

No.	Title	Author	Source	Volume	Issue	Page start	Page end	Article No.	Year	Impact-Factor	DOI	Open Access	HGF-Programme
1	Self-Assembly of Block Copolymers	Abetz, V	POLYMERS	12	4			794	2020	3.426	10.3390/polym12040794	Gold	AEM
2	Quo Vadis, Macromolecular Science? Reflections by the IUPAC Polymer Division on the Occasion of the Staudinger Centenary	Abetz, V; Chan, CH; Luscombe, CK; Matson, JB; Merna, J; Nakano, T; Raos, G; Russell, GT	ISRAEL JOURNAL OF CHEMISTRY	60	1-2	9	19		2020	2.320	10.1002/ijch.201900182	Green	AEM
3	Process-Related Changes in Polyetherimide Joined by Friction-Based Injection Clinching Joining (F-ICJ)	Abibe, AB; Sonogo, M; Canto, LB; dos Santos, JF; Amancio, ST	MATERIALS	13	5			1027	2020	3.057	10.3390/ma13051027	Gold	AEM
4	Single-shot femtosecond laser processing of Al-alloy surface: An interplay between Mbar shock waves, enhanced microhardness, residual stresses, and chemical modification	Ageev, EI; Andreeva, YM; Ionin, AA; Kashaev, NS; Kudryashov, SI; Nikonov, NV; Nuryev, RK; Petrov, AA; Rudenko, AA; Samokhvalov, AA; Saraeva, IN; Veiko, VP	OPTICS AND LASER TECHNOLOGY	126				106131	2020	3.233	10.1016/j.optlastec.2020.106131	Closed	AEM
5	Prediction of the mechanical and failure behavior of metal-composite hybrid joints using cohesive surfaces	Alessio R.P., Andre N.M., Goushegir S.M., dos Santos J.F., Mazzaferro J.A.E., Amancio-Filho S.T.	Materials Today Communications	24				101205	2020	2.678	10.1016/j.mtcomm.2020.101205	Hybrid	AEM
6	SI-ATRP Polymer-Functionalized Graphene Oxide for Water Vapor Separation	Aliyev, E; Shishatskiy, S; Abetz, C; Lee, YJ; Neumann, S; Emmler, T; Filiz, V	ADVANCED MATERIALS INTERFACES	7	19			2000443	2020	4.948	10.1002/admi.202000443	Hybrid / DEAL	AEM
7	Impact resistance of metal-composite hybrid joints produced by frictional heat	Andre, NM; dos Santos, JF; Amancio, ST	COMPOSITE STRUCTURES	233				111754	2020	5.138	10.1016/j.compstruct.2019.111754	Closed	AEM
8	Using the Emission of Muonic X-rays as a Spectroscopic Tool for the Investigation of the Local Chemistry of Elements	Aramini, M; Milanese, C; Hillier, AD; Girella, A; Horstmann, C; Klassen, T; Ishida, K; Dornheim, M; Pistidda, C	NANOMATERIALS	10	7			1260	2020	4.324	10.3390/nano10071260	Gold	AEM
9	The deal .II library, Version 9.2	Arndt, D; Bangerth, W; Blais, B; Clevenger, TC; Fehling, M; Grayver, AV; Heister, T; Heltai, L; Kronbichler, M; Maier, M; Munch, P; Pelteret, JP; Rastak, R; Tomas, I; Turcksin, B; Wang, ZR; Wells, D	JOURNAL OF NUMERICAL MATHEMATICS	28	3	131	146		2020	3,240	10.1515/jnma-2020-0043	Closed	AEM
10	High-pressure cell for in situ neutron studies of hydrogen storage materials	Aslan N., Horstmann C., Metz O., Kotlyar O., Dornheim M., Pistidda C., Busch S., Lohstroh W., Müller M., Pranzas K.	Journal of Neutron Research	21	3/4	125	135		2020	Scopus	10.3233/JNR-190116	Hybrid	AEM/MML
11	Broccoli: Sprinkling Lightweight Vocabulary Learning into Everyday Information Diets	Aydin, R; Klein, L; Miribel, A.; West, R.	The Web Conference			1344	1354	160505	2020	Scopus	10.1145/3366423.3380209	Closed	AEM

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12	Corrosion behaviour and cytocompatibility of selected binary magnesium-rare earth alloys	Azzeddine H., Hanna A., Dakhouche A., Luthringer-Feyerabend B.,	Journal of Magnesium and Alloys						2020	7.115	10.1016/j.jma.2020.09.003	Gold	AEM
13	Impact of rare-earth elements on the corrosion performance of binary magnesium alloys	Azzeddine H., Hanna A., Dakhouche A., Rabahi L., Scharnagl N., Dopita M., Brisset F., Helbert A.-L., Baudin T.	Journal of Alloys and Compounds	829				154569	2020	4.650	10.1016/j.jallcom.2020.154569	Closed	AEM
14	Mapping the geometry of Ti-6Al-4V: From martensite decomposition to localized spheroidization during selective laser melting	Barriobero-Vila, P.; Artzt, K.; Stark, A.; Schell, N.; Siggel, M.; Gussone, J.; Kleinert, J.; Kitsche, W.; Requena, G.; Haubrich, J	SCRIPTA MATERIALIA	182		48	52		2020	5.079	10.1016/j.scriptamat.2020.02.043	Closed	AEM/MML
15	An adaptive thermo-mechanical peridynamic model for fracture analysis in ceramics	Bazazzadeh, S.; Mossaiby, F.; Shojaei, A	ENGINEERING FRACTURE MECHANICS	223				106708	2020	3.426	10.1016/j.engfracmech.2019.106708	Closed	AEM
16	Fibrinogen and magnesium combination biomaterials modulate macrophage phenotype, NF- $\kappa$ B signaling and crosstalk with mesenchymal stem/stromal cells	Bessa-Gonçalves M., Silva A.M., Brás J.P., Helmholtz H., Luthringer-Feyerabend B.J.C., Willumeit-Römer R., Barbosa M.A., Santos S.G.	Acta Biomaterialia	114		471	484		2020	7.242	10.1016/j.actbio.2020.07.028	Closed	AEM
17	Predicting the interfacial heat transfer coefficient of cast Mg-Al alloys using Beck's inverse analysis	Bilal M.U., Hort N.	IOP Conference Series: Materials Science and Engineering	861	1			12027	2020	Scopus	10.1088/1757-899X/861/1/012027	Gold	AEM
18	Plasma electrolytic oxidation of zinc alloy in a phosphate-aluminate electrolyte	Blawert, C.; Karpushenkov, SA; Serdechnova, M.; Karpushenkava, LS; Zheludkevich, ML	APPLIED SURFACE SCIENCE	505				144552	2020	6.182	10.1016/j.apsusc.2019.144552	Hybrid	AEM
19	Mechanical performance prediction for friction riveting joints of dissimilar materials via machine learning	Bock F.E., Blaga L.A., Klusemann B.	Procedia Manufacturing	47		615	622		2020	Scopus	10.1016/j.promfg.2020.04189	Hybrid	AEM
20	Recrystallization Effects on the Forming Behaviour of Magnesium Alloy Sheets with Varied Calcium Concentration	Bohlen J., Trinh H.C., Rätzke K., Yi S., Letzig D.	Minerals, Metals and Materials Series			87	94		2020	Scopus	10.1007/978-3-030-36647-6_15	Closed	AEM
21	Alloying and Processing Effects on the Microstructure, Mechanical Properties, and Degradation Behavior of Extruded Magnesium Alloys Containing Calcium, Cerium, or Silver	Bohlen, J.; Meyer, S.; Wiese, B.; Luthringer-Feyerabend, B.J.C.; Willumeit-Römer, R.; Letzig, D	MATERIALS	13	2			391	2020	3.057	10.3390/ma13020391	Gold	AEM

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22	Quantitative and Chemically Intuitive Evaluation of the Nature of M-L Bonds in Paramagnetic Compounds: Application of EDA-NOCV Theory to Spin Crossover Complexes	Bondi L, Garden A.L., Jerabek P., Totti F., Brooker S.,	Chemistry - A European Journal	26	60	13677	13685		2020	Scopus	10.1002/chem.202002146	Hybrid	AEM
23	Mechanical integrity of friction-riveted joints for aircraft applications	Borba N.Z., Kötter B., Fiedler B., dos Santos J.F., Amancio-Filho S.T.	Composite Structures	232				111542	2020	5.138	10.1016/j.compstruct.2019.111542	Closed	AEM
24	Low-velocity impact response of friction riveted joints for aircraft application	Borba, N.Z.; Korbelen, J.; Fiedler, B.; dos Santos, J.F.; Amancio-Filho, S.T.	MATERIALS & DESIGN	186				108369	2020	6.289	10.1016/j.matdes.2019.108369	Gold	AEM
25	Layered double hydroxides (LDHs) as functional materials for the corrosion protection of aluminum alloys: A review	Bouali A, Serdechnova M, Blawert C, Tedim J, Ferreira MGS, Zheludkevich ML	Applied Materials Today	21				100857	2020	8,352	10.1016/j.apmt.2020.100857	Hybrid	AEM
26	Zn-Al LDH growth on AA2024 and zinc and their intercalation with chloride: Comparison of crystal structure and kinetics	Bouali, A.C.; Iuzviuk, M.H.; Serdechnova, M.; Yasakau, K.A.; Wieland, D.C.F.; Dovzhenko, G.; Maltanova, H.; Zobjkalo, I.A.; Ferreira, M.G.S.; Zheludkevich, M.L.	APPLIED SURFACE SCIENCE	501				144027	2020	6.182	10.1016/j.apsusc.2019.144027	Hybrid	AEM/MML
27	Giant electrochemical actuation in nanoporous silicon-polyppyrrrole hybrid material	Brinker, M; Dittrich G; Richert C.; Lakner P.; Krekeler, T.; Keller, T.F.; Huber N.; Huber, P.;	Science Advances	6	40			eaba1483	2020	13.117	10.1126/sciadv.aba1483	Gold	AEM
28	Spraying of Ultrathin Isoporous Block Copolymer Membranes—A Story about Challenges and Limitations	Bucher, T.; Clodt, J.; Abetz, C.; Bajer, B.; Filliz, V.	Membranes	10	12	404			2020	3.094	10.3390/membranes10120404	Gold	AEM
29	Catalytic Asymmetric Fluorination of Copper Carbene Complexes: Preparative Advances and a Mechanistic Rationale	Buchsteiner, M; Martinez-Rodriguez, L; Jerabek, P; Pozo, I; Patzer, M; Nothling, N; Lehmann, CW; Furstner, A	CHEMISTRY-A EUROPEAN JOURNAL	26	11	2509	2515		2020	4.857	10.1002/chem.202000081	Hybrid	AEM
30	Structure, processing and performance of ultra-high molecular weight polyethylene (IUPAC Technical Report). Part 1: characterizing molecular weight	Bucknall C., Altstädt V., Auhl D., Buckley P., Dijkstra D., Galeski A., Gögelein C., Handge U.A., He J., Liu C.-Y., Michler G., Piorkowska E., Slouf M., Vittorias I., Wu J.J.,	Pure and Applied Chemistry	92	9	1469	1483		2020	Scopus	10.1515/pac-2019-0405	Hybrid	AEM
31	Structure, processing and performance of ultra-high molecular weight polyethylene (IUPAC Technical Report). Part 2: crystallinity and supra molecular structure	Bucknall C., Altstädt V., Auhl D., Buckley P., Dijkstra D., Galeski A., Gögelein C., Handge U.A., He J., Liu C.-Y., Michler G., Piorkowska E., Slouf M., Vittorias I., Wu J.J.,	Pure and Applied Chemistry	92	9	1485	1501		2020	Scopus	10.1515/pac-2019-0403	Hybrid	AEM

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32	Structure, processing and performance of ultra-high molecular weight polyethylene (IUPAC Technical Report). Part 3: Deformation, wear and fracture	Bucknall C., Altstadt V., Auhl D., Buckley P., Dijkstra D., Galeski A., Gögelein C., Handge U.A., He J., Liu C.-Y., Michler G., Piorkowska E., Slouf M., Vittorias I., Wu J.J.,	Pure and Applied Chemistry	92	9	1503	1519		2020	Scopus	10.1515/pac-2019-0406	Hybrid	AEM
33	Structure, processing and performance of ultra-high molecular weight polyethylene (IUPAC Technical Report). Part 4: sporadic fatigue crack propagation	Bucknall, C; Altstadt, V; Auhl, D; Buckley, P; Dijkstra, D; Galeski, A; Gogelein, C; Handge, UA; He, JS; Liu, CY; Michler, G; Piorkowska, E; Slouf, M; Vittorias, I; Wu, JJ	PURE AND APPLIED CHEMISTRY	92	9	1521	1536		2020	1,919	10.1515/pac-2019-0408	Hybrid	AEM
34	Restoration Mechanisms at Moderate Temperatures for As-Cast ZK40 Magnesium Alloys Modified with Individual Ca and Gd Additions	Buzolin RH, Moreno Guimaraes LH, Ávila Díaz JA, Pereira da Silva E, Tolnai D, Mendis CL, Hort N, Cavalcanti Pinto H	Crystals	10				1140	2020	2,404	10.3390/cryst10121140	Gold	AEM
35	Thixomolded AZ91D and MR153M magnesium alloys and their enhanced corrosion resistance	Buzolin, RH; Volovitch, P; Maltseva, A; Lamaka, S; Blawert, C; Mendis, CL; Lohmuller, A; Kainer, KU; Hort, N	MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION	71	3	339	351		2020	1.533	10.1002/maco.201911327	Hybrid / DEAL	AEM
36	In si+C251:R252tu synchrotron radiation investigation of V2O5-Nb2O5 metastable compounds: transformational kinetics at high temperatures with a new structural solution for the orthorhombic V4Nb20O60 phase	Caggiu, L; Pistidda, C.; Farina, V; Senes, N; Cao H; Gavini, E; Mulas, G; Garroni, S; Enzo, S	Dalton Transactions	49	48	17584	17593		2020	4.174	10.1039/D0D03426F	Closed	AEM
37	Effect of Heat Treatment on the Corrosion Behavior of Mg-10Gd Alloy in 0.5% NaCl Solution	Campos, MDS; Blawert, C; Mendis, CL; Mohedano, M; Zimmermann, T; Proefrock, D; Zheludkevich, ML; Kainer, KU	FRONTIERS IN MATERIALS	7				84	2020	2.705	10.3389/fmats.2020.00084	Gold	AEM/PACES II
38	Load partition during hot deformation of AlSi12 and AlSi10Cu6Ni2 alloys: a quantitative evaluation of the stiffness of Si networks	Canelo-Yubero, D; Etlstorfer, C; Koos, R; Germann, H; Steffens, T; Stark, A; Boller, E; Requena, G	JOURNAL OF MATERIALS SCIENCE	55	29	14558	14570		2020	3.553	10.1007/s10853-020-05023-5	Closed	AEM/MML

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39	Effect of Ca and Nd on the microstructural development during dynamic and static recrystallization of indirectly extruded Mg-Zn based alloys	Cano-Castillo G., Victoria-Hernández J., Bohlen J., Letzig D., Kainer K.U.	Materials Science and Engineering A	793				139527	2020	4.652	10.1016/j.msea.2020.139527	Closed	AEM
40	Conversion of magnesium waste into a complex magnesium hydride system: Mg(NH <sub>2</sub> ) <sub>2</sub> -LiH	Cao, HJ; Pistidda, C; Riglos, MVC; Chaudhary, AL; Capurso, G; Tseng, JC; Puszkil, J; Wharmby, MT; Gemming, T; Chen, P; Klassen, T; Dornheim, M	SUSTAINABLE ENERGY & FUELS	4	4	1915	1923		2020	5.503	10.1039/c9se01284b	Closed	AEM
41	The stress corrosion cracking behaviour of biomedical Mg-IZn alloy in synthetic or natural biological media	Chen L., Blawert C., Yang J., Hou R., Wang X., Zheludkevich M.L., Li W.	Corrosion Science	175				108876	2020	6.479	10.1016/j.corsci.2020.108876	Closed	AEM
42	Active protection of Mg alloy by composite PEO coating loaded with corrosion inhibitors	Chen Y., Lu X., Lamaka S.V., Ju P., Blawert C., Zhang T., Wang F., Zheludkevich M.L.	Applied Surface Science	504				144462	2020	6.182	10.1016/j.apsusc.2019.144462	Closed	AEM
43	Thermal stability of tungsten based metamaterial emitter under medium vacuum and inert gas conditions	Chirumamilla M., Krishnamurthy G.V., Rout S.S., Ritter M., Störmer M., Petrov A.Y., Eich M.	Scientific Reports	10	1			3605	2020	3.998	10.1038/s41598-020-60419-2	Gold	AEM
44	Spectrally Selective Emitters Stable up to 1400°C for Thermophotovoltaic Applications	Chirumamilla M., Vaidhyanathan G., Knopp K., Krekeler T., Graf M., Jalias D., Ritter M., Stormer M., Petrov A.Y., Eich M.,	Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS		2020-May				2020	Scopus		Closed	AEM
45	Numerical investigation of the influence of FSW parameters on the heat and mass transfer of austenitic stainless steels	da Silva Y.C., Oliveira Júnior F.J.V., dos Santos J.F., Marcondes F., Silva C.	Welding in the World						2020	1.589	10.1007/s40194-020-00980-6	Closed	AEM
46	A modeling approach for the fatigue behavior of laser drilled micro perforated structural panels	Daandels D., Riekehr S., Kashaev N., Mardaras J., El Dine S.Z., Heck C.	Lecture Notes in Mechanical Engineering			73	87		2020	Scopus	10.1007/978-3-030-21503-3_6	Closed	AEM
47	Two-pass friction stir welding of clad API X65	de Lima Lessa C.R., Landell R.M., Bergmann L., dos Santos J.F., Kwietniewski C.E.F., Reguly A., Klusemann B.	Procedia Manufacturing	47		1010	1015		2020	Scopus	10.1016/j.promfg.2020.04311	Hybrid	AEM
48	Corrosion and discharge properties of Ca/Ge micro-alloyed Mg anodes for primary aqueous Mg batteries	Deng M., Wang L., Höche D., Lamaka S.V., Snihirova D., Jiang P., Zheludkevich M.L.	Corrosion Science	177				108958	2020	6.479	10.1016/j.corsci.2020.108958	Closed	AEM

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49	Chapter 12: Aqueous Mg Batteries	Deng, M.a, Höche, D.a,bEmail Author, Snihirova, D.a, Wang, L.a, Vaghefinazari, B.a, Lamaka, S.V.a, Zheludkevich, M.L.a,c	RSC Energy and Environment Series	2020-Jan	23	275	308		2020	Scopus	10.1039/9781788016407-00275	Closed	AEM
50	<b>Ca/in micro alloying as a novel strategy to simultaneously enhance power and energy density of primary Mg-air batteries from anode aspect</b>	<b>Deng, M; Wang, LQ; Hoche, D; Lamaka, SV; Jiang, PL; Snihirova, D; Scharnagl, N; Zheludkevich, ML</b>	<b>JOURNAL OF POWER SOURCES</b>	<b>472</b>				<b>228528</b>	<b>2020</b>	<b>8.247</b>	<b>10.1016/j.jpowsour.2020.0228528</b>	<b>Closed</b>	<b>AEM</b>
51	Production and Properties of Light Metal Matrix Nanocomposites	Dieringa, H	METALS	10	1			95	2020	2.117	10.3390/met10010095	Gold	AEM
52	A combined compression and indentation study of mechanical metamaterials based on inverse opal coatings	do Rosario, JJ; Hantsch, Y; Schneider, GA; Lilleodden, ET	ACTA MATERIALIA	195		98	108		2020	7.656	10.1016/j.actamat.2020.04.025	Hybrid	AEM
53	Effects of friction surfacing on the characteristics of consumable rods of Ti-6Al-4V	do Vale, N.; Fitseva, V., Hanke, S.; Filho, S.L.U.; dos Santos, J.F.	Materials Research	22				e201180888	2020	Scopus	10.1590/1980-5373-MR-2018-0888	Gold	AEM
54	Grain Size-Related Strengthening and Softening of a Precompressed and Heat-Treated Mg-Zn-Ca Alloy	Dobron, P; Drozdenko, D; Fekete, KH; Olejnak, J; Bohlen, J	MATERIALS	13	2			351	2020	3.057	10.3390/ma13020351	Gold	AEM
55	Study of Microstructural Development of Bainitic Steel using Eddy Current and Synchrotron XRD in-situ Measurement Techniques during Thermomechanical Treatment	Dong, J; Skalecki, MG; Hatwig, RA; Bevilaqua, WL; Stark, A; Epp, J; Rocha, AD; Zoch, HW	HTM- JOURNAL OF HEAT TREATMENT AND MATERIALS	75	1	3	21		2020	0	10.3139/105.110402	Closed	AEM/MML
56	Cost-affordable, high-performance Ti-TiB composite for selective laser melting additive manufacturing	Dong, YP; Li, YL; Ebel, T; Yan, M	JOURNAL OF MATERIALS RESEARCH	35	15	1922	1935		2020	2.502	10.1557/jmr.2019.389	Closed	AEM
57	Friction riveting of 3D printed polyamide 6 with AA 6056-T6	dos Santos Mallmann P.H., Blaga L.-A., dos Santos J.F., Klusemann B.	Procedia Manufacturing	47		406	412		2020	Scopus	10.1016/j.promfg.2020.04.319	Hybrid	AEM
58	Biodegradable Materials for Medical Applications II	Drelich, JW; Sikora- Jasinska, M; Mostaed, E; Liu, HN; Maier, P; Seitz, JM; Hort, N	JOM	72	5	1830	1832		2020	2.029	10.1007/s11837-020-04129-0	Closed	AEM
59	Twinning-Detwinning in Pre-Compressed and Thermally Treated ZX10 and ZN10 Alloys	Drozdenko D, Dobron P, Fekete K, Yi S, Bohlen J	Materials	13	24			5605	2020	3.057	10.3390/ma13245605	Gold	AEM
60	Characterization of carbides in Q&P steels using a combination of high-resolution methods	Ebner, S; Schnitzer, R; Suppan, C; Stark, A; Liu, HW; Hofer, C	MATERIALS CHARACTERIZATION	163				110242	2020	3.562	10.1016/j.matchar.2020.110242	Closed	AEM/MML

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61	Polymethacrylamide-An underrated and easily accessible upper critical solution temperature polymer: Green synthesis via photoiniferter reversible addition-fragmentation chain transfer polymerization and analysis of solution behavior in water/ethanol mixtures	Eckert, T; Abetz, V	JOURNAL OF POLYMER SCIENCE	58	21	3050	3060		2020	2.930	10.1002/pol.20200566	Hybrid / DEAL UHH?	AEM
62	Computer-Controlled Biaxial Bioreactor for Investigating Cell-Mediated Homeostasis in Tissue Equivalents	Eichinger, JF; Paukner, D; Szafron, JM; Aydin, RC; Humphrey, JD; Cyron, CJ	JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME	142	7				2020	1.947	10.1115/1.4046201	Green	AEM
63	On the influence of laser beam welding parameters for autogenous AA2198 welded joints	Examilioti T.N., Kashaev N., Enz J., Klusemann B., Alexopoulos N.D.	International Journal of Advanced Manufacturing Technology						2020	2.633	10.1007/s00170-020-05893-8	Closed	AEM
64	Correction: Falck, R. et al. Microstructure and Mechanical Performance of Additively Manufactured Aluminum 2024-T3/Acrylonitrile Butadiene Styrene Hybrid Joints by AddJoining Technique. Materials 2019, 12, 864	Falck, R.; dos Santos J.F.; Amancio S.T.	Materials	13	6			1460	2020	3.057	10.3390/ma13061460	Gold	AEM
65	In silico screening of modulators of magnesium dissolution	Falck, R.; Meier, D.; Vagstad, B.; Wargel, T.; Meissner, RH; Luthringer-Feyerabend, BJC; Winkler, DA; Zheludkevich, MI; Lamaka, SV	CORROSION SCIENCE	163				108245	2020	6.479	10.1016/j.corsci.2019.108245	Hybrid	AEM
66	An investigation of the ultrasonic joining process parameters effect on the mechanical properties of metal-composite hybrid joints	Feistauer, EE; dos Santos, JF; Amancio, ST	WELDING IN THE WORLD	64	9	1481	1495		2020	1.589	10.1007/s40194-020-00927-x	Hybrid	AEM
67	Hot deformation of Mg-Y-Zn alloy with a low content of the LPSO phase studied by in-situ synchrotron radiation diffraction	Fekete, KH; Drozdenko, D; Capek, J; Mathis, K; Tolnai, D; Stark, A; Garces, G; Dobron, P	JOURNAL OF MAGNESIUM AND ALLOYS	8	1	199	209		2020	7.115	10.1016/j.jma.2019.11.009	Gold	AEM/MML
68	<b>Charge Transfer in c-Si(n(++)/TiO2(ALD) at the Amorphous/Anatase Transition: A Transient Surface Photovoltage Spectroscopy Study</b>	<b>Fengler, S; Kriegl, H; Schieda, M; Gutzmann, H; Klassen, T; Wollgarten, M; Dittrich, T</b>	<b>ACS APPLIED MATERIALS &amp; INTERFACES</b>	<b>12</b>	<b>2</b>	<b>3140</b>	<b>3149</b>		<b>2020</b>	<b>8.758</b>	<b>10.1021/acsami.9b17592</b>	<b>Closed</b>	<b>AEM</b>

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69	Investigation of internal defects and premature fracture of dissimilar refill friction stir spot welds of AA5754 and AA6061	Ferreira, AC; Campanelli, LC; Suhuddin, UFH; de Alcantara, NG; dos Santos, JF	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	106	7-8	3523	3531		2020	2.633	10.1007/s00170-019-04819-3	Green	AEM
70	ATR-FTIR in Kretschmann configuration integrated with electrochemical cell as in situ interfacial sensitive tool to study corrosion inhibitors for magnesium substrates	Fockaert LI, Würger T, Unbehau R, Boelen B, Meißner RH, Lamaka SV, Zheludkevich ML, Terryn H, Mol JMC	Electrochimica Acta	345				136166	2020	6,215	10.1016/j.electacta.2020.136166	Hybrid	AEM
71	Probabilistic reliability assessment of a component in the presence of internal defects	Fomin F., Kashaev N.	Lecture Notes in Mechanical Engineering			488	502		2020	Scopus	10.1007/978-3-030-21503-3_39	Closed	AEM
72	On the formation of temperature-induced defects at the surface of TEM specimens prepared from TiAl using high-energy Gallium and low-energy Argon ions	Fröbel, U.; Laipple, D.	PHILOSOPHICAL MAGAZINE	100	15	1915	1941		2020	1.778	10.1080/14786435.2020.1748245	Green	AEM/MML
73	Microstructure by design: An approach of grain refinement and isotropy improvement in multi-layer wire-based laser metal deposition	Froend, M; Ventzke, V; Dorn, F; Kashaev, N; Klusemann, B; Enz, J	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	772				138635	2020	4.652	10.1016/j.msea.2019.138635	Hybrid	AEM
74	Mechanical behaviors of novel multiple principal elements CuAl10Fe5Ni5Mn1.2 wt% with micro-nano structures	Fu, YB; Huang, YD; Liu, ZZ; Guo, RQ; Li, SF	JOURNAL OF ALLOYS AND COMPOUNDS	843				155993	2020	4.650	10.1016/j.jallcom.2020.155993	Closed	AEM
75	Front induced transitions in slow light and dispersive waveguides	Gaafar M.A., Baba T., Eich M., Petrov A.Y.	Proceedings of SPIE - The International Society for Optical Engineering	11296				1129620	2020	Scopus	10.1117/12.2540476	Closed	AEM
76	Pulse time reversal and stopping by a refractive index front	Gaafar, MA; Holtorf, J; Eich, M; Petrov, AY	APL PHOTONICS	5	8			80801	2020	4.864	10.1063/5.0007986	Gold	AEM



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77	Optical reflection from a free carrier-induced front in a slow light waveguide	Gaafar, MA; Jalas, D; O'Faolain, L; Li, JT; Krauss, TF; Petrov, AY; Eich, M	SILICON PHOTONICS XV	11285				112850R	2020	Proceeding	10.1117/12.2540480	Closed	AEM
78	Dual application of Ti-catalyzed Li-RHC composite for H-2 purification and CO methanation	Gamba NS, Puzskiel J, Larochette PA, Gennari FC	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	45	38	19493	19504		2020	4.469	10.1016/j.ijhydene.2020.05.023		AEM
79	Improved corrosion response of squeeze-cast SiC nanoparticles reinforced AZ91-2.0Ca-0.3Sb alloy	Ganguly, S; Mondal, AK; Sarkar, S; Basu, A; Kumar, S; Blawert, C	CORROSION SCIENCE	166				108444	2020	6.479	10.1016/j.corsci.2020.108444	Closed	AEM
80	Anisotropic Plastic Behavior in an Extruded Long-Period Ordered Structure Mg90Y6.5Ni3.5 (at.%) Alloy	Garces, G; Barea, R; Stark, A; Schell, N	CRYSTALS	10	4			279	2020	2.404	10.3390/cryst10040279	Gold	AEM/MML
81	Initial plasticity stages in Mg alloys containing Long-Period Stacking Ordered phases using High Resolution Digital Image Correlation (HRDIC) and in-situ synchrotron radiation	Garces, G; Orozco-Caballero, A; da Fonseca, JQ; Perez, P; Medina, J; Stark, A; Schell, N; Adeva, P	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	772				138716	2020	4.652	10.1016/j.msea.2019.138716	Closed	AEM/MML
82	Investigation and Modelling of the Influence of Cooling Rates on the Microstructure of AZ91 Alloys	Gavras S., Bilal M.U., Tolnai D., Hort N.	Minerals, Metals and Materials Series			281	287		2020	Scopus	10.1007/978-3-030-36647-6_42	Closed	AEM
83	HRTEM analysis of the high-temperature phases of the newly developed high-temperature Ni-base superalloy VDM 780 Premium	Ghica C., Solís C., Munke J., Stark A., Gehrmann B., Bergner M., Rösler J., Gilles R.	Journal of Alloys and Compounds	814				152157	2020	4.650	10.1016/j.jallcom.2019.152157	Closed	AEM/MML
84	Improved kinetic behaviour of Mg(NH2)(2)-2LiH doped with nanostructured K-modified-LixTiyOz for hydrogen storage	Gizer, G; Puzskiel, J; Riglos, MVC; Pistidda, C; Ramallo-Lopez, JM; Mizrahi, M; Santoru, A; Gemming, T; Tseng, JC; Klassen, T; Dornheim, M	SCIENTIFIC REPORTS	10	1			8	2020	3.998	10.1038/s41598-019-55770-y	Gold	AEM
85	Optimizing an Osteosarcoma-Fibroblast Coculture Model to Study Antitumoral Activity of Magnesium-Based Biomaterials	Globig, P; Willumeit-Romer, R; Martini, F; Mazzoni, E; Luthringer-Feyerabend, BJC	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	21	14			5099	2020	4.556	10.3390/ijms21145099	Gold	AEM
86	Processing of Highly Filled Polymer-Metal Feedstocks for Fused Filament Fabrication and the Production of Metallic Implants	Gloeckle, C.; Konkol, T.; Jacobs, O.; Limberg, W.; Ebel, T.; Handge, U.	Materials	13	19			4413	2020	3.057	10.3390/ma13194413	Gold	AEM

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87	Magnetic Properties of La(0.9)A(0.1)MnO(3) (A: Li, Na, K) Nanopowders and Nanoceramics	Gluchowski, P; Nikonkov, R; Tomala, R; Streck, W; Shulha, T; Serdechnova, M; Zheludkevich, M; Pakalaniskis, A; Skaudzius, R; Kareiva, A; Abramov, A; Kholkin, A; Bushinsky, MV; Karpinsky, D	MATERIALS	13	7			1788	2020	3.057	10.3390/ma13071788	Gold	AEM
88	Electrochemical behaviour of the MA8 Mg alloy in minimum essential medium	Gnedenkov, AS; Lamaka, SV; Sinebryukhov, SL; Mashtalyar, DV; Egorkin, VS; Imshinetskiy, IM; Zavidnaya, AG; Zheludkevich, ML; Gnedenkov, SV	CORROSION SCIENCE	168				108552	2020	6.479	10.1016/j.corsci.2020.108552	Closed	AEM
89	Localized currents and pH distribution studied during corrosion of MA8 Mg alloy in the cell culture medium	Gnedenkov, AS; Mei, D; Lamaka, SV; Sinebryukhov, SL; Mashtalyar, DV; Vyalyi, IE; Zheludkevich, ML; Gnedenkov, SV	CORROSION SCIENCE	170				108689	2020	6.479	10.1016/j.corsci.2020.108689	Closed	AEM
90	Solution Structure of the Detergent-Photosystem II Core Complex Investigated by Small-Angle Scattering Techniques	Golub, M.; Hussein, R.; Ibrahim, M.; Hecht, M.; Wieland, D.C.F.; Martel, A.; Machado, B.; Zouni, A.; Pieper, J.	JOURNAL OF PHYSICAL CHEMISTRY	124	39	8583	8592		2020	2.857	10.1021/acs.jpcc.0c07169	Closed	AEM/MML
91	A zone melting device for the in situ observation of directional solidification using high-energy synchrotron x rays	Gombola, C; G. Hasemann, A. Kauffmann, I. Sprenger, S. Laube, A. Schmitt, F. Gang, V. Bolbut, M. Oehring, M. Blankenburg, N. Schell, P. Staron, F. Pyczak, M. Krüger, M. Heilmaier	Review of Scientific Instruments	91	9			93901	2020	1.480	10.1063/5.0019020	Green	AEM/MML
92	Use of ZnAl-Layered Double Hydroxide (LDH) to Extend the Service Life of Reinforced Concrete	Gomes, C; Mir, Z; Sampaio, R; Bastos, A; Tedim, J; Maia, F; Rocha, C; Ferreira, M	MATERIALS	13	7			1769	2020	3.057	10.3390/ma13071769	Gold	AEM
93	Durability of Metal-Composite Friction Spot Joints under Environmental Conditions	Goushegir, SM; Scharnagl, N; dos Santos, JF; Amancio, ST	MATERIALS	13	5			1144	2020	3.057	10.3390/ma13051144	Gold	AEM
94	CO2 reactivity with Mg2NiH4 synthesized by in situ monitoring of mechanical milling	Grasso, ML; Puzkiel, J; Gennari, FC; Santoru, A; Dornheim, M; Pistidda, C	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	22	4	1944	1952		2020	3.430	10.1039/c9cp05697a	Closed	AEM
95	Production of aluminum AA7075/6060 compounds by die casting and hot extrusion	Gres, T; Mittler, T; Chen, H; Stahl, J; Schmid, S; Ben Khalifa, N; Volk, W	JOURNAL OF MATERIALS PROCESSING TECHNOLOGY	280				116594	2020	4.669	10.1016/j.jmatprotec.2020.116594	Closed	AEM

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96	Hydrophilic poly(phenylene sulfone) membranes for ultrafiltration	Gronwald, O; Frost, I; Ulbricht, M; Shalmani, AK; Panglisch, S; Grunig, L; Handge, UA; Abetz, V; Heijnen, M; Weber, M	SEPARATION AND PURIFICATION TECHNOLOGY	250				117107	2020	5.774	10.1016/j.seppur.2020.117107	Closed	AEM
97	Hydrophilic Dual Layer Hollow Fiber Membranes for Ultrafiltration	Grunig, L; Handge, UA; Koll, J; Gronwald, O; Weber, M; Hankiewicz, B; Scharnagl, N; Abetz, V	MEMBRANES	10	7			143	2020	3.094	10.3390/membranes10070143	Gold	AEM
98	Ultrafine eutectic Ti-Fe-based alloys processed by additive manufacturing – A new candidate for high temperature applications	Gussone J., Bugelnig K., Barriobero-Vila P., da Silva J.C., Hecht U., Dresbach C., Sket F., Cloetens P., Stark A., Schell N., Haubrich J., Requena G.	Applied Materials Today	20				100767	2020	8.352	10.1016/j.apmt.2020.100767	Hybrid	AEM/MML
99	A Review of the MSCA ITN ECOSTORE- Novel Complex Metal Hydrides for Efficient and Compact Storage of Renewable Energy as Hydrogen and Electricity	Hadjixenophontos, E; Dematteis, EM; Berti, N; Wolczyk, AR; Huen, P; Brighi, M; Le, TT; Santoru, A; Payandeh, S; Peru, F; Dao, AH; Liu, YZ; Heere, M	INORGANICS	8	3			17	2020	Review	10.3390/inorganics8030017	Gold	AEM
100	Thermally Driven Ag-Au Compositional Changes at the Ligament Surface in Nanoporous Gold: Implications for Electrocatalytic Applications	Haensch, M; Graf, M; Wang, WJ; Nefedov, A; Woll, C; Weissmuller, J; Wittstock, G	ACS APPLIED NANO MATERIALS	3	3	2197	2206		2020	0	10.1021/acsanm.9b02279	Closed	AEM
101	Acid-Mediated Autocatalysis in Vinylogous Urethane Vitrimers	Haida, P; Abetz, V	MACROMOLECULAR RAPID COMMUNICATIONS	41	16			2000273	2020	4.886	10.1002/marc.202000273	Hybrid / DEAL UHH?	AEM
102	Fabrication of membranes of polyethersulfone and poly(N-vinyl pyrrolidone): influence of glycerol on processing and transport properties	Handge, UA; Gronwald, O; Weber, M; Koll, J; Abetz, C; Hankiewicz, B; Abetz, V	POLYMER INTERNATIONAL	69	5	502	512		2020	2.574	10.1002/pi.5984	Hybrid / DEAL	AEM
103	Effect of laser surface treatment on the adhesive properties of bonded CFRP joints	Harder S., Goralski P., Scharnagl N., Hergoss P., Schmutzler H., Fiedler B.	ECCM 2018 – 18th European Conference on Composite Materials						2020	Scopus		Closed	AEM
104	Dynamics of porous and amorphous magnesium borohydride to understand solid state Mg-ion-conductors	Heere, M; Hansen, AL; Payandeh, S; Aslan, N; Gizer, G; Sorby, MH; Hauback, BC; Pistidda, C; Dornheim, M; Lohstroh, W	SCIENTIFIC REPORTS	10	1			9080	2020	3.998	10.1038/s41598-020-65857-6	Gold	AEM/MML

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105	Phase separation and up-hill diffusion in the ordered alpha2 compound of a gamma-Ti-Al-Nb alloy	Heike Gabrisch, Tobias Krekeler, Uwe Lorenz, Marcus Willi Rackel, Martin Ritter, Florian Pyczak, Andreas Stark	MATEC Web of Conferences	321				12041	2020	Conferece Paper	10.1051/mateconf/202032112041	Gold	AEM
106	On the microscopic origin of the cryoprotective effect in lysine solutions	Henao, A; Ruiz, GN; Steinke, N; Cervený, S; Macovez, R; Guardia, E; Busch, S; McLain, SE; Lorenz, CD; Pardo, LC	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	22	13	6919	6927		2020	3.430	10.1039/c9cp06192d	Closed	AEM/MML
107	Diffusion-driven microstructure evolution in OpenCalphad	Herrnring, J; Sundman, B; Klusemann, B	COMPUTATIONAL MATERIALS SCIENCE	175				109236	2020	2.863	10.1016/j.commatsci.2019.109236	Hybrid	AEM
108	Materials for hydrogen-based energy storage - past, recent progress and future outlook	Hirscher, M; Yartys, VA; Baricco, M; von Colbe, JB; Blanchard, D; Bowman, RC; Broom, DP; Buckley, CE; Chang, F; Chen, P; Cho, YW; Crivello, JC; Cuevas, F; David, WIF; de Jongh, PE; Denys, RV; Dornheim, M; Felderhoff, M; Filinchuk, Y; Froudakis, GE; Grant, DM; Gray, EM; Hauback, BC; He, T; Humphries, TD; Jensen, TR; Kim, S; Kojima, Y; Latroche, M; Li, HW; Lototskyy, MV; Makepeace, JW; Moller, KT; Naheed, L; Ngene, P; Noreus, D; Nygard, MM; Orimo, St; Paskevicius, M; Pasquini, L; Ravnsbaek, DB; Sofianos, MV; Udovic, TJ; Vegge, T; Walker, GS; Webb, CJ; Weidenthaler, C; Zlotea, C	JOURNAL OF ALLOYS AND COMPOUNDS	827				153548	2020	4.650	10.1016/j.jallcom.2019.153548	Hybrid	AEM
109	Corrosion inhibition of pre-formed mussel adhesive protein (Mefp-1) film to magnesium alloy	Hou, RQ; Zhang, F; Jiang, PL; Dong, SG; Pan, JS; Lin, CJ	CORROSION SCIENCE	164				108309	2020	6.479	10.1016/j.corsci.2019.108309	Closed	AEM
110	Comment to "Skeletonization-based beam finite element models for stochastic bicontinuous materials: Application to simulations of nanoporous gold" by C. Soyarslan et al. [J. Mater. Res. 33(20), 3371 (2018)]	Huber, N.; Richert, C.	JOURNAL OF MATERIALS RESEARCH	35	20	2831	2834		2020	2.502	10.1557/jmr.2020.257	Green	AEM
111	Editorial: Machine Learning and Data Mining in Materials Science	Huber, N; Kalidindi, SR; Klusemann, B; Cyron, CJ	FRONTIERS IN MATERIALS	7				51	2020	2.705	10.3389/fmats.2020.00051	Gold	AEM

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112	In situ kinetics studies of Zn-Al LDH intercalation with corrosion related species	Iuzviuk, MH; Bouali, AC; Serdechnova, M; Yasakau, KA; Wieland, DCF; Dovzhenko, G; Mikhailau, A; Blawert, C; Zobkalo, IA; Ferreira, MGS; Zheludkevich, ML	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	22	31	17574	17586		2020	3.430	10.1039/d0cp01765e	Closed	AEM/MML
113	Rearrangements of dislocations during continuous heating of deformed beta-TiNb alloy observed by in-situ synchrotron X-ray diffraction	Ivanov, IV; Emurlaev, KI; Lazurenko, DV; Stark, A; Bataev, IA	MATERIALS CHARACTERIZATION	166				110403	2020	3.562	10.1016/j.matchar.2020.110403	Closed	AEM/MML
114	Application of Different Diffraction Peak Profile Analysis Methods to Study the Structure Evolution of Cold-Rolled Hexagonal alpha-Titanium	Ivanov, IV; Lazurenko, DV; Stark, A; Pyczak, F; Thommes, A; Bataev, IA	METALS AND MATERIALS INTERNATIONAL	26	1	83	93		2020	1.990	10.1007/s12540-019-00309-z	Closed	AEM/MML
115	Investigation of Local Conduction Mechanisms in Ca and Ti-Doped BiFeO <sub>3</sub> Using Scanning Probe Microscopy Approach	Ivanov, MS; Khomchenko, VA; Silibin, MV; Karpinsky, DV; Blawert, C; Serdechnova, M; Paixao, JA	NANOMATERIALS	10	5			940	2020	4.324	10.3390/nano10050940	Gold	AEM
116	Microstructural evolution and thermal stability of AlCr(Si)N hard coatings revealed by in-situ high-temperature high-energy grazing incidence transmission X-ray diffraction	Jäger, N; Meindlumer, M; Spor, S; Hruby, H; Julin, J; Stark, A; Nahif, F; Keckes, J; Mitterer, C; Daniel, R	ACTA MATERIALIA	186		545	554		2020	7.656	10.1016/j.actamat.2020.01.026	Closed	AEM/MML
117	Evolution of PEO coatings on AM50 magnesium alloy using phosphate-based electrolyte with and without glycerol and its electrochemical characterization	Jangde A., Kumar S., Blawert C.	Journal of Magnesium and Alloys	8	3	692	715		2020	7.115	10.1016/j.jma.2020.05.002	Gold	AEM
118	Modelling-assisted description of anisotropic edge failure in magnesium sheet alloy under mixed-mode loading	Jeong, Y; Steglich, D	INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES	181				105680	2020	4.631	10.1016/j.ijmecsci.2020.105680	Closed	AEM
119	Corrosion performance, corrosion fatigue behavior and mechanical integrity of an extruded Mg <sub>4</sub> Zn <sub>0.2</sub> Sn alloy	Jiang P., Blawert C., Bohlen J., Zheludkevich M.L.	Journal of Materials Science and Technology	59		107	116		2020	6.155	10.1016/j.jmst.2020.04.042	Closed	AEM

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120	Mechanistic understanding of the corrosion behavior of Mg <sub>4</sub> Zn <sub>0.2</sub> Sn alloys: From the perspective view of microstructure	Jiang P., Blawert C., Scharnagl N., Bohlen J., Zheludkevich M.L.	Corrosion Science	174				108863	2020	6.479	10.1016/j.corsci.2020.108863	Closed	AEM
121	A comprehensive comparison of the corrosion performance, fatigue behavior and mechanical properties of micro-alloyed MgZnCa and MgZnGe alloys	Jiang, PL; Blawert, C; Hou, RQ; Bohlen, J; Konchakova, N; Zheludkevich, ML	MATERIALS & DESIGN	185				108285	2020	6.289	10.1016/j.matdes.2019.108285	Gold	AEM
122	Microstructure–corrosion behaviour relationship of micro–alloyed Mg–0.5Zn alloy with the addition of Ca, Sr, Ag, In and Cu	Jin Y., Blawert C., Yang H., Wiese B., Feyerabend F., Bohlen J., Mei D., Deng M., Campos M.S., Scharnagl N., Strecker K., Bode J., Vogt C., Willumeit-Römer R.	Materials and Design	195				108980	2020	6.289	10.1016/j.matdes.2020.108980	Gold	AEM
123	Excellent age hardenability with the controllable microstructure of AXW100 magnesium sheet alloy	Jo S, Whitmore L, Woo S, Aramburu AU, Letzig D, Yi S	Scientific Reports	10	1			22413	2020	3,998	10.1038/s41598-020-79390-z	Gold	AEM
124	Thermo-physical properties of coatings in the Ti(B,N) system grown by chemical vapor deposition	Kainz, C; Schalk, N; Tkadletz, M; Saringer, C; Winkler, M; Stark, A; Schell, N; Julin, J; Czettl, C	SURFACE & COATINGS TECHNOLOGY	384				125318	2020	3.784	10.1016/j.surfcoat.2019.125318	Closed	AEM/MML
125	Experimentally established correlation of friction surfacing process temperature and deposit geometry	Kallien, Z; Rath, L; Roos, A; Klusemann, B	SURFACE & COATINGS TECHNOLOGY	397				126040	2020	3.784	10.1016/j.surfcoat.2020.126040	Hybrid	AEM
126	Peculiarities of the Crystal Structure Evolution of BiFeO <sub>3</sub> -BaTiO <sub>3</sub> Ceramics across Structural Phase Transitions	Karpinsky, DV; Silibin, MV; Trukhanov, SV; Trukhanov, AV; Zhaludkevich, AL; Latushka, SI; Zhaludkevich, DV; Khomchenko, VA; Alikin, DO; Abramov, AS; Maniecki, T; Maniukiewicz, W; Wolff, M; Heitmann, V; Kholkin, AL	NANOMATERIALS	10	4			801	2020	4.324	10.3390/nano10040801	Gold	AEM
127	Effect of laser heating on mechanical properties, residual stresses and retardation of fatigue crack growth in AA2024	Kashaev, N; Groth, A.; Ventske, V.; Horstmann, M.; Riekehr, S.; Statron. P.; Huber, M.	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	44	4	887	900		2020	3.031	10.1111/ffe.13400	Hybrid / DEAL	AEM
128	On the application of laser shock peening for retardation of surface fatigue cracks in laser beam-welded AA6056	Kashaev, N; Ushmaev, D; Ventske, V; Klusemann, B; Fomin, F	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	43	7	1500	1513		2020	3.031	10.1111/ffe.13226	Hybrid / DEAL	AEM

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129	Fatigue crack propagation influenced by laser shock peening introduced residual stress fields in aluminium specimens	Keller S., Horstmann M., Kashaev N., Klusemann B.	Lecture Notes in Mechanical Engineering			617	631		2020	Scopus	10.1007/978-3-030-21503-3_50	Closed	AEM
130	Determination of Temperature-Dependent Elastic Constants of Steel AISI 4140 by Use of In Situ X-ray Dilatometry Experiments	Kiefer, D; Gibmeier, J; Stark, A	MATERIALS	13	10			2378	2020	3.057	10.3390/ma13102378	Gold	AEM/MML
131	Self-assembled layers for the temporary corrosion protection of magnesium-AZ31 alloy	Korrapati, VK; Scharnagl, N; Letzig, D; Zheludkevich, ML	CORROSION SCIENCE	169				108619	2020	6.479	10.1016/j.corsci.2020.108619	Closed	AEM
132	Chemical and photoelectrochemical instability of amorphous TiO <sub>2</sub> layers quantified by spectroscopic ellipsometry	Kriegel H., Kollmann J., Raudsepp R., Klassen T., Schieda M.,	Journal of Materials Chemistry A	8	35	18173	18179		2020	Scopus	10.1039/d0ta04878j	Hybrid	AEM
133	Variation of Extrusion Process Parameter for the Magnesium Alloy ME21	Kurz G., Nienaber M., Bohlen J., Letzig D., Kainer K.U.	Minerals, Metals and Materials Series			181	188		2020	Scopus	10.1007/978-3-030-36647-6_29	Closed	AEM
134	An Eco-Friendly Pathway to Thermosensitive Micellar Nanoobjects via photoRAFT PISA: The Full Guide to Poly(N-Acryloylpyrrolidin)-block-Polystyrene Diblock Copolymers	Lauterbach, F.; Abetz, V.	Macromolecular Rapid Communications	41	9			2000029	2020	4.886	10.1039/C9SM02483B	Hybrid	AEM
135	Continuous Kinetic Sampling of Flow Polymerizations via Inline UV-Vis Spectroscopy	Lauterbach, F; Abetz, V	MACROMOLECULAR RAPID COMMUNICATIONS	41	9			2000029	2020	4.886	10.1002/marc.202000029	Hybrid / DEAL	AEM
136	Influence of the Ti/Al/Nb ratio on the structure and properties on intermetallic layers obtained on titanium by non-vacuum electron beam cladding	Lazurenko, DV; Laptev, IS; Golkovsky, MG; Stark, A; Paul, J; Bataev, I; Ruktuev, AA; Song, L; Gollwitzer, C; Pyczak, F	MATERIALS CHARACTERIZATION	163				110246	2020	3.562	10.1016/j.matchar.2020.110246	Closed	AEM/MML
137	Enhanced Stability of Li-RHC Embedded in an Adaptive TPX (TM) Polymer Scaffold	Le, TT; Pistidda, C; Abetz, C; Georgopoulos, P; Garroni, S; Capurso, G; Milanese, C; Puszkil, J; Dornheim, M; Abetz, V; Klassen, T	MATERIALS	13	4			991	2020	3.057	10.3390/ma13040991	Gold	AEM

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138	In situ development and high temperature features of CoCrFeNi-M6 Cp high entropy-alloy based hardmetal	Li H., Lin H., Liang X., He W., Liu B., Liu Y., Wang L.	Metals	10	3			408	2020	2.117	10.3390/met10030408	Gold	AEM
139	Ultra-thin and ultra-strong organic interphase in nanocomposites with supercrystalline particle arrangement: Mechanical behavior identification via multiscale numerical modeling	Li M., Scheider I., Bor B., Domènech B., Schneider G.A., Giuntini D.	Composites Science and Technology	198				108283	2020	7.094	10.1016/j.compscitech.2020.108283	Hybrid	AEM
140	The influence of heat treatment processing on microstructure and mechanical properties of Ti-24Nb-4Zr-8Sn alloy by powder metallurgy	Li X., Zhou Y., Ebel T., Liu L., Shen X., Yu P.	Materialia	13				100803	2020	Scopus	10.1016/j.mtla.2020.100803	Closed	AEM
141	Effects of multiaxial forging on microstructure and high temperature mechanical properties of powder metallurgy Ti-45Al-7Nb-0.3W alloy	Li, HZ; Long, Y; Liang, XP; Che, YX; Liu, ZQ; Liu, Y; Xu, H; Wang, L	INTERMETALLICS	116				106647	2020	3.398	10.1016/j.intermet.2019.106647	Closed	AEM
142	Datasets for the microstructure of nanoscale metal network structures and for its evolution during coarsening	Li, Y; Ngo, BND; Markmann, J; Weissmuller, J	DATA IN BRIEF	29				105030	2020	0	10.1016/j.dib.2019.105030	Gold	AEM
143	Temperature dependence of misfit in different Co-Al-W ternary alloys measured by synchrotron X-ray diffraction	Li, YZ; Pyczak, F; Stark, A; Wang, L; Oehring, M; Paul, J; Lorenz, U	JOURNAL OF ALLOYS AND COMPOUNDS	819				152940	2020	4.650	10.1016/j.jallcom.2019.152940	Closed	AEM/MML
144	Microstructure and elevated-temperature mechanical properties of in situ Ti2AlNb-reinforced TiAl-matrix composite prepared by powder metallurgy	Liang X., Liu Z., Li H., Chen F., Yang W., Ouyang S., Liu Y., Wang L.	Materials Today Communications	24				101179	2020	2.678	10.1016/j.mtcomm.2020.101179	Closed	AEM
145	Metal injection moulding (MIM) of Ti-6Al-4V HDH-powder with high oxygen content, achieving high strength and high ductility by addition of yttrium	Limberg W., Willumeit-Römer R., Pyczak F., Ebel T.	Euro PM 2018 Congress and Exhibition						2020	Scopus		Closed	AEM



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146	Microstructure, wear and corrosion performance of plasma electrolytic oxidation coatings formed on DI6T Al alloy	Liu W.-Y., Liu Y., Blawert C., Zheludkevich M.-L., Fan C.-L., Talha M., Lin Y.-H.,	Rare Metals	39		1425	1439		2020	Scopus	10.1007/s12598-020-01523-0	Closed	AEM
147	Corrosion and Wear Behavior of PEO Coatings on DI6T Aluminum Alloy with Different Concentrations of Graphene	Liu, WY; Pu, Y; Liao, HC; Lin, YH; He, WY	COATINGS	10	3			249	2020	2.436	10.3390/coatings10030249	Gold	AEM
148	Additively manufactured biomedical Ti-Nb-Ta-Zr lattices with tunable Young's modulus: Mechanical property, biocompatibility, and proteomics analysis	Luo J.P., Huang Y.J., Xu J.Y., Sun J.F., Dargusch M.S., Hou C.H., Ren L., Wang R.Z., Ebel T., Yan M.	Materials Science and Engineering C	114				110903	2020	5.880	10.1016/j.msec.2020.110903	Closed	AEM
149	Formation mechanism of the abnormal texture during extrusion in Mg-Y-Sm-Zn-Zr alloy	Lyu, SY; Xiao, WL; Li, GD; Xia, DB; Huang, YD; Gavras, S; Hort, N; Zheng, RX; Ma, CL	JOURNAL OF ALLOYS AND COMPOUNDS	821				153477	2020	4.650	10.1016/j.jallcom.2019.153477	Closed	AEM
150	On the Influence of Twinning and Detwinning on the Deformation of Mg at the Micron Scale	Maghsoudi M., Kim G., Ziehmer M., Lilleodden E.T.	Minerals, Metals and Materials Series			355	359		2020	Scopus	10.1007/978-3-030-36647-6_53	Closed	AEM
151	Detwinning-mediated hardening in Mg: A microcompression study of a single twin boundary	Maghsoudi, M; Ziehmer, M; Lilleodden, ET	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	772				138747	2020	4.652	10.1016/j.msea.2019.138747	Closed	AEM
152	Front induced transitions: refractive index fronts in dispersive waveguides	Mahmoud A. Gaafar, Hagen Renner, Toshihiko Baba, Manfred Eich, and Alexander Yu. Petrov	Proc. SPIE 11358, Nonlinear Optics and its Applications 2020					113581H	2020	Scopus	10.1117/12.2555751	Closed	AEM
153	Optical push broom in a silicon waveguide	Mahmoud A. Gaafar, He Li, Xinlun Cai, Juntao Li, Manfred Eich, Alexander Yu. Petrov	Proc. SPIE 11358, Nonlinear Optics and its Applications 2020					113580D	2020	Scopus	10.1117/12.2555758	Closed	AEM
154	Magnesium alloys for biomedical applications	Maier P., Hort N.,	Metals		10	1328			2020	Scopus	10.3390/met10101328	Gold	AEM

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155	Characterization of an Extruded Mg-Dy-Nd Alloy during Stress Corrosion with C-Ring Tests	Maier, P; Clausius, B; Wicke, J; Hort, N	METALS	10	5			584	2020	2.117	10.3390/met10050584	Gold	AEM
156	Influence of Solution Heat Treatment on the Microstructure, Hardness and Stress Corrosion Behavior of Extruded Resoloy (R)	Maier, P; Steinacker, A; Clausius, B; Hort, N	JOM	72	5	1870	1879		2020	2.029	10.1007/s11837-020-04077-9	Hybrid	AEM
157	In situ surface film evolution during Mg aqueous corrosion in presence of selected carboxylates	Maltseva, A; Lamaka, SV; Yasakau, KA; Mei, D; Kurchavov, D; Zheludkevich, ML; Lefevre, G; Volovitch, P	CORROSION SCIENCE	171				108484	2020	6.479	10.1016/j.corsci.2020.108484	Closed	AEM
158	Microstructure and Corrosion Characterization of a MgO/Hydroxyapatite Bilayer Coating by Plasma Electrolytic Oxidation Coupled with Flame Spraying on a Mg Alloy	Mardali M., Salimijazi H., Karimzadeh F., Blawert C., Luthringer-Feyerabend B.J.C., Fazel M., Safarballi B.,	ACS Omega	5	38	24186	24194		2020	Scopus	10.1021/acsomega.0c01574	Gold	AEM
159	High temperature mechanical behaviour of Mg-6Zn-1Y alloy with 1 wt.% calcium addition: Reinforcing effect due to L-(Mg3Zn6Y1) and Mg6Zn3Ca2 phases	Medina J., Garces G., Pérez P., Stark A., Schell N., Adeva P.,	Journal of Magnesium and Alloys	8	4	1047	1060		2020	7.115	10.1016/j.jma.2020.08.007	Gold	AEM/MML
160	Clarifying the influence of albumin on the initial stages of magnesium corrosion in Hank's balanced salt solution	Mei D., Wang C., Lamaka S.V., Zheludkevich M.L.	Journal of Magnesium and Alloys						2020	7.115	10.1016/j.jma.2020.07.002	Gold	AEM
161	Selecting medium for corrosion testing of bioabsorbable magnesium and other metals - A critical review	Mei, D; Lamaka, SV; Lu, XP; Zheludkevich, ML	CORROSION SCIENCE	171				108722	2020	6.479	10.1016/j.corsci.2020.108722	Hybrid	AEM
162	Effects of Ca addition on the microstructures and mechanical properties of as-extruded Mg-Bi alloys	Meng, SJ; Yu, H; Li, LC; Qin, JN; Woo, SK; Go, Y; Kim, YM; Park, SH; Zhao, WM; Yin, FX; You, BS; Shin, KS	JOURNAL OF ALLOYS AND COMPOUNDS	834				155216	2020	4.650	10.1016/j.jallcom.2020.155216	Closed	AEM
163	Microstructure of the novel biomedical Mg 4Y-3Nd alloy prepared by spark plasma sintering	Minarik, P; Zemkova, M; Lukac, E; Bohlen, J; Knapek, M; Kral, R	JOURNAL OF ALLOYS AND COMPOUNDS	819				153008	2020	4.650	10.1016/j.jallcom.2019.153008	Closed	AEM
164	Numerical and Experimental Analysis of Self-Protection in Reinforced Concrete due to Application of Mg-Al-NO(2)Layered Double Hydroxides	Mir, ZM; Bastos, A; Gomes, C; Mueller, U; Alonso, MC; Villar, K; Rabade, MP; Maia, F; Rocha, CM; Maincon, P; Hoche, D; Ferreira, MGS; Zheludkevich, ML	ADVANCED ENGINEERING MATERIALS	22	11			2000398	2020	3.217	10.1002/adem.202000398	Hybrid / DEAL	AEM

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165	Recent Advances on the Application of Layered Double Hydroxides in Concrete-A Review	Mir, ZM; Bastos, A; Hoche, D; Zheludkevich, ML	MATERIALS	13	6			1426	2020	3.057	10.3390/ma13061426	Gold	AEM
166	Interoperability architecture for bridging computational tools: application to steel corrosion in concrete	Mir, ZM; Friis, J; Hagelien, TF; Svenum, IH; Ringdalen, IG; Konchakova, N; Zheludkevich, ML; Hoche, D	MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING	28	2			25003	2020	1.874	10.1088/1361-651X/ab6209	Hybrid	AEM
167	Roles of Nd and Mn in a new creep-resistant magnesium alloy	Mo, N; McCarroll, I; Tan, QY; Ceguerra, A; Cairney, J; Dieringa, H; Huang, Y; Jiang, B; Pan, FS; Bermingham, M; Zhang, MX	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	779				139152	2020	4.652	10.1016/j.msea.2020.139152	Closed	AEM
168	Understanding Protein Networks Using Vester's Sensitivity Model	Moreno, LA; Omid, M; Wurlitzer, M; Luthringer, B; Helmholz, H; Schluter, H; Willumeit-Romer, R; Fugenschuh, A	IEEE-ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS	17	4	1440	1450	8571183	2020	3.015	10.1109/TCBB.2018.2885757	Closed	AEM
169	Oxidation behavior of arc evaporated TiSiN coatings investigated by in-situ synchrotron x-ray diffraction and HR-STEM	Moritz, Y., Saringer, C., Tkadletz, M., Stark, A., Schell, N., Letofsky-Papst, I., Czettel, C., Pohler, M., and Schalk, N.	Surface and Coatings Technology	404		1	13	126632	2020	3.784	10.1016/j.surfcoat.2020.126632	Hybrid	AEM/MML
170	Unexpected cytotoxicity of TiO <sub>2</sub> -coated magnesium alloys	Morquecho-Marin, D; Silva-Bermudez, P; Millan-Ramos, B; Victoria-Hernandez, J; Letzig, D; Ramirez-Ortega, D; Depablos-Rivera, O; Garcia-Lopez, J; Barrera-Ortega, CC; Rodil, SE	MATERIALS LETTERS	276				128236	2020	3.204	10.1016/j.matlet.2020.128236	Closed	AEM
171	Local Dirichlet-type absorbing boundary conditions for transient elastic wave propagation problems	Mossaiby, F; Shojaei, A; Boroomand, B; Zaccariotto, M; Galvanetto, U	COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING	362				112856	2020	5.763	10.1016/j.cma.2020.112856	Closed	AEM
172	Experimental and numerical bendability analysis of a 3rd generation magnesium alloy	Nagendra A., Steglich D.	Procedia Manufacturing	47		1274	1280		2020	Scopus	10.1016/j.promfg.2020.04236	Hybrid	AEM

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173	Molybdate intercalated hydroxalcalite/graphene oxide composite as corrosion inhibitor for carbon steel	Nguyen T.D., Nguyen A.S., Tran B.A., Vu K.O., Tran D.L., Phan T.T., Scharnagl N., Zheludkevich M.L., To T.X.H.	Surface and Coatings Technology	399				126165	2020	3.784	10.1016/j.surfcoat.2020.126165	Closed	AEM
174	Photocatalytic NOx abatement: Recent advances and emerging trends in the development of photocatalysts	Nguyen, VH; Nguyen, BS; Huang, CW; Le, TT; Nguyen, CC; Le, TTN; Heo, D; Ly, QV; Trinh, QT; Shokouhimehr, M; Xie, C; Lam, SS; N-Vo, DV; Kim, SY; Le, VQ.	Journal of Cleaner Production	270					2020	7.246	10.1016/j.jclepro.2020.1219	Closed	AEM
175	Pore characterization of PM Mg-0.6Ca alloy and its degradation behavior under physiological conditions	Nidadavolu EPS, Krüger D, Zeller-Plumhoff B, Tolnai D, Wiese B, Feyerabend F Ebel T, Willumeit-Römer R	Journal of Magnesium and Alloys						2020	7.115	10.1016/j.jma.2020.05.006	Gold	AEM
176	Cold Formability of Extruded Magnesium Bands	Nienaber M, Bohlen J, Victoria-Hernández J, Yi S, Kainer KU, Letzig D	Minerals, Metals and Materials Series			329	334		2020	Scopus	10.1007/978-3-030-36647-6_49	Closed	AEM
177	On the direct extrusion of magnesium wires from mg-al-zn series alloys	Nienaber M, Yi S, Kainer KU, Letzig D, Bohlen J	Metals	10	9			1208	2020	2,117	10.3390/met10091208	Gold	AEM
178	Prediction of elastic-plastic deformation of nanoporous metals by FEM beam modeling: A bottom-up approach from ligaments to real microstructures	Odermatt, A; Richert, C; Huber, N	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	791				139700	2020	4.652	10.1016/j.msea.2020.139700	Hybrid	AEM
179	Nanoporous high-entropy alloy by liquid metal dealloying	Okulov, A.V.; Joo, S.-H., Kim, H.S. Kato, H. Okulov, I.V.	Metals	10	10	1	7	1396	2020	Scopus	10.3390/met10101396	Gold	AEM
180	Surface functionalization of biomedical Ti-6Al-7Nb alloy by liquid metal dealloying	Okulov, A.V.; Joo, S.-H.; Okulov, A.V.; Volegov, A.S.; Luthringer, B.; Willumeit-Römer, R.; Zhang, L.; Mädler, L.; Eckert, J.; Kato, H.	NANOMATERIALS	10	8	1	12	1479	2020	Scopus	10.3390/nano10081479	Gold	AEM
181	Investigation of the impact of magnesium: Versus titanium implants on protein composition in osteoblast by label-free quantification	Omidi M., Ahmad Agha N., Müller A., Feyerabend F., Helmholtz H., Willumeit-Römer R., Schlüter H., Luthringer-Feyerabend B.J.C.	Metallomics	12	6	916	934		2020	3.796	10.1039/d0mt00028k	Hybrid	AEM

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182	Rhodamine-loaded TiO <sub>2</sub> particles for detection of polymer coating UV degradation	Ovodok, E; Maltanova, H; Poznyak, S; Ivanovskaya, M; Shendyukov, V; Spacek, V; Scharnagl, N; Maia, F; Tedim, J	MATERIALS TODAY-PROCEEDINGS	20		320	328		2020	Proceeding	10.1016/j.matpr.2019.10.069	Closed	AEM
183	Tailoring grain refinement through thickness in magnesium alloy via stationary shoulder friction stir processing and copper backing plate	Patel, V; Li, WY; Liu, XC; Wen, Q; Su, Y; Shen, JJ; Fu, BL	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	784				139322	2020	4.652	10.1016/j.msea.2020.139322	Closed	AEM
184	Lipid-Iron Nanoparticle with a Cell Stress Release Mechanism Combined with a Local Alternating Magnetic Field Enables Site-Activated Drug Release	Peñate Medina T, Gerle M, Humbert J, Chu H, Köpnick A-L, Barkmann R, Garamus VM, Sanz B, Purcz N, Will O, Appold L, Damm T, Suojanen J, Arnold P, Lucius R, Willumeit-Römer R, Açıl Y, Wiltfang J, Goya GF, Glüer CC, Peñate Medina O	Cancers	12	12			3767	2020	6.126	10.3390/cancers12123767	Gold	AEM/MML
185	Microstructures and wear-resistance of WC-reinforced high entropy alloy composite coatings by plasma cladding: effect of WC morphology	Peng Y., Zhang W., Li T., Zhang M., Wang L., Hu S.	Surface Engineering						2020	2.433	10.1080/02670844.2020.1812480	Closed	AEM
186	Microstructures and mechanical properties of FeCoCrNi-Mo High entropy alloys prepared by spark plasma sintering and vacuum hot-pressed sintering	Peng Y.B., Zhang W., Mei X.L., Wang H.J., Zhang M.Y., Wang L., Li X.F., Hu Y.	Materials Today Communications	24				101009	2020	2.678	10.1016/j.mtcomm.2020.101009	Closed	AEM
187	Effect of WC content on microstructures and mechanical properties of FeCoCrNi high-entropy alloy/WC composite coatings by plasma cladding	Peng, YB; Zhang, W; Li, TC; Zhang, MY; Liu, B; Liu, Y; Wang, L; Hu, SH	SURFACE & COATINGS TECHNOLOGY	385				125326	2020	3.784	10.1016/j.surfcoat.2019.125326	Closed	AEM
188	Emerging Hot Topics and Research Questions in Wrought Magnesium Alloy Development	Perez-Prado, MT; Bohlen, J; Yi, SB; Letzig, D; Al-Samman, T; Robson, J; Barnett, M; Poole, W; Mendis, C; Agnew, S; Stanford, N	JOM	72	7	2561	2567		2020	2.029	10.1007/s11837-020-04051-5	Closed	AEM

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189	High-Contrast Structural Color Based on Photonic Glass from Core-Shell Particles	Petrov A.Y., Shang G., Maiwald L., Eich M.,	Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS		2020-May				2020	Scopus		Closed	AEM
190	Dielectric characteristics of novel composite nanomaterial	Petrov, A; Zhaludkevich, A; Serdechnova, M; Hurski, L; Kalanda, N; Karpinsky, D; Krivchenya, D; Fink, D	FERROELECTRICS	554	1	1	10		2020	0.669	10.1080/00150193.2019.1684754	Green	AEM
191	Use of synergistic mixture of chelating agents for in situ LDH growth on the surface of PEO-treated AZ91	Petrova, E; Serdechnova, M; Shulha, T; Lamaka, SV; Wieland, DCF; Karlova, P; Blawert, C; Sarykevich, M; Zheludkevich, ML	SCIENTIFIC REPORTS	10	1			8645	2020	3.998	10.1038/s41598-020-65396-0	Gold	AEM
192	In situ observations of continuous cooling transformations in low alloy steels	Pickering, EJ; Collins, J; Stark, A; Connor, LD; Kiely, AA; Stone, HJ	MATERIALS CHARACTERIZATION	165				110355	2020	3.562	10.1016/j.matchar.2020.110355	Hybrid	AEM/MML
193	Single-phase friction riveting: metallic rivet deformation, temperature evolution, and joint mechanical performance	Pina Cipriano G., Ahiya A., dos Santos J.F., Vilaça P., Amancio-Filho S.T.	Welding in the World	64	1	47	58		2020	1.589	10.1007/s40194-019-00803-3	Hybrid	AEM
194	Metals in Hydrogen Technology	Pistidda, C	METALS	10	4			456	2020	2.117	10.3390/met10040456	Gold	AEM
195	Modification of poly(4-methyl-2-pentene) in the supercritical fluid medium for selective membrane separation of CO2 from various gas mixtures	Polevaya, V.; Vorobei, A.; Gavrikov, A.; Matson, S.; Parenago, O.; Shishatskiy, S.; Khotimskiy, V.	Polymers	12	11			2468	2020	3.426	10.3390/polym12112468	Gold	AEM
196	High Power Diode Laser (HPDL) surface treatments to improve the mechanical properties and the corrosion behaviour of Mg-Zn-Ca alloys for biodegradable implants	Pulido-González N., Torres B., Zheludkevich M.L., Rams J.	Surface and Coatings Technology	402				126314	2020	3.784	10.1016/j.surfcoat.2020.126314	Closed	AEM
197	Microstructural, mechanical and corrosion characterization of an as-cast Mg-3Zn-0.4Ca alloy for biomedical applications	Pulido-Gonzalez, N; Torres, B; Rodrigo, P; Hort, N; Rams, J	JOURNAL OF MAGNESIUM AND ALLOYS	8	2	510	522		2020	7.115	10.1016/j.jma.2020.02.007	Gold	AEM
198	Designing an AB(2)-Type Alloy (TiZr-CrMnMo) for the Hybrid Hydrogen Storage Concept	Puszkiew, J; von Colbe, JMB; Jepsen, J; Mitrokhin, SV; Movlaev, E; Verbetsky, V; Klassen, T	ENERGIES	13	11	2751	2777	2751	2020	2.702	10.3390/en13112751	Gold	AEM

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199	Advanced porous polymer membranes from self-assembling block copolymers	Radjabian, M; Abetz, V	PROGRESS IN POLYMER SCIENCE	102				101219	2020	22.620	10.1016/j.progpolymsci.2020.101219	Closed	AEM
200	Plasma electrolytic oxidation of AZ31 and AZ91 magnesium alloys: Comparison of coatings formation mechanism	Rakoch A.G., Monakhova E.P., Khabibullina Z.V., Serdechnova M., Blawert C., Zheludkevich M.L., Gladkova A.A.	Journal of Magnesium and Alloys	8	3	587	600		2020	7.115	10.1016/j.jma.2020.06.002	Gold	AEM
201	Multiphase-field modeling of temperature-driven intermetallic compound evolution in an Al-Mg system for application to solid-state joining processes	Raza, S.H.; Klusemann, B.	MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING	28	8			85003	2020	Scopus	10.1088/1361-651X/aba1df	Closed	AEM
202	<b>A Review of Experimentally Informed Micromechanical Modeling of Nanoporous Metals: From Structural Descriptors to Predictive Structure-Property Relationships</b>	<b>Richert, C; Huber, N</b>	<b>MATERIALS</b>	<b>13</b>	<b>15</b>			<b>3307</b>	<b>2020</b>	<b>3.057</b>	<b>10.3390/ma13153307</b>	<b>Gold</b>	<b>AEM</b>
203	Direct energy deposition of TiAl for hybrid manufacturing and repair of turbine blades	Rittinghaus, S.-K., Schmelzer, J., Rackel, M.W., Hemes, S., Vogelpoth, A., Hecht, U., Weisheit, A.	Materials	13	19			4392	2020	Scopus	10.3390/ma13194392	Gold	AEM/MML
204	Experimental Evidence for Nonthermal Contributions to Plasmon-Enhanced Electrochemical Oxidation Reactions	Rodio, M; Graf, M; Schulz, F; Mueller, NS; Eich, M; Lange, H	ACS CATALYSIS	10	3	2345	2353		2020	12.350	10.1021/acscatal.9b05401	Closed	AEM
205	Calcite incorporated in silica/collagen xerogels mediates calcium release and enhances osteoblast proliferation and differentiation	Rossler, S; Unbehau, R; Gemming, T; Kruppke, B; Wiesmann, HP; Hanke, T	SCIENTIFIC REPORTS	10	1			118	2020	3.998	10.1038/s41598-019-56023-8	Gold	AEM
206	In-situ analysis of continuous cooling precipitation in Al alloys by wide-angle X-ray scattering	Rowolt, C; Frock, H; Milkereit, B; Reich, M; Kowalski, W; Stark, A; Kessler, O	SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS	21	1	205	218		2020	5.799	10.1080/14686996.2020.1739554	Gold	AEM/MML
207	Isoporous membranes from novel polystyrene-bpoly(4-vinylpyridine)-b-poly(solketal methacrylate) (PS-b-P4VP-b-PSMA) triblock terpolymers and their post-modification	Saleem S., Rangou S., Abetz C., Filiz V., Abetz V.	Polymers	12	1			41	2020	3.426	10.3390/polym12010041	Gold	AEM

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208	Combined experimental-numerical study on residual stresses induced by a single impact as elementary process of mechanical peening	Sandmann, P; Nielsen, MA; Keller, S; Maawad, E; Staron, P; Klusemann, B	STRAIN	56	4			e12338	2020	1.313	10.1111/str.12338	Hybrid	AEM/MML
209	Facilitated Structure Formation in Isoporous Block Copolymer Membranes upon Controlled Evaporation by Gas Flow	Sankhala, K; Koll, J; Abetz, V	MEMBRANES	10	5			83	2020	3.094	10.3390/membranes10050083	Gold	AEM
210	Sintering of Mg and its alloys under hydrogen atmospheres	Schaper J. G., Wolff M., Ebel T., Willumeit-Römer R.	Euro PM 2018 Congress and Exhibition						2020	Scopus		Closed	AEM
211	Numerical residual strength prediction of stationary shoulder friction stir welding structures	Scheider, I; Barbini, A; dos Santos, JF	ENGINEERING FRACTURE MECHANICS	230				107010	2020	3.426	10.1016/j.engfracmech.2020.107010	Closed	AEM
212	Electrical Double Layer Capacitance of Curved Graphite Electrodes	Seebeck, J; Schiffels, P; Schweizer, S; Hill, JR; Meissner, RH	JOURNAL OF PHYSICAL CHEMISTRY C	124	10	5515	5521		2020	4.189	10.1021/acs.jpcc.9b10428	Closed	AEM
213	Conductive and radiative heat transfer inhibition in YSZ photonic glass	Shang, GL; Dyachenko, P; Leib, EW; Vossmeier, T; Petrov, A; Eich, M	CERAMICS INTERNATIONAL	46	11	19241	19247		2020	3.830	10.1016/j.ceramint.2020.04.262	Closed	AEM
214	Photonic glass based structural color	Shang, GL; Eich, M; Petrov, A	APL PHOTONICS	5	6			60901	2020	4.864	10.1063/5.0006203	Gold	AEM
215	Surface templated inverse photonic glass for saturated blue structural color	Shang, GL; Furlan, KP; Janssen, R; Petrov, A; Eich, M	OPTICS EXPRESS	28	6	7759	7770		2020	3.669	10.1364/OE.380488	Gold	AEM
216	Enabling intelligent Mg-sheet processing utilizing efficient machine-learning algorithm	Shariati M., Weber W.E., Bohlen J., Kurz G., Letzig D., Höche D.	Materials Science and Engineering A	794				139846	2020	4.652	10.1016/j.msea.2020.139846	Closed	AEM
217	Microstructural correlation with tensile and creep properties of AZ91 alloy in three casting techniques	Shastri H., Mondal A.K., Dutta K., Dieringa H., Kumar S.	Journal of Manufacturing Processes	57		566	573		2020	4.086	10.1016/j.jmapro.2020.07.010	Closed	AEM
218	Elastic strain induced abnormal grain growth in graphene nanosheets (GNSs) reinforced copper (Cu) matrix composites	Shi H., Gan W., Esling C., Wang X., Zhang Y., Maawad E., Stark A., Li X., Wang L.,	Acta Materialia		200	338	350		2020	7.656	10.1016/j.actamat.2020.09.017	Closed	AEM/MML
219	Dirichlet absorbing boundary conditions for classical and peridynamic diffusion-type models	Shojaei, A; Hermann, A; Seleson, P; Cyron, CJ	COMPUTATIONAL MECHANICS	66		773	793		2020	3.459	10.1007/s00466-020-01879-1	Hybrid	AEM



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220	The Influence of Laser Shock Peening on Fatigue Properties of AA2024-T3 Alloy with a Fastener Hole	Sikhamov, R; Fomin, F; Klusemann, B; Kashaev, N	METALS	10	4			495	2020	2.117	10.3390/met10040495	Gold	AEM
221	On the stability of the passive Ti-6Al-4V film of friction stir welds with stainless steel: Effect of not native metal species	Silva D.D., Campanelli L.C., Bergmann L, dos Santos J.F., Hammer P., Rovere C.A.D., Aquino J.M.	Electrochimica Acta	358				136900	2020	6.215	10.1016/j.electacta.2020.136900	Closed	AEM
222	Refill friction stir spot welding of AA6082-T6 alloy: Hook defect formation and its influence on the mechanical properties and fracture behavior	Silva, BH; Zepon, G; Bolfarini, C; dos Santos, JF	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	773				138724	2020	4.652	10.1016/j.msea.2019.138724	Closed	AEM
223	First-principles melting of krypton and xenon based on many-body relativistic coupled-cluster interaction potentials	Smits, OR; Jerabek, P; Pahl, E; Schwerdtfeger, P	PHYSICAL REVIEW B	101	10			104103	2020	3.575	10.1103/PhysRevB.101.104103	Green	AEM
224	Synergistic Mixture of Electrolyte Additives: A Route to a High-Efficiency Mg-Air Battery	Snihirova D, Wang L, Lamaka SV, Wang C, Deng M, Vaghefiazari B, Höche D, Zheludkevich ML	Journal of Physical Chemistry Letters	11	20	8790	8798		2020	Scopus	10.1021/acs.jpcclett.0c02174	Closed	AEM
225	<b>New insights into high-temperature deformation and phase transformation mechanisms of lamellar structures in high Nb-containing TiAl alloys</b>	<b>Song, L; Appel, F; Wang, L; Oehring, M; Hu, XG; Stark, A; He, JY; Lorenz, U; Zhang, TB; Lin, JP; Pyczak, F</b>	<b>ACTA MATERIALIA</b>	<b>186</b>		<b>575</b>	<b>586</b>		<b>2020</b>	<b>7.656</b>	<b>10.1016/j.actamat.2020.01.021</b>	<b>Closed</b>	<b>AEM/MML</b>
226	Microstructure and phase transformations of omega( $\omega$ )-Ti4Al3Nb based alloys after quenching and subsequent aging at intermediate temperatures	Song, L; Wang, L; Zhang, TB; Lin, JP; Pyczak, F	JOURNAL OF ALLOYS AND COMPOUNDS	821				153387	2020	4.650	10.1016/j.jallcom.2019.153387	Closed	AEM/MML
227	Sintering and Creep Resistance of Powder-Metallurgy-Processed Ti-(43-47)Al-5Nb-0.2B-0.2C	Soyama, J; Limberg, W; Ebel, T; Pyczak, F	ADVANCED ENGINEERING MATERIALS	22	8			2000377	2020	3.217	10.1002/adem.202000377	Closed	AEM
228	Mixed-Mode Deformation and Failure of a Magnesium Sheet Quantified using a Modified Arcan Fixture	Steglich D.	Experimental Mechanics	60	1	109	118		2020	2.496	10.1007/s11340-019-00542-y	Green	AEM

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229	Texture Hardening Observed in Mg-Zn-Nd Alloy Processed by Equal-Channel Angular Pressing (ECAP)	Straska, J; Minarik, P; Sasek, S; Vesely, J; Bohlen, J; Kral, R; Kubasek, J	METALS	10	1			35	2020	2.117	10.3390/met10010035	Gold	AEM
230	The Effect of Equal-Channel Angular Pressing on Microstructure, Mechanical Properties, and Biodegradation Behavior of Magnesium Alloyed With Silver and Gadolinium	Straumal Boris, Martynenko Natalia, Temralieva Diana, Serebryany Vladimir, Tabachkova Natalia, Shchetin Igor, Anisimova Natalia, Kiselevskiy Mikhail, Kolyanova Alexandra, Raab Georgy, Willumeit-Römer Regine, Dobatkin Sergey, Estrin Yuri	Crystals	10	10	1	17	918	2020	2.404	10.3390/cryst10100918	Gold	AEM
231	Stress relaxation through thermal crack formation in CVD TiCN coatings grown on WC-Co with different Co contents	Stylianou R., Velic D., Daves W., Ecker W., Stark A., Schell N., Tkadletz M., Schalk N., Czettl C., Mitterer C.	International Journal of Refractory Metals and Hard Materials	86				105102	2020	3.407	10.1016/j.ijrmhm.2019.105102	Closed	AEM/MML
232	Preclinical in vivo research of magnesium-based implants for fracture treatment: A systematic review of animal model selection and study design	Sun Y., H. Helmholtz, R. Willumeit-Römer	Journal of Magnesium and Alloys						2020	7.115	10.1016/j.jma.2020.09.011	Gold	AEM
233	Structure, hydration, and chloride ingress in C-S-H: Insight from DFT calculations	Svenum, IH; Ringdalen, IG; Bleken, FL; Friis, J; Hoche, D; Swang, O	CEMENT AND CONCRETE RESEARCH	129				105965	2020	8.328	10.1016/j.cemconres.2019.105965	Closed	AEM
234	Unloading behaviors of the rare-earth magnesium alloy ZE10 sheet	Tang W., Lee J.Y., Wang H., Steglich D., Li D., Peng Y., Wu P.,	Journal of Magnesium and Alloys						2020	Scopus	10.1016/j.jma.2020.02.023	Gold	AEM
235	Closed-loop control of product geometry by using an artificial neural network in incremental sheet forming with active medium	Thiery S, Zein El Abdine M, Heger J, Ben Khalifa N	International Journal of Material Forming	in press					2020	Scopus	10.1007/s12289-020-01598-1	Hybrid	AEM
236	In vivo assessment of biodegradable magnesium alloy ureteral stents in a pig model	Tie D, Liu H., Guan R., Holt-Torres P., Liu Y., Wang Y., Hort N.,	Acta Biomaterialia	116		415	425		2020	7,242	10.1016/j.actbio.2020.09.023	Closed	AEM
237	Influence of spinodal decomposition and fcc -> w phase transformation on global and local mechanical properties of nanolamellar CVD fcc-Ti1-xAlxN coatings	Tkadletz, M; Lechner, A; Schalk, N; Sartory, B; Stark, A; Schell, N; Saringer, C; Mitterer, C; Czettl, C	MATERIALIA	11				UNSP 100696	2020	0	10.1016/j.mtia.2020.100696	Closed	AEM/MML

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238	Effect of Gd and Nd Additions on the Thermo-Mechanical Response of a MgMn Alloy	Tolnai D., Gavras S., Barriobero-Vila P., Stark A., Schell N.	Minerals, Metals and Materials Series			37	42		2020	Scopus	10.1007/978-3-030-36647-6_8	Closed	AEM/MML
239	In-situ synchrotron investigation of the phases and their morphology-development in Mg-Nd-Zn alloys	Tolnai D., Sosro T., Gavras S., Buzolin R.H., Hort N.	International Journal of Materials Research	111	1	4	10		2020	0.653	10.3139/146.111786	Closed	AEM
240	In-situ synchrotron investigation of the phases- and their morphology-development in Mg-Nd-Zn alloys	Tolnai, D; Sosro, T; Gavras, S; Buzolin, RH; Hort, N	INTERNATIONAL JOURNAL OF MATERIALS RESEARCH	111	1	4	10		2020	0.653	10.3139/146.111786	Closed	AEM
241	The impact of brain cell metabolism and extracellular matrix on magnesium degradation	Unbehau R., Luthringer-Feyerabend B.J.C., Willumeit-Römer R.	Acta Biomaterialia	116		246	437		2020	7.242	10.1016/j.actbio.2020.08.043	Hybrid	AEM
242	Tailoring the Mg-air primary battery performance using strong complexing agents as electrolyte additives	Vaghefiazari, B; Hoche, D; Lamaka, SV; Snihirova, D; Zheludkevich, ML	JOURNAL OF POWER SOURCES	453				227880	2020	8.247	10.1016/j.jpowsour.2020.227880	Hybrid	AEM
243	Investigation of prior austenite grain and delta ferrite in CLAM welded joints after different diffusion annealing processes	Wang J., Castro C.C.D., Zou Y., Wang D., Lu X.	Fusion Engineering and Design	159				111815	2020	1.692	10.1016/j.fusengdes.2020.111815	Closed	AEM
244	Tuning the size selectivity of isoporous membranes for protein fractionation via two scalable post treatment approaches	Wang J., Rahman M.M., Abetz C., Abetz V.	Journal of Membrane Science	614				118535	2020	7.183	10.1016/j.memsci.2020.118535	Closed	AEM
245	Effects of degradable magnesium on paracrine signaling between human umbilical cord perivascular cells and peripheral blood mononuclear cells	Wang Q., Xu L., Helmholtz H., Willumeit-Römer R., Luthringer-Feyerabend B.J.C.	Biomaterials Science	8	21	5969	5983		2020	6.183	10.1039/d0bm00834f	Hybrid	AEM
246	Macrophage-derived oncostatin M/bone morphogenetic protein 6 in response to Mg-based materials influences pro-osteogenic activity of human umbilical cord perivascular cells	Wang Q., Xu L., Willumeit-Römer R., Luthringer-Feyerabend B.J.C.	Acta Biomaterialia						2020	7.242	10.1016/j.actbio.2020.12.016	Hybrid	AEM

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247	The Formation Mechanisms and Improvement Measures for Penetrating Cracks in QAI9-4/Q345B Welded Joint	Wang, J; de Castro, CC; Lu, XF	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	29	4	2346	2354		2020	1.652	10.1007/s11665-020-04749-2	Green	AEM
248	Bovine serum albumin selective integral asymmetric isoporous membrane	Wang, JL; Rahman, MM; Abetz, C; Abetz, V	JOURNAL OF MEMBRANE	604				118074	2020	7.183	10.1016/j.memsci.2020.118074	Closed	AEM
249	Achieving enhanced mechanical properties in Mg-Gd-Y-Zn-Mn alloy by altering dynamic recrystallization behavior via pre-ageing treatment	Wang, K; Dou, XX; Wang, JF; Huang, YD; Gavras, S; Hort, N; Liu, SJ; Hu, H; Wang, JX; Pan, FS	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	790				139635	2020	4.652	10.1016/j.msea.2020.139635	Closed	AEM
250	Microstructure and mechanical properties of large-scale Mg-Gd-Y-Zn-Mn alloys prepared through semi-continuous casting	Wang, K; Wang, JF; Dou, XX; Huang, YD; Hort, N; Gavras, S; Liu, SJ; Cai, YW; Wang, JX; Pan, FS	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	52		72	82		2020	6.155	10.1016/j.jmst.2020.04.013	Closed	AEM
251	Tailoring electrolyte additives for controlled Mg-Ca anode activity in aqueous Mg-air batteries	Wang, L; Snihirova, D; Deng, M; Vaghefinazari, B; Lamaka, SV; Hoche, D; Zheludkevich, ML	JOURNAL OF POWER SOURCES	460				228106	2020	8.247	10.1016/j.jpowsour.2020.228106	Closed	AEM
252	Microstructure controls the corrosion behavior of a lean biodegradable Mg-2Zn alloy	Wang, WH; Wu, HL; Zan, R; Sun, Y; Blawert, C; Zhang, SX; Ni, JH; Zheludkevich, ML; Zhang, XN	ACTA BIOMATERIALIA	107		349	361		2020	7.242	10.1016/j.actbio.2020.02.040	Closed	AEM
253	Laser shock peening on high-strength steel	Wang, H; Keller, S; Bai, Y.; Kashaev, N.; Gurevich, E.L.; Ostendorf, A.	Proceedings of SPIE - The International Society for Optical Engineering	11546				115460L	2020	Scopus	10.1117/12.2574988	Closed	AEM
254	Assessing the Bonding Interface Characteristics and Mechanical Properties of Bobbin Tool Friction Stir Welded Dissimilar Aluminum Alloy Joints	Wen, Q; Li, WY; Patel, V; Bergmann, L; Klusemann, B; dos Santos, JF	ACTA METALLURGICA SINICA-ENGLISH LETTERS						2020	2.090	10.1007/s40195-020-01101-4	Closed	AEM

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255	Alloying effect of silver in magnesium on the development of microstructure and mechanical properties by indirect extrusion	Wiese B., Willumeit-Römer R., Letzig D., Bohlen J.,	Journal of Magnesium and Alloys	9	1	112	122		2020	7.115	10.1016/j.jma.2020.08.001	Gold	AEM
256	Novel intermetallic-reinforced near-alpha Ti alloys manufactured by spark plasma sintering	Wimler, D; Lindemann, J; Gammer, C; Spoerk-Erdely, P; Stark, A; Clemens, H; Mayer, S	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	792				139798	2020	4.652	10.1016/j.msea.2020.139798	Hybrid	AEM/MML
257	Aerosol-Deposited BiVO4 Photoelectrodes for Hydrogen Generation	Wolpert, C (Wolpert, Charline); Emmeler, T (Emmeler, Thomas); Vidaller, MV (Villa Vidaller, Maria); Elsenberg, A (Elsenberg, Andreas); Shinoda, K (Shinoda, Kentaro); Schieda, M (Schieda, Mauricio); Gartner, F (Gartner, Frank); Akedo, J (Akedo, Jun); Klassen, T (Klassen, Thomas)	JOURNAL OF THERMAL SPRAY TECHNOLOGY	30		603	616		2020	2.522	10.1007/s11666-020-01104-8	Hybrid	AEM
258	Effects of combined addition of Ca and Y on the corrosion behaviours of die-cast AZ91D magnesium alloy	Woo, SK; Blawert, C; Yasakau, KA; Yi, S; Scharnagl, N; Suh, BC; Kim, YM; You, BS; Yim, CD	CORROSION SCIENCE	166				108451	2020	6.479	10.1016/j.corsci.2020.108451	Closed	AEM
259	Influence of secondary phases of AlSi9Cu3 alloy on the plasma electrolytic oxidation coating formation process	Wu, T; Blawert, C; Zheludkevich, ML	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	50		75	85		2020	6.155	10.1016/j.jmst.2019.12.031	Closed	AEM
260	A first-principles analysis of the charge transfer in magnesium corrosion	Wurger, T; Feiler, C; Vonbun-Feldbauer, GB; Zheludkevich, ML; Meissner, RH	Scientific Reports	10	1	15006			2020	3,998	10.1038/s41598-020-71694-4	Gold	AEM
261	Effect of biaxial compressive stress state on the microstructure evolution and deformation compatibility of rolled sheet Mg alloy AZ31 at room temperature	Xia, DB; Zhang, JL; Chen, X; Huang, GS; Jiang, B; Tang, AT; Gavras, S; Huang, YD; Hort, N; Pan, FS	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	789				139599	2020	4.652	10.1016/j.msea.2020.139599	Closed	AEM

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262	Adhesion and Surface Layers on Silicon Anodes Suppress Formation of c-Li <sub>3</sub> 75Si and Solid-Electrolyte Interphase	Xie, HZ; Sayed, SY; Kalisvaart, WP; Schaper, SJ; Muller-Buschbaum, P; Lubner, EJ; Olsen, BC; Haese, M; Buriak, JM	ACS APPLIED ENERGY MATERIALS	3	2	1609	1616		2020	4.473	10.1021/acsaem.9b02090	Closed	AEM/MML
263	MIM-processed high-ductility $\beta$ -type Ti-Nb-Zr-Y alloy for biomaterial applications	Xu P., Ebel T., Limberg W., Hidalgo A.A., Pyczak,F., Willumeit-Römer R.	European Powder Metallurgy Congress and Exhibition, Euro PM 2018						2020	Scopus		Closed	AEM
264	Investigation on the Microstructure and Mechanical Properties of Mg-Gd-Nd Ternary Alloys	Xu Y., Yang L., Liu W., Sun J., Xiao L., Jiang X., Hort N.	Minerals, Metals and Materials Series			79	85		2020	Scopus	10.1007/978-3-030-36647-6_14	Closed	AEM
265	Impacts of yttrium on microstructure and tensile properties of biomedical $\beta$ Ti-Nb-Zr fabricated by metal injection molding	Xu, P; Pyczak, F; Yan, M; Kong, FT; Ebel, T	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	792				139816	2020	4.652	10.1016/j.msea.2020.139816	Closed	AEM
266	Tensile toughening of powder-injection-molded $\beta$ Ti-Nb-Zr biomaterials by adjusting TiC particle distribution from aligned to dispersed pattern	Xu, P; Pyczak, F; Yan, M; Limberg, W; Willumeit-Römer, R; Ebel, T	APPLIED MATERIALS TODAY	19				UNSP 100630	2020	8.352	10.1016/j.apmt.2020.100630	Closed	AEM
267	In situ compressive investigations on the effects of solid solution Gd on the texture and lattice strain evolution of Mg	Xu, YL; Huang, YD; Zhong, ZY; You, SH; Gan, WM; Xiao, BQ; Maawad, E; Schell, N; Gensch, F; Pan, FS; Hort, N	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	774				138938	2020	4.652	10.1016/j.msea.2020.138938	Closed	AEM/MML

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268	Mechanical performance optimization of similar thin AA 7075-T6 sheets produced by refill friction stir spot welding [Optimierung der mechanischen Leistungsfähigkeit für artgleich produzierte AA 7075-T6-Bleche durch Rühr-Reib-Punkt-Schweißen]	Yamin M.F., Awang M., Suhuddin U.F.H., Sallih N., Klusemann B., dos Santos J.F.	Materialwissenschaft und Werkstofftechnik	51	6	830	835		2020	0.744	10.1002/mawe.201900253	Closed	AEM
269	Individual/synergistic effects of Al and AlN on the microstructural evolution and creep resistance of Elektron21 alloy	Yang H, Zander D, Huang YD, Kainer KU, Dieringa H	Materials Science & Engineering A	777				139072	2020	4,652	10.1016/j.msea.2020.139072	Closed	AEM
270	The effects of orientation control via tension-compression on microstructural evolution and mechanical behavior of AZ31 Mg alloy sheet	Yang Q., Jiang B., Song B., Yu Z., He D., Chai Y., Zhang J., Pan F.,	Journal of Magnesium and Alloys						2020	7,115	10.1016/j.jma.2020.08.005	Gold	AEM
271	Effects of heat treatment on the microstructural evolution and creep resistance of Elektron21 alloy and its nanocomposite	Yang, H; Zander, D; Jiang, B; Huang, YD; Gavras, S; Kainer, KU; Dieringa, H	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	789				139669	2020	4.652	10.1016/j.msea.2020.139669	Closed	AEM
272	Surface modification of biomedical Mg-Ca and Mg-Zn-Ca alloys using selective laser melting: Corrosion behaviour, microhardness and biocompatibility	Yao X., Tang J., Zhou Y., Atrons A., Dargusch M.S., Wiese B., Ebel T., Yan M.,	Journal of Magnesium and Alloys						2020	7,115	10.1016/j.jma.2020.08.011	Gold	AEM
273	Dynamic tensile properties and microstructural evolution of extruded EW75 magnesium alloy at high strain rates	Yu J., Song B., Xia D., Zeng X., Huang Y., Hort N., Mao P., Liu Z.	Journal of Magnesium and Alloys	8	3	849	859		2020	7.115	10.1016/j.jma.2020.02.013	Gold	AEM
274	Influence of the Molecular Weight and the Presence of Calcium Ions on the Molecular Interaction of Hyaluronan and DPPC	Zander, T.; Garamus, V.; Dedinaite, A.; Claesson, P.; Beldowski, P.; Gorny, K.; Dendzik, Z.; Wieland, F.; Willumeit-Römer, R.	Molecules	25	17	3907		3907	2020	3.267	10.3390/molecules25173907	Gold	AEM/MML

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275	Revealing the interfacial nanostructure of a deep eutectic solvent at a solid electrode	Zec, N; Mangiapia, G; Zheludkevich, ML; Busch, S; Moulin, JF	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	22	21	12104	12112		2020	3.430	10.1039/c9cp06779e	Hybrid	AEM/MML
276	Nanotomographic evaluation of precipitate structure evolution in a Mg-Zn-Zr alloy during plastic deformation	Zeller-Plumhoff B, Robisch A.-L., Pelliccia D, Longo E., Slominska H., Hermann A., Krenkel M., Storm M., Estrin Y., Willumeit-Römer R., Salditt T., Orlov D.,	Scientific Reports		10	16101		16101	2020	3.998	10.1038/s41598-020-72964-x	Gold	AEM/MML
277	Interfacial structures and mechanical properties of a high entropy alloy-diamond composite	Zhang W., Zhang M., Peng Y., Wang L., Liu Y., Hu S., Hu Y.	International Journal of Refractory Metals and Hard Materials	86				105109	2020	3.407	10.1016/j.ijrmhm.2019.105109	Closed	AEM
278	Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions	Zhang Y, Huang Y, Feyerabend F, Blawert C, Gan W, Maawad E, You S, Gavras S, Scharnagl N, Bode J, Vogt C, Zander D, Willumeit-Römer R, Kainer KU, Hort N	Acta Biomaterialia						2020	7,242	10.1016/j.actbio.2020.11.050	Hybrid	AEM
279	Discontinuous and continuous precipitation characteristics and mechanical properties of a AZ80A magnesium alloy at different aging temperatures	Zhang, KL; Li, HZ; Liang, XP; Chen, Z; Wang, L	MATERIALS CHARACTERIZATION	161				110146	2020	3.562	10.1016/j.matchar.2020.110146	Closed	AEM
280	Simultaneously enhancing mechanical properties and electrical conductivity of aluminum by using graphene as the reinforcement	Zhang, S; Chen, GQ; Qu, TM; Fang, G; Bai, SW; Yan, YF; Zhang, G; Zhou, ZX; Shen, JJ; Yao, DW; Zhang, YW; Shi, QY	MATERIALS LETTERS	265				127440	2020	3.204	10.1016/j.matlet.2020.127440	Closed	AEM
281	Effects of Intermetallic Microstructure on Degradation of Mg-5Nd Alloy	Zhang, YP; Huang, YD; Feyerabend, F; Gavras, S; Xu, YL; Willumeit-Römer, R; Kainer, KU; Hort, N	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	51	10	5498	5515		2020	2.050	10.1007/s11661-020-05926-7	Hybrid / DEAL	AEM
282	High-performance asymmetric isoporous nanocomposite membranes with chemically-tailored amphiphilic nanochannels	Zhang, ZZ; Rahman, MM; Abetz, C; Abetz, V	JOURNAL OF MATERIALS CHEMISTRY A	8	19	9554	9566		2020	11.301	10.1039/d0ta01023e	Hybrid	AEM



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283	<b>Chemically Tailored Multifunctional Asymmetric Isoporous Triblock Terpolymer Membranes for Selective Transport</b>	<b>Zhang, ZZ; Rahman, MM; Abetz, C; Hohme, AL; Sperling, E; Abetz, V</b>	<b>ADVANCED MATERIALS</b>	<b>32</b>	<b>8</b>			<b>1907014</b>	<b>2020</b>	<b>27.398</b>	<b>10.1002/adma.201907014</b>	Hybrid / DEAL	<b>AEM</b>
284	Selective laser melting additive manufacturing of 7xxx series Al-Zn-Mg-Cu alloy: Cracking elimination by co-incorporation of Si and TiB <sub>2</sub>	Zhou S.Y., Su Y., Wang H., Enz J., Ebel T., Yan M.	Additive Manufacturing	36				101458	2020	7.002	10.1016/j.addma.2020.101458	Closed	AEM
285	Texture and Lattice Strain Evolution during Tensile Loading of Mg-Zn Alloys Measured by Synchrotron Diffraction	Zhou X, Ha C, Yi S, Bohlen J, Schell N, Chi Y, Zheng M, Brokmeier H-G	Metals	10				124	2020	2,117	10.3390/met10010124	Gold	AEM/MML
286	The isothermal evolution of nanoporous gold from the ring perspective - an application of graph theory	Ziehmer M., Lilleodden E.T.,	Acta Materialia		199	669	679		2020	7.656	10.1016/j.actamat.2020.08.026	Hybrid	AEM

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1	The Next 100 Years of Polymer Science	Abd-El-Aziz, AS; Antonietti, M; Barner-Kowollik, C; Binder, WH; Boker, A; Boyer, C; Buchmeiser, MR; Cheng, SZD; D'Agosto, F; Floudas, G; Frey, H; Galli, G; Genzer, J; Hartmann, L; Hoogenboom, R; Ishizone, T; Kaplan, DL; Leclerc, M; Lendlein, A; Liu, B; Long, TE; Ludwigs, S; Lutz, JF; Matyjaszewski, K; Meier, MAR; Mullen, K; Mullner, M; Rieger, B; Russell, TP; Savin, DA; Schluter, AD; Schubert, US; Seiffert, S; Severing, K; Soares, JBP; Staffilani, M; Sumerlin, BS; Sun, YM; Tang, BZ; Tang, CB; Theato, P; Tirelli, N; Tsui, OKC; Unterlass, MM; Vana, P; Voit, B; Vyazovkin, S; Weder, C; Wiesner, U; Wong, WY; Wu, C; Yagci, Y; Yuan, JY; Zhang, GZ	MACROMOLECULAR CHEMISTRY AND PHYSICS	221	16			2000216	2020	2.335	10.1002/macp.202000216	Closed	BIFTM
2	Materials for Orthopedic Bioimplants: Modulating Degradation and Surface Modification Using Integrated Nanomaterials	Ahirwar, H; Zhou, YB; Mahapatra, C; Ramakrishna, S; Kumar, P; Nanda, HS	COATINGS	10	3			264	2020	2.436	10.3390/coatings10030264	Gold	BIFTM
3	The Impact of moderate Aortic valve Disease in patients undergoing MitraClip for severe MR	Al-Hindwan, HSA; Silbernagel, G; Curio, J; Abulgasim, K; Schröder, M; Wuerdemann, I; Kasner, M; Landmesser, U; Reinhaller, M	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	75	4	447	455		2020	1.741	10.3233/CH-200818	Green	BIFTM
4	A review on magneto-mechanical characterizations of magnetorheological elastomers	Bastola, AK; Hossain, M	COMPOSITES PART B-ENGINEERING	200				108348	2020	7.635	10.1016/j.compositesb.2020.108348	Closed	BIFTM
5	Recent progress of magnetorheological elastomers: a review	Bastola, AK; Paudel, M; Li, L; Li, WH	SMART MATERIALS & STRUCTURES	29	12			123002	2020	3.613	10.1088/1361-665X/abbc77	Closed	BIFTM
6	Impact of block sequence on the phase morphology of multiblock copolymers obtained by high-throughput robotic synthesis	Behl, M; Balk, M; Lützwow, K; Lendlein, A	EUROPEAN POLYMER JOURNAL	143				110207	2020	3.862	10.1016/j.eurpolymj.2020.110207	Hybrid	BIFTM
7	Polyetheresterurethane Based Porous Scaffolds with Tailorable Architectures by supercritical CO <sub>2</sub> Foaming,	Behl, M; Razzaq, MY; Mazurek-Budzynska, M; Lendlein, A	MRS ADVANCES	5	45	2317	2330		2020	0	10.1557/adv.2020.345	Closed	BIFTM

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8	Glucose-responsive shape-memory cryogels	Behl, M; Zhao, Q; Lendlein, A	JOURNAL OF MATERIALS RESEARCH	35	18	2396	2404		2020	2.502	10.1557/jmr.2020.204	Green	BIFTM
9	The influence of different rewetting procedures on the thrombogenicity of nanoporous poly(ether imide) microparticles	Braune, S; Bäckemo-Johansson, J; Lau, S; Heuchel, M; Kratz, K; Jung, F; Reinthaler, M; Lendlein, A	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION						2020	1.741	10.3233/CH-201029	Green	BIFTM
10	Formulation of drug-loaded oligodepsipeptide particles with submicron size	Brunacci, N; Wischke, C; Naolou, T; Patzelt, A; Lademann, J; Neffe AT; Lendlein, A	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION						2020	1.741	10.3233/CH-200977	Closed	BIFTM
11	Intracardiac Echocardiography to enable successful Edge-to-Edge Transcatheter Tricuspid Valve Repair in patients with insufficient TEE quality	Curio, J; Albugasim, K; Kasner, M; Rroku, A; Lauten, A; Lendlein, A; Landmesser, U; Reinthaler, M	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	76	2	199	210		2020	1.741	10.3233/CH-209211	Closed	BIFTM
12	Modulation of Mesenchymal Stem Cell Migration using Programmable Polymer Sheet Actuators	Deng, Z; Wang, W; Xu, X; Ma, N; Lendlein A	MRS ADVANCES	5	46-47	2381	2390		2020	0	10.1557/adv.2020.235	Closed	BIFTM
13	<b>Polymeric sheet actuators with programmable bioinstructivity</b>	<b>Deng, ZJ; Wang, WW; Xu, X; Gould, OEC; Kratz, K; Ma, N; Lendlein, A</b>	<b>PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA</b>	<b>117</b>	<b>4</b>	<b>1895</b>	<b>1901</b>		<b>2020</b>	<b>9.412</b>	<b>10.1073/pnas.1910668117</b>	<b>Hybrid</b>	<b>BIFTM</b>
14	Electrical Actuation of Coated and Composite Fibers Based on Poly[ethylene-co-(vinyl acetate)]	Farhan, M; Chaudhary, D; Nöchel, U; Behl, M; Kratz, K; Lendlein, A	MACROMOLECULAR MATERIALS ENGINEERING	306	2			2000579	2020	3.853	10.1002/mame.202000579	Hybrid / DEAL	BIFTM
15	beta-Lactoglobulin Adsorption Layers at the Water/Air Surface: 4. Impact on the Stability of Foam Films and Foams	Gochev, GG; Ulaganathan, V; Retzlaff, I; Gehin-Delval, C; Gunes, DZ; Leser, M; Kulozik, U; Miller, R; Braunschweig, B	MINERALS	10	7			636	2020	2.380	10.3390/min10070636	Gold	BIFTM
16	In vivo biocompatibility study of degradable homo- versus multiblock copolymers and their (micro)structure compared to an established biomaterial	Haase, T; Klopffleisch, R; Krost, A; Sauter, T; Kratz, K; Peter, J; Jung, F; Lendlein, A; Zohlhofer, D; Ruder, C	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	75	2	163	176		2020	1.741	10.3233/CH-190748	Green	BIFTM

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18	Understanding the impact of crystal lamellae organization on small molecule diffusion using a Monte Carlo approach	Hoffmann, F; Machatschek, R; Lendlein, A	MRS ADVANCES	5	52-53	2737	2749		2020	0	10.1557/adv.2020.386	Closed	BIFTM
19	Predicting NMR relaxation of proteins from molecular dynamics simulations with accurate methyl rotation barriers	Hoffmann, F; Mulder, FAA; Schafer, LV	JOURNAL OF CHEMICAL PHYSICS	152	8			84102	2020	2.991	10.1063/1.5135379	Green	BIFTM
19	Strain recovery and stress relaxation behaviour of multiblock copolymer blends physically cross-linked with PLA stereocomplexation	Izraylit V., Heuchel M., Gould O.E.C., Kratz K., Lendlein A.,	Polymer	209				122984	2020	4.231	10.1016/j.polymer.2020.122984	Hybrid	BIFTM
20	Alkynyl-functionalized chain-extended PCL for coupling to biological molecules	Izraylit V., Hommes-Schattmann P.J., Neffe A.T., Gould O.E.C., Lendlein A.	European Polymer Journal	136				109908	2020	3.862	10.1016/j.eurpolymj.2020.109908	Hybrid	BIFTM
21	Polyester urethane functionalizable through maleimide side-chains and cross-linkable by polylactide stereocomplexes	Izraylit V., Hommes-Schattmann P.J., Neffe A.T., Gould O.E.C., Lendlein A.	European Polymer Journal	137				109916	2020	3.862	10.1016/j.eurpolymj.2020.109916	Hybrid	BIFTM
22	Surface hydrophilization of highly porous poly(ether imide) microparticles by covalent attachment of poly(vinyl pyrrolidone)	Kratz, K; Heuchel, M; Weigel, T; Lendlein, A	Polymer	210				123045	2020	4.231	10.1016/j.polymer.2020.123045	Hybrid	BIFTM
23	Immunocompatibility and non-thrombogenicity of gelatin-based hydrogels	Krüger-Genge, A; Tondera, C; Hauser, S; Braune, S; Görs, J; Roch, T; Klopfleisch, R; Neffe AT; Lendlein, A; Pietzsch, J; Jung F	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION						2020	1.741	10.3233/CH-201028	Closed	BIFTM
24	Dihydroxy Terminated Teroligomers from Morpholine-2,5-Diones	Liang, X; Behl, M; Lendlein, A	EUROPEAN POLYMER JOURNAL	143				110189	2020	3.862	10.1016/j.eurpolymj.2020.110189	Hybrid	BIFTM
25	A novel selection strategy for antibody producing hybridoma cells based on a new transgenic fusion cell line	Listek M., Hönow A., Gossen M., Hanack K.	Scientific Reports	10	1			1664	2020	3.998	10.1038/s41598-020-58571-w	Gold	BIFTM
26	Shape-memory actuation of individual micro-/nanofibers	Liu, Y; Gould, OEC; Kratz, K; Lendlein, A	MRS ADVANCES	5	46-47	2391	2399		2020	0	10.1557/adv.2020.276	Closed	BIFTM

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27	Polymeric Microcuboids Programmable for Temperature-Memory	Liu, Y; Gould, OEC; Rudolph, T; Fang, L; Kratz, K; Lendlein, A	MACROMOLECULAR MATERIALS AND ENGINEERING	305	10			2000333	2020	3.853	10.1002/mame.202000333	Hybrid / DEAL	BIFTM
28	Comparative analysis of adeno-associated virus serotypes for gene transfer in organotypic heart slices	Liu, Z; Klose, K; Neuber, S; Jiang M; Gossen, M; Stamm, C	JOURNAL OF TRANSLATIONAL MEDICINE	18				437	2020	4.124	10.1186/s12967-020-02605-4	Gold	BIFTM
29	<b>Salt-Induced Shape-Memory Effect in Gelatin-Based Hydrogels</b>	<b>Löwenberg, C; Julich-Gruner, KK; Neffe, AT; Behl, M; Lendlein, A</b>	<b>BIOMACROMOLECULES</b>	<b>21</b>	<b>6</b>	<b>2024</b>	<b>2031</b>		<b>2020</b>	<b>6.092</b>	<b>10.1021/acs.biomac.9b01753</b>	<b>Closed</b>	<b>BIFTM</b>
30	Supramolecular Gelatin Networks Based on Inclusion Complexes	Löwenberg, C; Tripodo, G; Julich-Gruner KK; Neffe, AT; Lendlein, A	MACROMOLECULAR BIOSCIENCE	20	19			2000221	2020	3.416	10.1002/mabi.202000221	Hybrid / DEAL	BIFTM
31	<b>Quantitative model and thin film studies relating molecular architecture and degradation of multifunctional materials</b>	<b>Machatschek, R; Schulz, B; Lendlein, A</b>	<b>CELL REPORTS PHYSICAL SCIENCE</b>	<b>1</b>	<b>1</b>			<b>100009</b>	<b>2020</b>	<b>0</b>	<b>10.1016/j.xcrp.2019.100009</b>	<b>Gold</b>	<b>BIFTM</b>
32	Strategies for Simultaneous and Successive Delivery of RNA	Moradian, H; Lendlein, A; Gossen, M	JOURNAL OF MOLECULAR MEDICINE	98		1767	1779		2020	4.426	10.1007/s00109-020-01956-1	Hybrid / DEAL	BIFTM
33	mRNA Transfection-Induced Activation of Primary Human Monocytes and Macrophages: Dependence on Carrier System and Nucleotide Modification	Moradian, H; Roch, T; Lendlein, A; Gossen, M	SCIENTIFIC REPORTS	10	1			4181	2020	3.998	10.1038/s41598-020-60506-4	Gold	BIFTM
34	Human mesenchymal stromal cells and derived extracellular vesicles: Translational strategies to increase their proangiogenic potential for the treatment of cardiovascular disease	Nazari-Shafti, T.Z.; Neuber, S.; Duran, A.G.; Xu, Z.Y.; Beltsios, E.; Seifert, M.; Falk, V.; Stamm, C.	STEM CELLS TRANSLATIONAL MEDICINE	9	12	1558	1569		2020	6.429	10.1002/sctm.19-0432		BIFTM
35	Microparticles from Glycidylmethacrylated Gelatin as Cell Carriers Prepared in an Aqueous Two-Phase System	Neffe, AT; Garcia Cruz, DM; Roch, T; Lendlein, A	EUROPEAN POLYMER JOURNAL	142				110148	2020	3.862	10.1016/j.eurpolymj.2020.110148	Hybrid	BIFTM
36	Spheroid formation of human keratinocyte: balancing between cell-substrate and cell-cell interaction	Nie, Y; Xu, X; Wang, W; Ma, N; Lendlein, A	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	76	2	329	340		2020	1.741	10.3233/CH-209217	Green	BIFTM

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37	The effects of oscillatory temperature on HaCaT keratinocytes behaviors	Nie, Y; Xu, X; Wang, W; Ma, N; Lendlein, A	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	76	2	317	327		2020	1.741	10.3233/CH-209208	Green	BIFTM
38	Revascularization and limb salvage following critical limb ischemia by nanoceria-induced Ref-1/APE1-dependent angiogenesis	Park, IS; Mahapatra, C; Park, JS; Dashnyam, K; Kim, JW; Ahn, JC; Chung, PS; Yoon, DS; Mandakhbayar, N; Singh, RK; Lee, JH; Leong, KW; Kim, HW	BIOMATERIALS	242				119919	2020	10.317	10.1016/j.biomaterials.2020.119919	Hybrid	BIFTM
39	Deep-learning-based real-time prediction of acute kidney injury outperforms human predictive performance	Rank, N.; Pfahringer, B.; Kempfert, J.; Stamm, C.; Kuhne, T.; Schoenrath, F.; Falk, V.; Eickhoff, C.; Meyer, A.	NPJ DIGITAL MEDICINE	3	1			139	2020	0	10.1038/s41746-020-00346-8		BIFTM
40	Functional requirements for polymeric implant materials in head and neck surgery	Rickert, D; Steinhart, H; Lendlein, A	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	76	2	179	189		2020	1.741	10.3233/CH-209212	Green	BIFTM
41	Aptamer supported in vitro endothelialization of poly(ether imide) films	Schulz, C; Kruger-Genge, A; Jung, F; Lendlein, A	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	75	2	201	217		2020	1.741	10.3233/CH-190775	Green	BIFTM
42	Developing Advanced Functional Polymers for Biomedical Applications	Seppälä, J; van Bochove, B; Lendlein, A	BIOMACROMOLECULES	21	2	273	275		2020	6.092	10.1021/acs.biomac.9b01701	Green	BIFTM
43	Septal Reduction Using Transvenous Intramyocardial Cerclage Radiofrequency Ablation Preclinical Feasibility	Shin, E.-S.; Chon, M.-K.; Jun, E. J.; Park, Y.-H.; Lee, S.-H.; Kim, J.-S.; Shin, D.-H.; Lee, S.-Y.; Cho, M. S.; Lee, S.-W.; Reinthaler, M.; Park, J.-W.; Nam, G.-B.; Lederman, R. J.; Won, Y.; Kim, J.-H.	JACC-BASIC TO TRANSLATIONAL SCIENCE	5	10	988	998		2020	44.380	10.1016/j.jacbts.2020.08.006		BIFTM
44	Phasin interactome reveals the interplay of PhaF with the polyhydroxyalkanoate transcriptional regulatory protein PhaD in Pseudomonas putida	Tarazona, NA; Hernandez-Arriaga, AM; Kniewel, R; Prieto, MA	ENVIRONMENTAL MICROBIOLOGY	22	9	3922	3936		2020	4.933	10.1111/1462-2920.15175	Hybrid	BIFTM
45	<b>Influence of Depolymerases and Lipases on the Degradation of Polyhydroxyalkanoates Determined in Langmuir Degradation Studies</b>	<b>Tarazona, NA; Machatschek, R; Lendlein, A</b>	<b>ADVANCED MATERIALS INTERFACES</b>	<b>7</b>	<b>17</b>			<b>2000872</b>	<b>2020</b>	<b>4.948</b>	<b>10.1002/admi.202000872</b>	<b>Hybrid / DEAL</b>	<b>BIFTM</b>

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46	Concepts for efficient preparation of particulate polymer carrier systems by droplet -based microfluidics	Wischke, C	INTERNATIONAL JOURNAL OF PHARMACEUTICS	584				119401	2020	4.845	10.1016/j.ijpharm.2020.119401	Closed	BIFTM
47	Thin hydrogel coatings formation catalyzed by immobilized enzyme horseradish peroxidase	Wischke, C; Kersting, M; Welle, A; Lysyakova, L; Braune, S; Kratz, K; Jung, FR; Franzreb, M; Lendlein, A	MRS ADVANCES	5	14-15	773	783		2020	0	10.1557/adv.2020.218	Closed	BIFTM
48	Hematopoietic stem-cell senescence and myocardial repair - Coronary artery disease genotype/phenotype analysis of post-MI myocardial regeneration response induced by CABG/CD133+ bone marrow hematopoietic stem cell treatment in RCT PERFECT Phase 3	Wolfien, M., Klatt, D., Salybekov, A.A., Masaaki, Ii; Komatsu-Horii, M., Gaebel, R., Philippou-Massier, J., Schrinner, E., Akimaru, H., Akimaru, E., David, R., Garbade, J., Gummert, J., Haverich, A., Hennig, H., Iwasaki, H, Kaminski, A., Kawamoto, A, Klopsch, C, Kowallick, J.T., Krebs, S., Nesteruk, J., Reichenspurner, H., Ritter, C., Stamm, C., Tani-Yokoyama, A., Blum, H., Wolkenhauer, O., Schambach, A., Asahara, T., Steinhoff, G.	EBIOMEDICINE	57				102862	2020	0	10.1016/j.ebiom.2020.102862		BIFTM
49	Bio-based composites from plant based precursors and hydroxyapatite with shape-memory capability	Wong, TW; Behl, M; Yusoff, NISM; Li, TF; Wahit, MU; Ismail, AF; Zhao, Q; Lendlein, A	COMPOSITES SCIENCE AND TECHNOLOGY	194				108138	2020	7.094	10.1016/j.compscitech.2020.108138	Closed	BIFTM
50	Shape-Programmable Architected Hydrogels Sensitive to Ultrasound	Zhang, PF; Behl, M; Balk, M; Peng, XZ; Lendlein, A	MACROMOLECULAR RAPID COMMUNICATIONS	41	7			1900658	2020	4.886	10.1002/marc.201900658	Hybrid / DEAL PM	BIFTM

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1	Carbon heterogeneities in austenite during Quenching & Partitioning (Q&P) process revealed by in situ High Energy X-Ray Diffraction (HEXRD) experiments	Allain, S.Y.P., Gaudez, S., Geandier, G., Danoix, F., Soler, M., and Goune, M.	Scripta Materialia	181		108	114		2020	5.079	10.1016/j.scriptamat.2020.02.022		MML
2	Onset of a skyrmion phase by chemical substitution in MnGe-based chiral magnets	Altynbaev, E; Martin, N; Heinemann, A; Fomicheva, I; Tsvyashchenko, A; Mirebeau, I; Grigoriev, S	PHYSICAL REVIEW B	101	10			100404	2020	3.575	10.1103/PhysRevB.101.100404	Closed	MML
3	The instrument suite of the European Spallation Source	Andersen, KN, Argynova, DN, Jackson, AJ, Houston, J; Henry, PF; Deen, PP; Toft-Petersen, R; Beran, P; Strobl, M; Arnold, T; Wacklin-Knecht, H; Tsapatsaris, N; Oksanen, E; Woracek, R; Schweika, W; Mannix, D; Hiess, A; Kennedy, S; Kirstein, O; Arskold, SP; Taylor, J; Hagen, ME; Laszlo, G; Kanaki, K; Piscitelli, F; Khaplanov, A; Stefanescu, I; Kittelmann, T; Pfeiffer, D; Hall-Wilton, R; Lopez, CI; Aprigliano, G; Whitelegg, L; Moreira, FY; Olsson, M; Bordallo, HN; Martin-Rodriguez, D; Schneider, H; Sharp, M; Hartl, M; Nagy, G; Ansell, S; Pullen, S; Vickery, A; Fedrigo, A; Mezei, F; Arai, M; Heenan, RK; Halcrow, W; Turner, D; Raspino, D; Orszulik, A; Cooper, J; Webb, N; Galsworthy, P; Nightingale, J; Langridge, S; Elmer, J; Frielinghaus, H; Hanslik, R; Gussen, A; Jaksch, S; Engels, R; Kozielski, T.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	957				163402	2020	1.265	10.1016/j.nima.2020.163402	Hybrid	MML
4	Microstructure evolution and competitive reactions during quenching and partitioning of a model Fe-C-Mn-Si alloy	Aoued, S., Danoix, F., Allain, S.Y.P., Gaudez, S., Geandier, G., Hell, J.-C., Soler, M., and Gouné, M.	Metals	10	1	1	22	137	2020	2.117	10.3390/met10010137		MML
5	High-pressure cell for in situ neutron studies of hydrogen storage materials	Aslan N, Horstmann C, Metz O, Kotlyar O, Dornheim M, Pistidda C., Busch S., Lohstroh W., Müller M., Pranzas K.	Journal of Neutron Research	21	3/4	125	135		2020	Scopus	10.3233/JNR-190116	Hybrid	AEM/MML
6	A multi-scale deformation analysis for a particulate composite at the rigidity threshold	Bapari, S., Ghosh, P., Lienert, U., and Chokshi, A.H.	Composites Science and Technology	191		1	12	108063	2020	7.094	10.1016/j.compscitech.2020.108063		MML



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7	Mapping the geometry of Ti-6Al-4V: From martensite decomposition to localized spheroidization during selective laser melting	Barriobero-Vila, P; Artzt, K; Stark, A; Schell, N; Siggel, M; Gussone, J; Kleinert, J; Kitsche, W; Requena, G; Haubrich, J	SCRIPTA MATERIALIA	182		48	52		2020	5.079	10.1016/j.scriptamat.2020.02.043	Closed	AEM/MML
8	Movement analysis of primate molar teeth under load using synchrotron X-ray microtomography	Bemmann, M., E. Schulz-Kornas, J. U. Hammel, A. Hipp, J. Moosmann, A. Herrel, A. Rack, U. Radespiel, E. Zimmermann, T. M. Kaiser and K. Kupczik	Journal of Structural Biology	213	1			107658	2020	3.071	10.1016/j.jsb.2020.107658	Closed	MML
9	Inconel-steel multilayers by liquid dispersed metal powder bed fusion: Microstructure, residual stress and property gradients	Bodner, SC; van de Vorst, LTG; Zalesak, J; Todt, J; Keckes, JF; Maier-Kiener, V; Sartory, B; Schell, N; Hooijmans, JW; Saurwalt, JJ; Keckes, J	ADDITIVE MANUFACTURING	32				101027	2020	7.002	10.1016/j.addma.2019.101027	Closed	MML
10	Unravelling anisotropy evolution during spiral pipe forming: a multiscale approach	Bönisch, M., Bael, A.V., Seefeldt, M., Barriobero-Vila, P., Requena, G., Sanchez, N., and Cooreman, S.	Procedia Manufacturing	47		1434	1441		2020	Scopus	10.1016/j.promfg.2020.04310		MML
11	Zn-Al LDH growth on AA2024 and zinc and their intercalation with chloride: Comparison of crystal structure and kinetics	Bouali, AC; luzviuk, MH; Serdechnova, M; Yasakau, KA; Wieland, DCF; Dovzhenko, G; Maltanova, H; Zobkalo, IA; Ferreira, MGS; Zheludkevich, ML	APPLIED SURFACE SCIENCE	501				144027	2020	6.182	10.1016/j.apsusc.2019.144027	Hybrid	AEM/MML
12	In-situ synchrotron radiation study of the aging response of Ti-6Al-4V alloy with different starting microstructures	Callegari, B; Oliveira, JP; Aristizabal, K; Coelho, RS; Brito, PP; Wu, L; Schell, N; Soldera, FA; Mucklich, F; Pinto, HC	MATERIALS CHARACTERIZATION	165				110400	2020	3.562	10.1016/j.matchar.2020.110400	Closed	MML
13	New insights into the microstructural evolution of Ti-5Al-5Mo-5V-3Cr alloy during hot working	Callegari, B; Oliveira, JP; Coelho, RS; Brito, PP; Schell, N; Soldera, FA; Mucklich, F; Sadik, MI; Garcia, JL; Pinto, HC	MATERIALS CHARACTERIZATION	162				110180	2020	3.562	10.1016/j.matchar.2020.110180	Closed	MML
14	Load partition during hot deformation of AlSi12 and AlSi10Cu6Ni2 alloys: a quantitative evaluation of the stiffness of Si networks	Canelo-Yubero, D; Etlstorfer, C; Koos, R; Germann, H; Steffens, T; Stark, A; Boller, E; Requena, G	JOURNAL OF MATERIALS SCIENCE	55	29	14558	14570		2020	3.553	10.1007/s10853-020-05023-5	Closed	AEM/MML
15	In-situ characterization of continuous dynamic recrystallization during hot torsion of an Al-Si-Mg alloy	Canelo-Yubero, D; Kovacs, Z; Fotso, JFTS; Tolnai, D; Schell, N; Groma, I; Poletti, C	JOURNAL OF ALLOYS AND COMPOUNDS	822				153282	2020	4.650	10.1016/j.jallcom.2019.153282	Closed	MML

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16	Follow-up structural evolution of Ni/Ti reactive nano and microlayers during diffusion bonding of NiTi to Ti6Al4V in a synchrotron beamline	Cavaleiro, A.J; Ramos, AS; Fernandes, FMB; Schell, N; Vieira, MT	JOURNAL OF MATERIALS PROCESSING TECHNOLOGY	275				116354	2020	4.669	10.1016/j.jmatprotec.2019.116354	Closed	MML
17	Microstructural influence on thermal behavior of arc deposited TiAlN coatings with high aluminum content	Chaar, A.B.B., Rogström, L., Johansson-Jösaar, M.P., Barrirero, J., Aboufadel, H., Schell, N., Ostach, D., Mücklich, F., Odén, M.	Journal of Alloys and Compounds	854				157205	2020	4.650	10.1016/j.jallcom.2020.157205	Hybrid	MML
18	Observation of compact ferrimagnetic skyrmions in DyCo3 film	Chen, K.; Lott, D.; Philippi-Kobs, A.; Weigand, M.; Luo, C.; Radu, F.	Nanoscale	12	35	18137	18143		2020	6,895	10.1039/d0nr02947e	Closed	MML
19	Small-angle neutron scattering (SANS) characterization of 13.5 Cr oxide dispersion strengthened ferritic steel for fusion applications	Coppola, R.; Klimenkov, M.; Lindau, R; Mangiapia, G.	NUCLEAR MATERIALS AND ENERGY	24				100778	2020	2.213	10.1016/j.nme.2020.100778	Gold	MML
20	The effect of heat treatment on the precipitation hardening in FeNiCoAlTi single crystals	Czerny, M; Maziarz, W; Cios, G; Wojcik, A; Chumlyakov, Yi; Schell, N; Fitta, M; Chulist, R	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	784				139327	2020	4.652	10.1016/j.msea.2020.139327	Closed	MML
21	Carbon content evolution in austenite during austenitization studied by in situ synchrotron X-ray diffraction of a hypoeutectoid steel	Denand, B., Esin, V.A., Dehmas, M., Geandier, G., Denis, S., Sourmail, T., and Aeby-Gautier, E.	Materialia	10		1	10	100664	2020	0	10.1016/j.mtla.2020.100664		MML
22	Investigation into the influence of carbon nanotubes addition on residual stresses and mechanical properties in the CNTs@SiCp/Mg-6Zn hybrid composite using neutron diffraction method	Ding C., Gan W., Hu X., Wu K., Wang X.	Materials Science and Engineering A	797				140105	2020	4.652	10.1016/j.msea.2020.140105	Closed	MML
23	Development and strengthening mechanisms of a hybrid CNTs@SiCp/Mg-6Zn composite fabricated by a novel method	Ding C., Hu X., Shi H., Gan W., Wu K., Wang X.	Journal of Magnesium and Alloys						2020	7.115	10.1016/j.jma.2020.05.012	Gold	MML

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24	Processing, microstructure and mechanical properties of a novel mg matrix composites reinforced with urchin-like CNTs@SiCp	Ding C., Shi H., Wu K., Wang X., Gan W., Hu X., Xu C.,	Diamond and Related Materials		109				2020	Scopus	10.1016/j.diamond.2020.108087	Closed	MML
25	Strong Macroscale Supercrystalline Structures by 3D Printing Combined with Self-Assembly of Ceramic Functionalized Nanoparticles	Domenech, B; Tan, ATL; Jelitto, H; Berodt, EZ; Blankenburg, M; Focke, O; Cann, J; Tasan, CC; Ciacchi, LC; Muller, M; Furlan, KP; Hart, AJ; Schneider, GA	ADVANCED ENGINEERING MATERIALS	22	7			2000352	2020	3.217	10.1002/adem.202000352	Hybrid	MML
26	Study of Microstructural Development of Bainitic Steel using Eddy Current and Synchrotron XRD in-situ Measurement Techniques during Thermomechanical Treatment	Dong, J; Skalecki, MG; Hatwig, RA; Bevilaqua, WL; Stark, A; Epp, J; Rocha, AD; Zoch, HW	HTM-JOURNAL OF HEAT TREATMENT AND MATERIALS	75	1	3	21		2020	0	10.3139/105.110402	Closed	AEM/MML
27	Hot forging wire and arc additive manufacturing (HF-WAAM)	Duarte V.R., Rodrigues T.A., Schell N., Miranda R.M., Oliveira J.P., Santos T.G.	Additive Manufacturing	35				101193	2020	7.002	10.1016/j.addma.2020.101193	Hybrid	MML
28	Characterization of carbides in Q&P steels using a combination of high-resolution methods	Ebner, S; Schnitzer, R; Suppan, C; Stark, A; Liu, HW; Hofer, C	MATERIALS CHARACTERIZATION	163				110242	2020	3.562	10.1016/j.matchar.2020.110242	Closed	AEM/MML
29	Ecomorphology of the pectoral girdle in anurans (Amphibia, Anura): Shape diversity and biomechanical considerations	Engelkes, K., L. Kath, T. Kleinteich, J. U. Hammel, A. Beerlink and A. Haas	ECOLOGY AND EVOLUTION	10	20	11467	11487		2020	2.392	10.1002/ece3.6784	Gold	MML
30	Analysis of cyclic phase transformations during additive manufacturing of hardenable tool steel by in-situ X-ray diffraction experiments	Epp, J.; Dong, J.; Meyer, H.; Bohlen, A.	Scripta Materialia	177	27	31			2020	5.079	10.1016/j.scriptamat.2019.09.021		MML
31	Combined synchrotron x-ray diffraction, dilatometry and electrical resistivity in situ study of phase transformations in a Ti2AlNb alloy	Esin, V.A., Mällick, R., Dadé, M, Denand, B., Delfosse, J., and Sallot, P.	Materials Characterization	169		1	9	110654	2020	3.562	10.1016/j.matchar.2020.110654		MML
32	Hot deformation of Mg-Y-Zn alloy with a low content of the LPSO phase studied by in-situ synchrotron radiation diffraction	Fekete, KH; Drozdenko, D; Capek, J; Mathis, K; Tolnai, D; Stark, A; Garces, G; Dobron, P	JOURNAL OF MAGNESIUM AND ALLOYS	8	1	199	209		2020	7.115	10.1016/j.jma.2019.11.009	Gold	AEM/MML
33	Hard X-ray nano-holography with a Fresnel zone plate	Flenner, S.; Kubec, A.; David, Ch.; Storm, M.; Schaber, C. F.; Vollrath, F.; Mueller, M.; Greving, I.; Hagemann, J	OPTICS EXPRESS	28	25	37514	37525		2020	3,669	10.1364/OE.406074	Gold	MML

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34	Pushing the temporal resolution in absorption and Zernike phase contrast nanotomography: enabling fast in situ experiments	Flenner, S.; Storm, M.; Kubec, A.; Longo, E.; Doring, F.; Pelt, D.M.; David, C.; Muller, M.; Greving, I.	JOURNAL OF SYNCHROTRON RADIATION	27	5	1339	1346		2020	2.251	10.1107/S1600577520007407	Hybrid	MML
35	<b>Multiple Mechanical Gradients are Responsible for the Strong Adhesion of Spider Attachment Hair</b>	<b>Flenner, S; Schaber, CF; Krasnov, I; Stieglitz, H; Rosenthal, M; Burghammer, M; Gorb, SN; Muller, M</b>	<b>ADVANCED MATERIALS</b>	<b>32</b>	<b>37</b>			<b>2002758</b>	<b>2020</b>	<b>27.398</b>	<b>10.1002/adma.202002758</b>	<b>Hybrid / DEAL U KI</b>	<b>MML</b>
36	Multiscale Simulation Study on the Anisotropic Behavior of Seamless Copper Tubes Processed under Varied Conditions	Foadian, F; Khani, S; Carrado, A; Brokmeier, HG; Palkowski, H	JOURNAL OF MANUFACTURING PROCESSES	56		258	270		2020	4.086	10.1016/j.jmapro.2020.04.074	Closed	MML
37	On the formation of temperature-induced defects at the surface of TEM specimens prepared from TiAl using high-energy Gallium and low-energy Argon ions	Fröbel, U; Laipple, D	PHILOSOPHICAL MAGAZINE	100	15	1915	1941		2020	1.778	10.1080/14786435.2020.1748245	Closed	AEM/MML
38	Indentation-Induced Structural Changes in Vitreous Silica Probed by in-situ Small-Angle X-Ray Scattering	Fuhrmann S., de Macedo G.N.B.M., Limbach R., Krywka C., Bruns S., Durst K., Wondraczek L.	Frontiers in Materials	7				173	2020	2.705	10.3389/fmats.2020.00173	Gold	MML
39	Anisotropic Plastic Behavior in an Extruded Long-Period Ordered Structure Mg90Y6.5Ni3.5 (at.%) Alloy	Garces, G; Barea, R; Stark, A; Schell, N	CRYSTALS	10	4			279	2020	2.404	10.3390/cryst10040279	Gold	AEM/MML
40	Initial plasticity stages in Mg alloys containing Long-Period Stacking Ordered phases using High Resolution Digital Image Correlation (HRDIC) and in-situ synchrotron radiation	Garces, G; Orozco-Caballero, A; da Fonseca, JQ; Perez, P; Medina, J; Stark, A; Schell, N; Adeva, P	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	772				138716	2020	4.652	10.1016/j.msea.2019.138716	Closed	AEM/MML
41	HRTEM analysis of the high-temperature phases of the newly developed high-temperature Ni-base superalloy VDM 780 Premium	Ghica C., Solís C., Munke J., Stark A., Gehrman B., Bergner M., Rösler J., Gilles R.	Journal of Alloys and Compounds	814				152157	2020	4.650	10.1016/j.jallcom.2019.152157	Closed	AEM/MML
42	Solution Structure of the Detergent-Photosystem II Core Complex Investigated by Small-Angle Scattering Techniques	Golub, M.; Hussein, R.; Ibrahim, M.; Hecht, M.; Wieland, D.C.F.; Martel, A.; Machado, B.; Zouni, A.; Pieper, J.	JOURNAL OF PHYSICAL CHEMISTRY	124	39	8583	8592		2020	2.857	10.1021/acs.jpcc.0c07169	Closed	AEM/MML

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43	A zone melting device for the in situ observation of directional solidification using high-energy synchrotron x rays	Gombola, C; G. Hasemann, A. Kauffmann, I. Sprenger, S. Laube, A. Schmitt, F. Gang, V. Bolbut, M. Oehring, M. Blankenburg, N. Schell, P. Staron, F. Pyczak, M. Krüger, M. Heilmaier	Review of Scientific Instruments	91	9			93901	2020	1.480	10.1063/5.0019020	Closed	AEM/MML
44	Microstructural Investigations of Novel High Temperature Alloys Based on NiAl-(Cr,Mo)	Gombola, C; Kauffmann, A; Geramifard, G; Blankenburg, M; Heilmaier, M	METALS	10	7			961	2020	2.117	10.3390/met10070961	Green	MML
45	Structural Diversity of Native Major Ampullate, Minor Ampullate, Cylindric, and Flagelliform Silk Proteins in Solution	Greving I., Terry A.E., Holland C., Boulet-Audet M., Grillo I., Vollrath F., Dicko C.	Biomacromolecules	21	8	3387	3393		2020	6.092	10.1021/acs.biomac.0c00819	Hybrid	MML
46	Microstructure, texture and hardness of a metastable beta-titanium alloy after bar-rolling and annealing	Gu, B; Chekhonin, P; Schaarschuch, R; Oertel, CG; Xin, SW; Ma, CL; Zhou, L; Gan, WM; Skrotzki, W	JOURNAL OF ALLOYS AND COMPOUNDS	825				154082	2020	4.650	10.1016/j.jallcom.2020.154082	Closed	MML
47	Ultrafine eutectic Ti-Fe-based alloys processed by additive manufacturing – A new candidate for high temperature applications	Gussone J, Bugelnig K., Barriobero-Vila P., da Silva J.C., Hecht U., Dresbach C., Sket F., Cloetens P., Stark A., Schell N., Haubrich J., Requena G.	Applied Materials Today	20				100767	2020	8.352	10.1016/j.apmt.2020.100767	Hybrid	AEM/MML
48	Mechanistic study of super-lattice-enabled high toughness and hardness in MoN/TaN coatings	Hahn R., Koutná N., Wójcik T., Davydok A., Kolozsvári S., Krywka C., Holec D., Bartosik M., Mayrhofer P.	COMMUNICATIONS MATERIALS	1	1	1	11	62	2020	-	10.1038/s43246-020-00064-4	Gold	MML
49	Enhancing the high temperature strength of a Co-base superalloy by optimizing the $\gamma/\gamma'$ microstructure	Hausmann, D.; C. Solis, L. P. Freund, N. Volz, A. Heinemann, M Göken, R. Gilles and S. Neumeier	Metals - Open Access Metallurgy Journal	10	3			321	2020	2.117	10.3390/met10030321		MML
50	Dynamics of porous and amorphous magnesium borohydride to understand solid state Mg-ion-conductors	Heere, M; Hansen, AL; Payandeh, S; Aslan, N; Gizer, G; Sorby, MH; Hauback, BC; Pistidda, C; Dornheim, M; Lohstroh, W	SCIENTIFIC REPORTS	10	1			9080	2020	3.998	10.1038/s41598-020-65857-6	Gold	AEM/MML
51	On the microscopic origin of the cryoprotective effect in lysine solutions	Henao, A; Ruiz, GN; Steinke, N; Cerveny, S; Macovez, R; Guardia, E; Busch, S; McLain, SE; Lorenz, CD; Pardo, LC	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	22	13	6919	6927		2020	3.430	10.1039/c9cp06192d	Closed	AEM/MML
52	Reconstructing intragranular strain fields in polycrystalline materials from scanning 3DXRD data	Henningsson, NA; Hall, SA; Wright, JP; Hektor, J	JOURNAL OF APPLIED CRYSTALLOGRAPHY	53		314	325		2020	2.995	10.1107/s1600576720001016	Hybrid	MML

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53	Production and characterization of functionally graded NiTi shape memory alloys by Joule effect	Inacio, PL; Camacho, EF; Schell, N; Fernandes, FMB; Oliveira, JP; Santos, TG	JOURNAL OF MATERIALS PROCESSING TECHNOLOGY	285				116803	2020	4.669	10.1016/j.jmatprotec.2020.116803	Closed	MML
54	In situ kinetics studies of Zn-Al LDH intercalation with corrosion related species	Iuzviuk, MH; Bouali, AC; Serdechnova, M; Yasakau, KA; Wieland, DCF; Dovzhenko, G; Mikhailau, A; Blawert, C; Zobjkalo, IA; Ferreira, MGS; Zheludkevich, ML	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	22	31	17574	17586		2020	3.430	10.1039/d0cp01765e	Closed	AEM/MML
55	Rearrangements of dislocations during continuous heating of deformed beta-TiNb alloy observed by in-situ synchrotron X-ray diffraction	Ivanov, IV; Emurlaev, KI; Lazurenko, DV; Stark, A; Bataev, IA	MATERIALS CHARACTERIZATION	166				110403	2020	3.562	10.1016/j.matchar.2020.110403	Closed	AEM/MML
56	Application of Different Diffraction Peak Profile Analysis Methods to Study the Structure Evolution of Cold-Rolled Hexagonal alpha-Titanium	Ivanov, IV; Lazurenko, DV; Stark, A; Pyczak, F; Thommes, A; Bataev, IA	METALS AND MATERIALS INTERNATIONAL	26	1	83	93		2020	1.990	10.1007/s12540-019-00309-z	Closed	AEM/MML
57	Microstructural evolution and thermal stability of AlCr(Si)N hard coatings revealed by in-situ high-temperature high-energy grazing incidence transmission X-ray diffraction	Jäger, N; Meindlumer, M; Spor, S; Hruby, H; Julin, J; Stark, A; Nahif, F; Keckes, J; Mitterer, C; Daniel, R	ACTA MATERIALIA	186		545	554		2020	7.656	10.1016/j.actamat.2020.01.026	Closed	AEM/MML
58	The mid-Cretaceous †Lepiceratus Gen. nov. and the Evolution of the Relict Beetle Family Lepiceridae (Insecta: Coleoptera: Myxophaga)	Jaloszynski P., Luo X.-Z., Hammel J.U., Yamamoto S., Beutel R.G.	Journal of Systematic Palaeontology	18	13	1127	1140		2020	2.833	10.1080/14772019.2020.1747561	Closed	MML
59	Microstructural and Phase Analysis of an Additively Manufactured Intermetallic TiAl Alloy using Metallographic Techniques and High-Energy X-Rays	Jop, M; Wartbichler, R; Staron, P; Maawad, E; Mayer, S; Clemens, H	PRAKTISCHE METALLOGRAFIE-PRACTICAL METALLOGRAPHY	57	2	84	95		2020	0.315	10.3139/147.110611	Closed	MML
60	Potato Protein Nanofibrils Produced from a Starch Industry Sidestream	Josefsson, L; Ye, XC; Brett, CJ; Meijer, V; Olsson, C; Sjogren, A; Sundlof, J; Davydok, A; Langton, M; Emmer, A; Lendel, C	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	8	2	1058	1067		2020	7.632	10.1021/acssuschemeng.9b05865	Hybrid	MML
61	Thermo-physical properties of coatings in the Ti(B,N) system grown by chemical vapor deposition	Kainz, C; Schalk, N; Tkadletz, M; Saringer, C; Winkler, M; Stark, A; Schell, N; Julin, J; Czetti, C	SURFACE & COATINGS TECHNOLOGY	384				125318	2020	3.784	10.1016/j.surfcoat.2019.125318	Closed	AEM/MML

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62	Elemental partitioning in medium Mn steel during short-time annealing: An in-situ study using synchrotron x-rays	Kalsar, R.; Sanamar, S.; Schell, N.; Brokmeier, H.; Saha, R.; Ghosh, P.; Bhagat, A.; Suwas, S.	Materialia	9				100594	2020	0	10.1016/j.mtla.2020.100594	Closed	MML
63	In Situ Synchrotron X-Ray Diffraction Stress Analysis During Laser Surface Line Hardening of Samples with Specific Geometric Features	Kiefer D., Gibmeier J., Wilde F., Beckmann F.	Minerals, Metals and Materials Series			2127	2138		2020	Scopus	10.1007/978-3-030-36296-6_196	Closed	MML
64	Determination of Temperature-Dependent Elastic Constants of Steel AISI 4140 by Use of In Situ X-ray Dilatometry Experiments	Kiefer, D; Gibmeier, J; Stark, A	MATERIALS	13	10			2378	2020	3.057	10.3390/ma13102378	Gold	AEM/MML
65	Ultracompact 3D microfluidics for time-resolved structural biology	Knoska, J; Adriano, L; Awel, S; Beyerlein, KR; Yefanov, O; Oberthuer, D; Murillo, GEP; Roth, N; Sarrou, I; Villanueva-Perez, P; Wiedorn, MO; Wilde, F; Bajt, S; Chapman, HN; Heymann, M	NATURE COMMUNICATIONS	11	1			657	2020	12.121	10.1038/s41467-020-14434-6	Gold	MML
66	Effects of finish turning on an austenitic weld investigated using diffraction methods	Kornmeier, JR; Hofmann, M; Gan, WM; Robin, V; Valiorgue, F; Pascal, H; Gibmeier, J; Saroun, J	INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY	108	3	635	645		2020	2.633	10.1007/s00170-020-05386-8	Hybrid	MML
67	Cyclic Water Storage Behavior of Doubly Thermoresponsive Poly(sulfobetaine)-Based Diblock Copolymer Thin Films	Kreuzer, L. P.; Widmann, T.; Aldosari, N.; Biessmann, L.; Mangiapia, G.; Hildebrand, V.; Laschewsky, A.; Papadakis, C. M.; Mueller-Buschbaum, P.	Macromolecules	53	20	9108	9121		2020	5.918	10.1021/acs.macromol.0c01335	Closed	MML
68	Phase Transition Kinetics of Doubly Thermoresponsive Poly(sulfobetaine)-Based Diblock Copolymer Thin Films	Kreuzer, LP; Widmann, T; Biessmann, L; Hohn, N; Pantle, J; Markl, R; Moulin, JF; Hildebrand, V; Laschewsky, A; Papadakis, CM; Muller-Buschbaum, P	Macromolecules	53	8	2841	2855		2020	5.918	10.1021/acs.macromol.0c00046	Closed	MML
69	In-situ investigation of the evolution of microstructure and texture during load reversal of commercially pure titanium using synchrotron X-ray diffraction	Krishna, MV; Sahu, VK; Ghosh, A; Brokmeier, HG; Gurao, NP	MATERIALS CHARACTERIZATION	159				110039	2020	3.562	10.1016/j.matchar.2019.110039	Closed	MML
70	Influence of the Ti/Al/Nb ratio on the structure and properties on intermetallic layers obtained on titanium by non-vacuum electron beam cladding	Lazurenko, DV; Laptev, IS; Golkovsky, MG; Stark, A; Paul, J; Bataev, I; Ruktuev, AA; Song, L; Gollwitzer, C; Pyczak, F	MATERIALS CHARACTERIZATION	163				110246	2020	3.562	10.1016/j.matchar.2020.110246	Closed	AEM/MML

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71	Mechanisms of supramolecular ordering of water-soluble derivatives of fullerenes in aqueous media	Lebedev V.T., Kulvelis Y.V., Voronin A.S., Komolkin A.V., Kyzyma E.A., Tropin T.V., Garamus V.M.	Fullerenes Nanotubes and Carbon Nanostructures	28	1	30	39		2020	1.648	10.1080/1536383X.2019.1671362	Green	MML
72	Over 2% magnetic-field-induced strain in a polycrystalline Ni <sub>50</sub> Mn <sub>28.5</sub> Ga <sub>21.5</sub> alloy prepared by directional solidification	Li Z., Li Z., Yang B., He X., Gan W., Zhang Y., Li Z., Zhang Y., Esling C., Zhao X., Zuo L.	Materials Science and Engineering A	780				139170	2020	4.652	10.1016/j.msea.2020.139170	Closed	MML
73	Multi-scale phase analyses of strain-induced martensite in austempered ductile iron (ADI) using neutron diffraction and transmission techniques	Li, X.; Soria, S.; Gan, W.M.; Hofmann, M.; Schulz, M.; Hoelzel, M.; Brokmeier, H.G.; Petry, W.	JOURNAL OF MATERIALS SCIENCE	56		5296	5306		2020	3.553	10.1007/s10853-020-05619-x	Hybrid / DEAL	MML
74	Temperature dependence of misfit in different Co-Al-W ternary alloys measured by synchrotron X-ray diffraction	Li, YZ; Pyczak, F; Stark, A; Wang, L; Oehring, M; Paul, J; Lorenz, U	JOURNAL OF ALLOYS AND COMPOUNDS	819				152940	2020	4.650	10.1016/j.jallcom.2019.152940	Closed	AEM/MML
75	Unravelling complexity: A strategy for the characterization of anisotropic core multi-shell nanoparticles	Lin, Wie; Christoph Greve, Sebastian Härtner, Klaus Götz, Johannes Walter, Mingjian Wu, Stefanie Rechberger, Erdmann Spiecker, Sebastian Busch, Tilo Schmutzler, Yamini Avadhut, Martin Hartmann, Tobias Unruh, Wolfgang Peukert, Doris Segets	Particle & Particle Systems Characterization	37				2000145	2020	3.099	10.1002/ppsc.202000145	Hybrid	MML
76	X-ray Zernike phase contrast tomography: 3D ROI visualization of mm-sized mice organ tissues down to sub-cellular components	Longo, E.; L. Sancey, S. Flenner, A. Kubec, A. Bonnin, C. David, M. Müller, I. Greving	Biomed. Opt. Express	11	10	5506	5517		2020	3,921	10.1364/BOE.396695	Gold	MML
77	Texture transition in friction stir processed Al powder compact	Malakar, A; Suresh, KS; Pancholi, V; Brokmeier, HG; Schell, N	MATERIALS CHARACTERIZATION	167				110525	2020	3.562	10.1016/j.matchar.2020.110525	Closed	MML
78	Comparing the backfilling of mesoporous titania thin films with hole conductors of different sizes sharing the same mass density	Markl, RS; Hohn, N; Hupf, E; Biessmann, L; Korstgens, V; Kreuzer, LP; Mangiapia, G; Pomm, M; Kriele, A; Rivard, E; Muller-Buschbaum, P	IUCRJ	7		268	275		2020	5.401	10.1107/S2052252520000913	Gold	MML
79	High temperature mechanical behaviour of Mg-6Zn-1Y alloy with 1 wt.% calcium addition: Reinforcing effect due to L-(Mg <sub>3</sub> Zn <sub>6</sub> Y) and Mg <sub>6</sub> Zn <sub>3</sub> Ca <sub>2</sub> phases	Medina J., Garces G., Pérez P., Stark A., Schell N., Adeva P.,	Journal of Magnesium and Alloys	8	4	1047	1060		2020	7.115	10.1016/j.jma.2020.08.007	Gold	AEM/MML



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80	Lipid-Iron Nanoparticle with a Cell Stress Release Mechanism Combined with a Local Alternating Magnetic Field Enables Site-Activated Drug Release	Medina, T. P.; M. Gerle, J. Humbert, H. Chu, A. L. Köpnick, R. Barkmann, V. M. Garamus, B. Sanz, N. Purcz, O. Will, L. Appold, T. Damm, J. Suojanen, P. Arnold, R. Lucius, R. Willumeit-Römer, Y. Açil, J. Wiltfang, G. F. Goya, C. C. Glüer, O. P. Medina	Cancers	12	12	1	27	3767	2020	6.126	10.3390/cancers12123767	Gold	AEM/MML
81	Determination of damage mechanisms and damage evolution in fiber metal laminates containing friction stir welded thin foils	Mercado, UA; Sket, F; Wilde, F; Besel, M; Requena, G	INTERNATIONAL JOURNAL OF MATERIALS RESEARCH	111	1	23	31		2020	0.653	10.3139/146.111815	Closed	MML
82	MORPHOLOGY OF THE MICELLES FORMED BY A COMB-LIKE PEG-CONTAINING COPOLYMER LOADED WITH ANTITUMOR SUBSTANCES WITH DIFFERENT WATER SOLUBILITIES	Mitina, NY; Riabtseva, AO; Garamus, VM; Lesyk, RB; Volyanyuk, KA; Izhyk, OM; Zaichenko, OS	UKRAINIAN JOURNAL OF PHYSICS	65	8	670	677		2020	0 (CiteScore: 0.8 )	10.15407/ujpe65.8.670	Hybrid	MML
83	Oxidation behavior of arc evaporated TiSiN coatings investigated by in-situ synchrotron x-ray diffraction and HR-STEM	Moritz, Y., Saringer, C., Tkadletz, M., Stark, A., Schell, N., Letofsky-Papst, I, Czettl, C., Pohler, M., and Schalk, N.	Surface and Coatings Technology	404		1	13	126632	2020	3.784	10.1016/j.surfcoat.2020.12.6632	Hybrid	AEM/MML
84	Inside the head of a cybertype - three-dimensional reconstruction of the head muscles of Ommatoiulus avatar (Diplopoda: Juliformia: Julidae) reveals insights into the feeding movements of Juliformia	Naumann, B; Reip, HS; Akkari, N; Neubert, D; Hammel, JU	ZOOLOGICAL JOURNAL OF THE LINNEAN SOCIETY	188	4	954	975		2020	2.824	10.1093/zoolinnean/zlz109	Closed	MML
85	Gas tungsten arc welding of as-rolled CrMnFeCoNi high entropy alloy	Oliveira, JP; Curado, TM; Zeng, Z; Lopes, JG; Rossinyol, E; Park, JM; Schell, N; Fernandes, FMB; Kim, HS	MATERIALS & DESIGN	189				108505	2020	6.289	10.1016/j.matdes.2020.10.8505	Gold	MML
86	Combining SANS and VSANS to Extend Q-Range for Morphology Investigation of Silicon-Graphite Anodes	Paul N., Frielinghaus H., Busch S., Pipich V., Gilles R.,	Journal of Surface Investigation	14	Suppl. 1	S156	S160		2020	-	10.1134/S1027451020070368	Closed	MML
87	Surface distortion of Fe dot-decorated TiO2 nanotubular templates using time-of-flight grazing incidence small angle scattering	Paul N., Moulin J.-F., Mangiapia G., Kriele A., Müller-Buschbaum P., Opel M., Paul A.	Scientific Reports	10	1			4038	2020	3.998	10.1038/s41598-020-60899-2	Gold	MML

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88	Primary cell wall inspired micro containers as a step towards a synthetic plant cell	Paulraj, T; Wennmalm, S; Wieland, DCF; Riazanova, AV; Dedinaite, A; Pomorski, TG; Cardenas, M; Svagan, AJ	NATURE COMMUNICATIONS	11	1			958	2020	12.121	10.1038/s41467-020-14718-x	Gold	MML
89	In situ observations of continuous cooling transformations in low alloy steels	Pickering, EJ; Collins, J; Stark, A; Connor, LD; Kiely, AA; Stone, HJ	MATERIALS CHARACTERIZATION	165				110355	2020	3.562	10.1016/j.matchar.2020.110355	Hybrid	AEM/MML
90	Small Angle X-ray Scattering Study of Magnetic Nanofluid Exposed to an Electric Field	Rajnak, M; Garamus, VM; Timko, M; Kopcansky, P; Paulovicova, K; Kurimsky, J; Dolnik, B; Cimbala, R	ACTA PHYSICA POLONICA A	137	5	942	944		2020	0.579	10.12693/APhysPolA.137.942	Hybrid	MML
91	First stages of plasticity in three-point bent Au nanowires detected by in situ Laue microdiffraction	Ren, Z; Cornelius, TW; Leclere, C; Davydok, A; Micha, JS; Robach, O; Richter, G; Thomas, O	APPLIED PHYSICS LETTERS	116	24				2020	3.597	10.1063/5.0012816	Closed	MML
92	Gold nanoparticles interacting with synthetic lipid rafts: an AFM investigation	Ridolfi, A; Caselli, L; Montis, C; Mangiapia, G; Berti, D; Brucale, M; Valle, F	JOURNAL OF MICROSCOPY	280	3	194	203		2020	1.575	10.1111/jmi.12910	Closed	MML
93	Direct energy deposition of TiAl for hybrid manufacturing and repair of turbine blades	Rittinghaus, S.-K., Schmelzer, J., Rackel, M.W., Hemes, S., Vogelpoth, A., Hecht, U., and Weisheit, A.	Materials	13	19			4392	2020	3.057	10.3390/ma13194392	Gold	AEM/MML
94	Thermo-mechanical characterization of NiTi orthodontic archwires with graded actuating forces	Rodrigues, PF; Fernandes, FMB; Magalhaes, R; Camacho, E; Lopes, A; Paula, AS; Basu, R; Schell, N	JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS	107				UNSP 103747	2020	3.372	10.1016/j.jmbbm.2020.103747	Closed	MML
95	In-situ strengthening of a high strength low alloy steel during Wire and Arc Additive Manufacturing (WAAM)	Rodrigues, TA; Duarte, VR; Tomas, D; Avila, JA; Escobar, JD; Rossinyol, E; Schell, N; Santos, TG; Oliveira, JP	ADDITIVE MANUFACTURING	34				101200	2020	7.002	10.1016/j.addma.2020.101200	Closed	MML
96	In-situ analysis of continuous cooling precipitation in Al alloys by wide-angle X-ray scattering	Rowolt, C; Frock, H; Milkereit, B; Reich, M; Kowalski, W; Stark, A; Kessler, O	SCIENCE AND TECHNOLOGY OF ADVANCED MATERIALS	21	1	205	218		2020	5.799	10.1080/14686996.2020.1739554	Gold	AEM/MML
97	Phase evolution of Al-Mg metal matrix composites during low temperature annealing at 200 °C and 250 °C	Sanamar S., Brokmeier H.-G., Schell N.	Intermetallics	124				106862	2020	3.398	10.1016/j.intermet.2020.106862	Closed	MML
98	Combined experimental-numerical study on residual stresses induced by a single impact as elementary process of mechanical peening	Sandmann, P; Nielsen, MA; Keller, S; Maawad, E; Staron, P; Klusemann, B	STRAIN	56	4			e12338	2020	1.313	10.1111/str.12338	Hybrid	AEM/MML

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99	Multiphase magnetism in Yb <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub>	Scheie, A.; Kindervater, J.; Zhang, S.; Changlani, H.J.; Sala, G.; Ehlers, G.; Heinemann, A.; Tucker, G.S.; Koohpayeh, S.M.; Broholm, C.	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	117	44	27245	27254		2020	9.412	10.1073/pnas.2008791117	Closed	MML
100	Experimental observation of stress formation during selective laser melting using in situ X-ray diffraction	Schmeiser, F.; Krohmer, E.; Schell, N.; Uhlmann, E.; Reimers, W	ADDITIVE MANUFACTURING	32				101028	2020	7.002	10.1016/j.addma.2019.101028	Closed	MML
101	Evaluation of the Weighted Mean X-ray Energy for an Imaging System Via Propagation-Based Phase-Contrast Imaging	Seifert, M.; Weule, M.; Cipiccia, S.; Flenner, S.; Hagemann, J.; Ludwig, V.; Michel, T.; Neumayer, P.; Schuster, M.; Wolf, A.; Anton, G.; Funk, S.; Akstaller, B	JOURNAL OF IMAGING	6	7			63	2020	0	10.3390/jimaging6070063	Gold	MML
102	Controlling intermetallic compounds formation during laser welding of NiTi to 316L stainless steel	Shamsolhodaei, A.; Oliveira, JP; Schell, N; Maawad, E; Pantan, B; Zhou, YN	INTERMETALLICS	116				106656	2020	3.398	10.1016/j.intermet.2019.106656	Closed	MML
103	<b>Elastic strain induced abnormal grain growth in graphene nanosheets (GNSs) reinforced copper (Cu) matrix composites</b>	<b>Shi H., Gan W., Esling C., Wang X., Zhang Y., Maawad E., Stark A., Li X., Wang L.,</b>	<b>Acta Materialia</b>		<b>200</b>	<b>338</b>	<b>350</b>		<b>2020</b>	<b>7.656</b>	<b>10.1016/j.actamat.2020.09.017</b>	<b>Closed</b>	<b>AEM/MML</b>
104	Work hardening and softening behavior of pure Mg influenced by Zn addition investigated via in-situ neutron diffraction	Shi, QX; Wang, CJ; Deng, KK; Nie, KB; Cao, M; Gan, WM; Liang, W	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	772				138827	2020	4.652	10.1016/j.msea.2019.138827	Closed	MML
105	The influence of iron in minimizing the microstructural anisotropy of Ti-6Al-4V produced by laser powder-bed fusion	Simonelli, M., McCartney, D.G., Barriobero-Vila, P., Aboulkhair, N.T., Tse, Y.Y., Clare, A., and Hague, R.	Metallurgical and Materials Transactions A	51	5	2444	2459		2020	2.050	10.1007/s11661-020-05692-6		MML
106	New insights into high-temperature deformation and phase transformation mechanisms of lamellar structures in high Nb-containing TiAl alloys	Song, L; Appel, F; Wang, L; Oehring, M; Hu, XG; Stark, A; He, JY; Lorenz, U; Zhang, TB; Lin, JP; Pyczak, F	ACTA MATERIALIA	186		575	586		2020	7.656	10.1016/j.actamat.2020.01.021	Closed	AEM/MML

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107	Microstructure and phase transformations of omega(o)-Ti4Al3Nb based alloys after quenching and subsequent aging at intermediate temperatures	Song, L; Wang, L; Zhang, TB; Lin, JP; Pyczak, F	JOURNAL OF ALLOYS AND COMPOUNDS	821				153387	2020	4.650	10.1016/j.jallcom.2019.153387	Closed	AEM/MML
108	A critical evaluation of microstructure-texture-mechanical behavior heterogeneity in high pressure torsion processed CoCuFeMnNi high entropy alloy	Sonkusare, R; Biswas, K; Al-Hamdany, N; Brokmeier, HG; Kalsar, R; Schell, N; Gurao, NP	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	782				139187	2020	4.652	10.1016/j.msea.2020.139187	Closed	MML
109	Determination of martensite content and mapping phase distribution on Austempered Ductile Iron using energy-selective neutron imaging	Soria, SR; Li, XH; Schulz, M; Boin, M; Hofmann, M	MATERIALS CHARACTERIZATION	166				110453	2020	3.562	10.1016/j.matchar.2020.110453	Closed	MML
110	A chondrule formation experiment aboard the ISS: Experimental set-up and test experiments	Spahr, D; Koch, TE; Merges, D; Beck, AA; Bohlender, B; Carlsson, JM; Christ, O; Fujita, S; Genzel, PT; Kerscher, J; Knautz, T; Lindner, M; Leber, DM; Milman, V; Morgenroth, W; Wilde, F; Brenker, FE; Winkler, B	ICARUS	350				113898	2020	3.513	10.1016/j.icarus.2020.113898	Closed	MML
111	Effect of Trapped Solvent on the Interface between PS-b-PMMA Thin Films and P(S-r-MMA) Brush Layers	Sparnacci, K; Chiarcos, R; Gianotti, V; Laus, M; Giammaria, TJ; Perego, M; Munao, G; Milano, G; De Nicola, A; Haese, M; Kreuzer, LP; Widmann, T; Muller-Buschbaum, P	ACS APPLIED MATERIALS & INTERFACES	12	6	7777	7787		2020	8.758	10.1021/acsami.9b20801	Closed	MML
112	Stress relaxation through thermal crack formation in CVD TiCN coatings grown on WC-Co with different Co contents	Stylianou R., Velic D., Daves W., Ecker W., Stark A., Schell N., Tkadletz M., Schalk N., Czetti C., Mitterer C.	International Journal of Refractory Metals and Hard Materials	86				105102	2020	3.407	10.1016/j.jirmhm.2019.105102	Closed	AEM/MML
113	Anisotropic fractal magnetic domain pattern in bulk Mn1.4PtSn	Sukhanov, A. S.; Cespedes, B. E. Z.; Vir, P.; Cameron, A. S.; Heinemann, A.; Martin, N.; Chaboussant, G.; Kumar, V.; Milde, P.; Eng, L.M.	PHYSICAL REVIEW B	102	17			174447	2020	3.575	10.1103/PhysRevB.102.174447	Hybrid	MML
114	Robust metastable skyrmions with tunable size in the chiral magnet FePtMo3N	Sukhanov, A. S.; Heinemann, A.; Kautzsch, L.; Bocarsly, J. D.; Wilson, S. D.; Felser, C.; Inosov, D.S.	PHYSICAL REVIEW B	102	14			140409	2020	3.575	10.1103/PhysRevB.102.140409	Hybrid	MML

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115	Self-Diffusion in 57Fe/natFe Multilayers by In Situ Neutron Reflectometry	Szilárd Sajti, Bottyán L., Moulin J.-F., Paul A.,	Journal of Surface Investigation		14	S1			2020	Scopus	10.1134/S1027451020070460	Closed	MML
116	Synergistic deformation pathways in a TWIP steel at cryogenic temperatures: In situ neutron diffraction	Tang L., Wang L., Wang M., Liu H., Kabra S., Chiu Y., Cai B.,	Acta Materialia		200	943	958		2020	Scopus	10.1016/j.actamat.2020.09.075	Closed	MML
117	Influence of spinodal decomposition and fcc → w phase transformation on global and local mechanical properties of nanolamellar CVD fcc-TiN-xAlxN coatings	Tkadletz, M; Lechner, A; Schalk, N; Sartory, B; Stark, A; Schell, N; Saringer, C; Mitterer, C; Czetti, C	MATERIALIA	11				UNSP 100696	2020	0	10.1016/j.mtla.2020.100696	Closed	AEM/MML
118	Observation of iron diffusion in the near-surface region of magnetite at 470 K	Tober, S.; Creutzburg, M.; Arndt, B.; Krausert, K.; Mattauch, S.; Koutsoubas, A.; Putter, S.; Mohd, A.S.; Volgger, L.; Hutter, H.; Noei, H.; Vonk, V.; Lott, D.; Stierle, A.	PHYSICAL REVIEW RESEARCH	2	2			23406	2020	-	10.1103/PhysRevResearch.2.023406	Hybrid	MML
119	<b>Indentation response of a superlattice thin film revealed by in-situ scanning X-ray nanodiffraction</b>	<b>Todt, J; Krywka, C; Zhang, ZL; Mayrhofer, PH; Keckes, J; Bartosik, M</b>	<b>ACTA MATERIALIA</b>	<b>195</b>		<b>425</b>	<b>432</b>		<b>2020</b>	<b>7.656</b>	<b>10.1016/j.actamat.2020.05.056</b>	Hybrid	<b>MML</b>
120	Effect of Gd and Nd Additions on the Thermo-Mechanical Response of a MgMn Alloy	Tolnai D., Gavras S., Barriobero-Vila P., Stark A., Schell N.	Minerals, Metals and Materials Series			37	42		2020	Scopus	10.1007/978-3-030-36647-6_8	Closed	AEM/MML
121	Revealing the structure of composite nanodiamond-graphene oxide aqueous dispersions by small-angle scattering	Tomchuk, OV; Avdeev, MV; Dideikin, AT; Vul', AY; Aleksenskii, AE; Kirilenko, DA; Ivankov, OI; Soloviov, DV; Kuklin, AI; Garamus, VM; Kulvelis, YV; Aksenov, VL; Bulavin, LA	DIAMOND AND RELATED MATERIALS	103				107670	2020	2.650	10.1016/j.diamond.2019.107670	Closed	MML
122	Simultaneously Enhanced Mechanical Properties and Damping Capacities of ZK60 Mg Alloys Processed by Multi-Directional Forging	Tong, L B.; Chu, J. H.; Zou, D. N.; Sun, Q.; Kamado, S.; Brokmeier, H. G.; Zheng, M. Y.	ACTA METALLURGICA SINICA-ENGLISH LETTERS	34		265	277		2020	2.090	10.1007/s40195-020-01137-6		MML
123	A laser powder bed fusion system for in situ x-ray diffraction with high-energy synchrotron radiation	Uhlmann, E; Krohmer, E; Schmeiser, F; Schell, N; Reimers, W	REVIEW OF SCIENTIFIC INSTRUMENTS	91	7	1	17	75104	2020	1.480	10.1063/1.5143766	Green	MML
124	Effect of kind of deformation on young's modulus, damage parameter, texture and structure of alloy Mg - 5% Li (wt)	Usov V., Brokmeier H.-G., Shkatulyak N., Savchuk E., Schell N.	East European Journal of Physics	2020	1	83	95		2020	Scopus	10.26565/2312-4334-2020-1-07	Gold	MML

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125	In operando monitoring of wood transformation during pretreatment with ionic liquids	Viell, J; Szekely, NK; Mangiapia, G; Hovelmann, C; Marks, C; Frielinghaus, H	CELLULOSE	27	9	4889	4907		2020	4.210	10.1007/s10570-020-03119-4	Hybrid	MML
126	3D printed spherical environmental chamber for neutron reflectometry and grazing-incidence small-angle neutron scattering experiments	Widmann, T.; Kreuzer, L. P.; Mangiapia, G.; Haese, M.; Frielinghaus, H.; Müller-Buschbaum, P.	REVIEW OF SCIENTIFIC INSTRUMENTS	11	91	113903			2020	1.740	10.1063/5.0012652	Closed	MML
127	An in situ and ex situ study of chi phase formation in a hypoeutectic Fe-based hardfacing alloy	Wieczerek, K; Michle, J; Wheeler, JM; Lech, S; Chulist, R; Gondek, L; Czub, J; Hoser, A; Schell, N; Bala, P	MATERIALS & DESIGN	188				108438	2020	6.289	10.1016/j.matdes.2019.108438	Gold	MML
128	Novel intermetallic-reinforced near-alpha Ti alloys manufactured by spark plasma sintering	Wimmler, D; Lindemann, J; Gammer, C; Spoerk-Erdely, P; Stark, A; Clemens, H; Mayer, S	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	792				139798	2020	4.652	10.1016/j.msea.2020.139798	Hybrid	AEM/MML
129	Adhesion and Surface Layers on Silicon Anodes Suppress Formation of c-Li3.75Si and Solid-Electrolyte Interphase	Xie, HZ; Sayed, SY; Kalisvaart, WP; Schaper, SJ; Muller-Buschbaum, P; Lubner, EJ; Olsen, BC; Haese, M; Buriak, JM	ACS APPLIED ENERGY MATERIALS	3	2	1609	1616		2020	4.473	10.1021/acsaem.9b02090	Closed	AEM/MML
130	In situ compressive investigations on the effects of solid solution Gd on the texture and lattice strain evolution of Mg	Xu, YL; Huang, YD; Zhong, ZY; You, SH; Gan, WM; Xiao, BQ; Maawad, E; Schell, N; Gensch, F; Pan, FS; Hort, N	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	774				138938	2020	4.652	10.1016/j.msea.2020.138938	Closed	AEM/MML
131	Influence of the Molecular Weight and the Presence of Calcium Ions on the Molecular Interaction of Hyaluronan and DPPC	Zander, T.; Garamus, V.; Dedinaitė, A.; Claesson, P.; Beldowski, P.; Gorny, K.; Dendzik, Z.; Wieland, F.; Willumeit-Römer, R.	Molecules	25	17	3907			2020	3.060	10.3390/molecules25173907	Gold	AEM/MML
132	<b>Revealing the interfacial nanostructure of a deep eutectic solvent at a solid electrode</b>	<b>Zec, N; Mangiapia, G; Zheludkevich, ML; Busch, S; Moulin, JF</b>	<b>PHYSICAL CHEMISTRY CHEMICAL PHYSICS</b>	<b>22</b>	<b>21</b>	<b>12104</b>	<b>12112</b>		<b>2020</b>	<b>3.430</b>	<b>10.1039/c9cp06779e</b>	<b>Hybrid</b>	<b>AEM/MML</b>

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133	Nanotomographic evaluation of precipitate structure evolution in a Mg-Zn-Zr alloy during plastic deformation	Zeller-Plumhoff B, Robisch A.-L, Pelliccia D, Longo E, Slominska H, Hermann A, Krenkel M, Storm M, Estrin Y, Willumeit-Römer R, Salditt T, Orlov D,	Scientific Reports		10	16101			2020	3.998	10.1038/s41598-020-72964-x	Gold	AEM/MML
134	Analysis of the bone ultrastructure around biodegradable Mg-xGd implants using small angle X-ray scattering and X-ray diffraction	Zeller-Plumhoff, B; Malich, C; Kruger, D; Campbell, G; Wiese, B; Galli, S; Wennerberg, A; Willumeit-Römer, R; Wieland, DCF	ACTA BIOMATERIALIA	101		637	645		2020	7.242	10.1016/j.actbio.2019.11.030	Hybrid	MML
135	Wire and arc additive manufacturing of a Ni-rich NiTi shape memory alloy: Microstructure and mechanical properties	Zeng, Z; Cong, BQ; Oliveira, JP; Ke, WC; Schell, N; Peng, B; Qi, ZW; Ge, FG; Zhang, W; Ao, SS	ADDITIVE MANUFACTURING	32				101051	2020	7.002	10.1016/j.addma.2020.101051	Closed	MML
136	Microscopic stresses in carbon nanotube reinforced aluminum matrix composites determined by in-situ neutron diffraction	Zhang, XX; Zhang, JF; Liu, ZY; Gan, WM; Hofmann, M; Andra, H; Xiao, BL; Ma, ZY	JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY	54		58	68		2020	6.155	10.1016/j.jmst.2020.04.016	Closed	MML
137	Performance and behavior of LLZO-based composite polymer electrolyte for lithium metal electrode with high capacity utilization	Zhou D., Zhang M., Sun F., Arlt T., Frerichs J.E., Dong K., Wang J., Hilger A., Wilde F., Kolek M., Hansen M.R., Bieker P., Manke I., Stan M.C., Winter M.	Nano Energy	77				105196	2020	16.602	10.1016/j.nanoen.2020.105196	Closed	MML
138	Texture and Lattice Strain Evolution during Tensile Loading of Mg-Zn Alloys Measured by Synchrotron Diffraction	Zhou, XH; Ha, CW; Yi, SB; Bohlen, J; Schell, N; Chi, YQ; Zheng, MY; Brokmeier, HG	METALS	10	1			124	2020	2.117	10.3390/met10010124	Gold	AEM/MML
139	Neither cortical nor trabecular: An unusual type of bone in the heavy-load-bearing lower pharyngeal jaw of the black drum (Pogonias cromis)	Ziv, E; Milgram, J; Davis, J; Soares, A; Wilde, F; Zaslansky, P; Shahar, R	ACTA BIOMATERIALIA	104		28	38		2020	7.242	10.1016/j.actbio.2020.01.010	Closed	MML

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1	Performance evaluation of Eta/HadGEM2-ES and Eta/MIROC5 precipitation simulations over Brazil	Almagro, A; Oliveira, PTS; Rosolem, R; Hagemann, S; Nobre, CA	ATMOSPHERIC RESEARCH	244				105053	2020	4.676	10.1016/j.atmosres.2020.105053	Closed	PACES II
2	Assessment of spatio-temporal landscape changes from VHR images in three different permafrost areas in the western russian arctic	Ardelean, F., Onaca, A., Chețan, M. -, Dornik, A., Georgievski, G., Hagemann, S., Berzescu, O.	Remote Sensing	12	23	1	27		2020	Scopus	10.3390/rs12233999	Gold	PACES II
3	Airborne LiDAR Measurements of Sea Surface Properties in the German Bight	Bärfuss, K., Djath, B., Lampert, A., & Schulz-Stellenfleth, J.	IEEE Transactions on Geoscience and Remote Sensing,						2020	5.855	10.1109/TGRS.2020.3017861	Closed	PACES II
4	Turbulence asymmetries in bottom boundary layer velocity pulses associated with onshore-propagating nonlinear internal waves	Becherer J., Moum J.N., Colosi J.A., Lerczak J.A., McSweeney J.M.	Journal of Physical Oceanography	50	8	2373	2391		2020	3.318	10.1175/JPO-D-19-0178.1	Green	PACES II
5	On the role of biogeochemical coupling between sympagic and pelagic ecosystem compartments for primary and secondary production in the barents sea	Benkort, D., Daewel, U., Heath, M., & Schrum, C.	Frontiers in Environmental Science	8					2020	Scopus	10.3389/fenvs.2020.548013	Gold	PACES II
6	Arctic and Nordic krill circuits of production revealed by the interactions between their physiology, swimming behaviour and circulation	Benkort, D; Lavoie, D; Plourde, S; Dufresne, C; Maps, F	PROGRESS IN OCEANOGRAPHY	182				102270	2020	4.060	10.1016/j.pocean.2020.102270	Closed	PACES II
7	Multi Model Study on the Impact of Emissions on CTMs	Bieser J., Ramacher M.O.P., Prank M., Solazzo E., Uppstu A.	Springer Proceedings in Complexity			309	315		2020	Scopus	10.1007/978-3-030-22055-6_49	Closed	PACES II
8	<b>Atmospheric mercury in the Southern Hemisphere – Part 2: Source apportionment analysis at Cape Point station, South Africa</b>	<b>Bieser, J., Angot, H., Slemr, F., &amp; Martin, L.</b>	<b>Atmos. Chem. Phys.,</b>	<b>20</b>		<b>10427</b>	<b>10439</b>		<b>2020</b>	<b>Scopus</b>	<b>10.5194/acp-20-10427-2020</b>	Gold	PACES II
9	Sea-state contributions to sea-level variability in the european seas	Bonaduce, A., Staneva, J., Grayek, S., Bidlot, J., & Breivik, Ø.	Ocean Dynamics	70	12	1547	1569		2020	Scopus	10.1007/s10236-020-01404-1	Hybrid	PACES II
10	Proxy surrogate reconstructions for Europe and the estimation of their uncertainties	Bothe, O; Zorita, E	CLIMATE OF THE PAST	16	1	341	369		2020	3.536	10.5194/cp-16-341-2020	Gold	PACES II



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11	Nitrate sources and the effect of land cover on the isotopic composition of nitrate in the catchment of the Rhone River	Bratek, A; Emeis, KC; Sanders, T; Wankel, SD; Struck, U; Mobius, J; Dahnke, K	ISOTOPES IN ENVIRONMENTAL AND HEALTH STUDIES	56	1	14	35		2020	1.652	10.1080/10256016.2020.1723580	Closed	PACES II
12	Spatial variations in sedimentary N-transformation rates in the North Sea (German Bight)	Bratek, A; van Beusekom, JEE; Neumann, A; Sanders, T; Friedrich, J; Emeis, KC; Dahnke, K	BIOGEOSCIENCES	17	10	2839	2851		2020	3.480	10.5194/bg-17-2839-2020	Gold	PACES II
13	Surface viscous stress over wind-driven waves with intermittent airflow separation	Buckley, MP (Buckley, M. P.); Veron, F (Veron, F.); Yousefi, K (Yousefi, K.)	JOURNAL OF FLUID MECHANICS	905				A31	2020	Scopus	10.1017/jfm.2020.760	Hybrid	PACES II
14	Integrated stratigraphy of active foreland salt-marsh sediments of the south-eastern North Sea region	Bunzel, B., Milker, Y., Müller-Navarra, K., Arz, H.W., Friedrich, J., Lahajnar, N., & Schmiedl, G.	Newsletters on Stratigraphy	53	4	415	442		2020	Scopus	10.1127/nos/2020/0540	Hybrid	PACES II
15	Egg size and density estimates for three gadoids in Icelandic waters and their implications for the vertical distribution of eggs along a stratified water column	Butler, WE; Guomundsdottir, LO; Logemann, K; Langbehn, TJ; Marteinsdottir, G	JOURNAL OF MARINE SYSTEMS	204				103290	2020	2.528	10.1016/j.jmarsys.2019.103290	Closed	PACES II
16	Offshore wind farm wake recovery: Airborne measurements and its representation in engineering models	Canadillas, B; Foreman, R; Barth, V; Siedersleben, S; Lampert, A; Platis, A; Djath, B; Schulz-Stellenfleth, J; Bange, J; Emeis, S; Neumann, T	WIND ENERGY	23	5	1249	1265		2020	2.646	10.1002/we.2484	Closed	PACES II
17	Operational Modeling Capacity in European Seas—An EuroGOOS Perspective and Recommendations for Improvement	Capet A., Fernández V., She J., Dabrowski T., Umgiesser G., Staneva J., Mészáros L., Campuzano F., Ursella L., Nolan G., El Serafy G.	Frontiers in Marine Science	7				129	2020	3.661	10.3389/fmars.2020.00129	Gold	PACES II
18	Maker Buoy Variants for Water Level Monitoring and Tracking Drifting Objects in Remote Areas of Greenland	Carlson, DF; Pavalko, WJ; Petersen, D; Olsen, M; Hass, AE	SENSORS	20	5			1254	2020	3.275	10.3390/s20051254	Gold	PACES II
19	Shear instability and turbulence within a submesoscale front following a storm.	Carpenter, J. R., Rodrigues, A., Schultze, L. K. P., Merckelbach, L. M., Suzuki, N., Baschek, B., & Umlauf, L.	Geophysical Research Letters	47	23				2020	Scopus	10.1029/2020GL090365	Hybrid / DEAL	PACES II
20	Motion of buoyant point vortices	Carpenter, JR; Guha, A	PHYSICAL REVIEW FLUIDS	5	6			64702	2020	2.512	10.1103/PhysRevFluids.5.064702	Green	PACES II
21	Sensitivity Studies for a Hybrid Numerical-Statistical Short-Term Wind and Gust Forecast at Three Locations in the Basque Country (Spain)	Carreno-Madinabeitia, S; Ibarra-Berastegi, G; Saenz, J; Zorita, E; Ulazia, A	ATMOSPHERE	11	1			45	2020	2.397	10.3390/atmos11010045	Gold	PACES II

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22	The ECCO-Darwin Data-assimilative Global Ocean Biogeochemistry Model: Estimates of Seasonal to Multi-decadal Surface Ocean pCO <sub>2</sub> and Air-sea CO <sub>2</sub> Flux	Carroll, D., Menemenlis, D., Adkins, J.F., Bowman, K.W., Brix, H., Dutkiewicz, S., Fenty, I., Gierach, M.M., Hill, C., Jahn, O., Landschützer, P., Lauderdale, J.M., Liu, J., Manizza, M., Naviaux, J.D., Rödenbeck, C., Schimel, D.S., Van der Stocken, T., & Zhang, H.	Journal of Advances in Modeling Earth Systems	12	10				2020	Scopus	10.1029/2019MS001888	Gold	PACES II
23	Processes of Stratification and Destratification During An Extreme River Discharge Event in the German Bight ROFI	Chegini F., Holtermann P., Kerimoglu O., Becker M., Kreus M., Klingbeil K., Gräwe U., Winter C., Burchard H.	Journal of Geophysical Research: Oceans	125	8			e2019JC015	2020	3.559	10.1029/2019JC015987	Hybrid	PACES II
24	35 Years of Vegetation and Lake Dynamics in the Pechora Catchment, Russian European Arctic	Chelan, MA; Dornik, A; Ardelean, F; Georgievski, G; Hagemann, S; Romanovsky, VE; Onaca, A; Drozdov, DS	REMOTE SENSING	12	11			1863	2020	4.509	10.3390/rs12111863	Gold	PACES II
25	Depositional Characteristics and Formation Mechanisms of Deep-Water Canyon Systems along the Northern South China Sea Margin	Chen H., Xie X., Mao K., He Y., Su M., Zhang W.	Journal of Earth Science	31	4	808	819		2020	2.209	10.1007/s12583-020-1284-z	Closed	PACES II
26	Rapid wavelet-based bathymetry inversion method for nearshore X-band radars	Chernyshov, P; Vrecica, T; Stresser, M; Carrasco, R; Toledo, Y	REMOTE SENSING OF ENVIRONMENT	240				111688	2020	9.085	10.1016/j.jrse.2020.111688	Closed	PACES II
27	Quantitative speciation of volatile sulphur compounds from human cadavers by GC-ICP-MS	Clases, D., Ueland, M., de Vega, R.G., Doble, P., & Pröfrock	Talanta	221				12424	2020	Scopus	10.1016/j.talanta.2020.121424	Closed	PACES II
28	Influence of late Quaternary climate on the biogeography of Neotropical aquatic species as reflected by non-marine ostracodes	Cohuo, S; Macario-Gonzalez, L; Wagner, S; Naumann, K; Echeverria-Galindo, P; Perez, L; Curtis, J; Brenner, M; Schwalb, A	BIOGEOSCIENCES	17	1	145	161		2020	3.480	10.5194/bg-17-145-2020	Gold	PACES II
29	Source apportionment of atmospheric mercury in the remote marine atmosphere: Mace Head GAW station, Irish western coast	Custodio, D; Ebinghaus, R; Spain, TG; Bieser, J	ATMOSPHERIC CHEMISTRY AND PHYSICS	20	13	7929	7939		2020	5.414	10.5194/acp-20-7929-2020	Gold	PACES II
30	Understanding the Role of Organic Matter Cycling for the Spatio-Temporal Structure of PCBs in the North Sea	Daewel, U; Yakushev, EV; Schrum, C; Nizzetto, L; Mikheeva, E	WATER	12	3			817	2020	2.544	10.3390/w12030817	Gold	PACES II

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31	Phytoplankton Biomass Dynamics in Tropical Coastal Waters of Jakarta Bay, Indonesia in the Period between 2001 and 2019	Damar, A (Damar, Ario); Colijn, F (Colijn, Franciscus); Hesse, KJ (Hesse, Karl-Juergen); Adrianto, L (Adrianto, Luky); Yonvitner (Yonvitner); Fahrudin, A (Fahrudin, Achmad); Kurniawan, F (Kurniawan, Fery); Prismayanti, AD (Prismayanti, Ageng Dwi); Rahayu, SM (Rahayu, Siti Mira); Rudianto, BY (Rudianto, Bambang Yudho); Ramli, A (Ramli, Agus)	JOURNAL OF MARINE SCIENCE AND ENGINEERING	8	9			674	2020	Scopus	10.3390/jmse8090674	Gold	PACES II
32	Coastal Phytoplankton Pigments Composition in Three Tropical Estuaries of Indonesia	Damar, A; Colijn, F; Hesse, KJ; Kurniawan, F	JOURNAL OF MARINE SCIENCE AND ENGINEERING	8	5			311	2020	2.033	10.3390/jmse8050311	Gold	PACES II
33	Toward a Harmonization for Using in situ Nutrient Sensors in the Marine Environment	Daniel, A; Laes-Huon, A; Barus, C; Beaton, AD; Blandfort, D; Guigues, N; Knockaert, M; Muraron, D; Salter, I; Woodward, EMS; Greenwood, N; Achterberg, EP	FRONTIERS IN MARINE SCIENCE	6				773	2020	3.661	10.3389/fmars.2019.00773	Gold	PACES II
34	Advances in Observing and Understanding Small-Scale Open Ocean Circulation During the Gulf of Mexico Research Initiative Era	D'Asaro, EA; Carlson, DF; Chamecki, M; Harcourt, RR; Haus, BK; Fox-Kemper, B; Molemaker, MJ; Poje, AC; Yang, D	FRONTIERS IN MARINE SCIENCE	7				349	2020	3.661	10.3389/fmars.2020.00349	Gold	PACES II
35	Possible impacts of anthropogenic climate change to the upwelling in the South Brazil Bight	de Souza, MM; Mathis, M; Mayer, B; Noernberg, MA; Pohlman, T	CLIMATE DYNAMICS	55	3-4	651	664		2020	4.486	10.1007/s00382-020-05289-0	Hybrid	PACES II
36	Irrigation and hydrometeorological extremes	de Vrese, P; Stacke, T	CLIMATE DYNAMICS	55	5-6	1521	1537		2020	4.486	10.1007/s00382-020-05337-9	Hybrid	PACES II
37	Spatial variations in CO2 fluxes in the Saguenay Fjord (Quebec, Canada) and results of a water mixing model	Delaigue, L; Thomas, H; Mucci, A	BIOGEOSCIENCES	17	2	547	566		2020	3.480	10.5194/bg-17-547-2020	Gold	PACES II
38	A RIP-based SAR retracker and its application in North East Atlantic with Sentinel-3	Dinardo S., Fenoglio-Marc L, Becker M., Scharroo R., Fernandes M.J., Staneva J., Grayek S., Benveniste J.	Advances in Space Research						2020	2.177	10.1016/j.asr.2020.06.004	Closed	PACES II
39	Historical and future changes in global flood magnitude - evidence from a model-observation investigation	Do, HX; Zhao, F; Westra, S; Leonard, M; Gudmundsson, L; Boulange, JES; Chang, JF; Ciais, P; Gerten, D; Gosling, SN; Schmied, HM; Stacke, T; Telteu, CE; Wada, Y	HYDROLOGY AND EARTH SYSTEM SCIENCES	24	3	1543	1564		2020	5.153	10.5194/hess-24-1543-2020	Gold	PACES II

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40	Impact of Contrasted Weather Conditions on CDOM Absorption/Fluorescence and Biogeochemistry in the Eastern Lagoon of New Caledonia	Dupouy, C; Rottgers, R; Tedetti, M; Frouin, R; Lantoine, F; Rodier, M; Martias, C; Goutx, M	FRONTIERS IN EARTH SCIENCE	8				54	2020	2.689	10.3389/feart.2020.00054	Gold	PACES II
41	Managing marine resources sustainably: A proposed integrated systems analysis approach	Elliott M., Borja Á., Cormier R.	Ocean and Coastal Management	197				105315	2020	2.482	10.1016/j.ocecoaman.2020.105315	Closed	PACES II
42	Activity-footprints, pressures-footprints and effects-footprints – Walking the pathway to determining and managing human impacts in the sea	Elliott, M; Borja, A; Cormier, R	MARINE POLLUTION BULLETIN	155				111201	2020	4.049	10.1016/j.marpolbul.2020.111201	Closed	PACES II
43	Snow cover duration trends observed at sites and predicted by multiple models.	Essery, R., Kim, H., Wang, L., Bartlett, P., Boone, A., Brutel-Vuilmet, C., Yuan, H.	Cryosphere	14	12	4687	4698		2020	Scopus	10.5194/tc-14-4687-2020	Gold	PACES II
44	Earth System Model Evaluation Tool (ESMValTool) v2.0 – An extended set of large-scale diagnostics for quasi-operational and comprehensive evaluation of Earth system models in CMIP	Eyring V., Bock L., Lauer A., Righi M., Schlund M., Andela B., Arnone E., Bellprat O., Carvalhais N., Cionni I., Cortesi N., Crezee B., L. Davin E., Davini P., Debeire K., De Mora L., Deser C., Docquier D., Earnshaw P., Ehbrecht C., K. Gier B., Gonzalez-Reviriego N., Goodman P., Hagemann S., Hardiman S., Hassler B., Hunter A., Kadow C., Kindermann S., Koirala S., Koldunov N., Lejeune Q., Lembo V., Lovato T., Lucarini V., Müller B., Pandde A., Phillips A., Predoi V., Russell J., Sellar A., Serva F., Stacke T., Swaminathan R., Vegas-Regidor J., Von Hardenberg J., Weigel K., Zimmermann K.	Geoscientific Model Development	13	7	3383	3438	155	2020	5.240	10.5194/gmd-13-3383-2020	Gold	PACES II

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45	Fire hazard modulation by long-term dynamics in land cover and dominant forest type in eastern and central Europe	Feurdean, A; Vanniere, B; Finsinger, W; Warren, D; Connor, SC; Forrest, M; Liakka, J; Panait, A; Werner, C; Andric, M; Bobek, P; Carter, VA; Davis, B; Diaconu, AC; Dietze, E; Feeser, I; Florescu, G; Galka, M; Giesecke, T; Jahns, S; Jamrichova, E; Kajukalo, K; Kaplan, J; Karpinska-Kolaczek, M; Kolaczek, P; Kunes, P; Kupriyanov, D; Lamentowicz, M; Lemmen, C; Magyari, EK; Marcisz, K; Marinova, E; Niamir, A; Novenko, E; Obremaska, M; Pedziszewska, A; Pfeiffer, M; Poska, A; Rosch, M; Slowinski, M; Stancikaite, M; Szal, M; Swieta-Musznicka, J; Tantau, I; Theuerkauf, M; Tonkov, S; Valko, O; Vassiljev, J; Veski, S; Vincze, I; Wacnik, A; Wiethold, J; Hickler, T	BIOGEOSCIENCES	17	4	1213	1230		2020	3.480	10.5194/bg-17-1213-2020	Gold	PACES II
46	Marine Spatial Planning in the Benguela Current Large Marine Ecosystem	Finke, G; Gee, K; Gxaba, T; Sorgenfrei, R; Russo, V; Pinto, D; Nsiangango, SE; Sousa, LN; Braby, R; Alves, FL; Heinrichs, B; Kreiner, A; Amunyela, M; Popose, G; Ramakulukusha, M; Naidoo, A; Mausolf, E; Nsingi, KK	ENVIRONMENTAL DEVELOPMENT	36				100569	2020	Scopus	10.1016/j.jenvdev.2020.10.0569	Hybrid	PACES II
47	Operating Cabled Underwater Observatories in Rough Shelf-Sea Environments: A Technological Challenge	Fischer, P; Brix, H; Baschek, B; Kraberg, A; Brand, M; Cisewski, B; Riethmuller, R; Breitbach, G; Moller, KO; Gattuso, JP; Alliouane, S; van de Poll, WH; Witbaard, R	FRONTIERS IN MARINE SCIENCE	7				551	2020	3.661	10.3389/fmars.2020.00551	Gold	PACES II
48	Increased control of vegetation on global terrestrial energy fluxes	Forzieri, G; Miralles, DG; Ciais, P; Alkama, R; Ryu, Y; Duveiller, G; Zhang, K; Robertson, E; Kautz, M; Martens, B; Jiang, CY; Arnett, A; Georgievski, G; Li, W; Ceccherini, G; Anthoni, P; Lawrence, P; Wiltshire, A; Pongratz, J; Piao, SL; Sitoh, S; Goll, DS; Arora, VK; Lienert, S; Lombardozi, D; Kato, E; Nabel, JEMS; Tian, HQ; Friedlingstein, P; Cescatti, A	NATURE CLIMATE CHANGE	10	4	356	+		2020	20.893	10.1038/s41558-020-0717-0	Closed	PACES II

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49	Performance evaluation of global hydrological models in six large pan-arctic watersheds	Gädeke, A., Krysanova, V., Aryal, A., Chang, J., Grillakis, M., Hanasaki, N., Thonicke, K.	Climatic Change	16	3	1329	1351		2020	Scopus	10.1007/s10584-020-02892-2	Hybrid	PACES II
50	Sinking Organic Particles in the Ocean-Flux Estimates From in situ Optical Devices	Giering, SLC; Cavan, EL; Basedow, SL; Briggs, N; Burd, AB; Darroch, LJ; Guidi, L; Irsson, JO; Iversen, MH; Kiko, R; Lindsay, D; Marcolin, CR; McDonnell, AMP; Moller, KO; Passow, U; Thomalla, S; Trull, TW; Waite, AM	FRONTIERS IN MARINE SCIENCE	6				834	2020	3.661	10.3389/fmars.2019.00834	Gold	PACES II
51	<b>Extreme storm tides in the German Bight (North Sea) and their potential for amplification</b>	<b>Grabemann, I; Gaslikova, I; Brodhagen, T; Rudolph, E</b>	<b>NATURAL HAZARDS AND EARTH SYSTEM SCIENCES</b>	<b>20</b>	<b>7</b>	<b>1985</b>	<b>2000</b>		<b>2020</b>	<b>3.102</b>	<b>10.5194/nhess-20-1985-2020</b>	Gold	<b>PACES II</b>
52	High Resolution Discharge Simulations Over Europe and the Baltic Sea Catchment	Hagemann, S; Stacke, T; Ho-Hagemann, HM	FRONTIERS IN EARTH SCIENCE	8				12	2020	2.689	10.3389/feart.2020.00012	Gold	PACES II
53	Secondary circulation in shallow ocean straits: Observations and numerical modeling of the Danish Straits	Haid, V; Stanev, EV; Pein, J; Staneva, J; Chen, W	OCEAN MODELLING	148				101585	2020	3.215	10.1016/j.ocemod.2020.101585	Hybrid	PACES II
54	Spatial and seasonal variations of organic corrosion inhibitors in the Pearl River, South China: Contributions of sewage discharge and urban rainfall runoff	Han, X; Xie, ZY; Tian, YH; Yan, W; Miao, L; Zhang, LL; Zhu, XW; Xu, WH	ENVIRONMENTAL POLLUTION	262				114321	2020	6.792	10.1016/j.envpol.2020.114321	Closed	PACES II
55	Wave interactions in neutrally stable shear layers: Regular and singular modes, and non-modal growth	Heifetz, E; Guha, A; Carpenter, JR	PHYSICS OF FLUIDS	32	7			74106	2020	3.514	10.1063/5.0011351	Green	PACES II
56	On the opposing roles of the Boussinesq and non-Boussinesq baroclinic torques in surface gravity wave propagation	Heifetz, E; Maor, R; Guha, A	QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL SOCIETY	146	727	1056	1064		2020	3.471	10.1002/qj.3719	Green	PACES II
57	A Nanoplastic Sampling and Enrichment Approach by Continuous Flow Centrifugation	Hildebrandt L., Mitrano D.M., Zimmermann T., Pröfrock D.	Frontiers in Environmental Science	8				89	2020	2.749	10.3389/fenvs.2020.00089	Gold	PACES II
58	A metrologically traceable protocol for the quantification of trace metals in different types of microplastic	Hildebrandt, L; von der Au, M; Zimmermann, T; Reese, A; Ludwig, J; Profrock, D	PLOS ONE	15	7			e0236120	2020	2.740	10.1371/journal.pone.0236120	Gold	PACES II

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59	Multi-Domain Design Structure Matrix Approach Applied to Urban System Modeling	Hoffmann, P., Nomaguchi, Y., Hara, K., Sawai, K., Gasser, I., Albrecht, M., Bechtel, B., Fischereit, J., Fujita, K., Gaffron, P., Krefis, A.C., Quante, M., Scheffran, J., Schlünzen, K.H., & Szombathely, M. von	Urban Sci.	4	2			28	2020	-	10.3390/urbansci4020028	Gold	PACES II
60	Internal Model Variability of the Regional Coupled System Model GCOAST-AHOI	Ho-Hagemann, HM; Hagemann, S; Grayek, S; Petrik, R; Rockel, B; Staneva, J; Feser, F; Schrum, C	ATMOSPHERE	11	3			227	2020	2.397	10.3390/atmos11030227	Gold	PACES II
61	Review article: How does glacier discharge affect marine biogeochemistry and primary production in the Arctic?	Hopwood, MJ; Carroll, D; Dunse, T; Hodson, A; Holding, JM; Iriarte, JL; Ribeiro, S; Achterberg, EP; Cantoni, C; Carlson, DF; Chierici, M; Clarke, JS; Cozzi, S; Fransson, A; Juul-Pedersen, T; Winding, MHS; Meire, L	CRYOSPHERE	14	4	1347	1383		2020	4.713	10.5194/tc-14-1347-2020	Gold	PACES II
62	Human exposure to polychlorinated biphenyls embodied in global fish trade	Huang, T., Ling, Z., Ma, J., Macdonald, R.W., Gao, H., Tao, S., Tian, C., Song, S., Jiang, W., Chen, L., Chen, K., Xie, Z., Zhao, Y., Zhao, L., Gu, C., & Mao, X.	Nature Food	1	5				2020	-	10.1038/s43016-020-0066-1	Closed	PACES II
63	Multi-model Assessment of Air Pollution-Related Premature Mortality in Europe and U.S.: Domestic Versus Foreign Contributions	Im U., Brandt J., Geels C., Hansen K.M., Christensen J.H., Andersen M.S., Solazzo E., Kioutsioukis I., Alyuz U., Balzarini A., Baro R., Bellasio R., Bianconi R., Bieser J., Colette A., Curci G., Farrow A., Flemming J., Fraser A., Jimenez-Guerrero P., Kitwiroon N., Liang C.-K., Nopmongcol U., Pirovano G., Pozzoli L., Prank M., Rose R., Sokhi R., Tuccella P., Unal A., Vivanco M.G., West J., Yarwood G., Hogrefe C., Galmarini S.	Springer Proceedings in Complexity			461	467		2020	Scopus	10.1007/978-3-030-22055-6_73	Closed	PACES II

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64	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community	Jacob, D., Teichmann, C., Sobolowski, S., Katragkou, E., Anders, I., Belda, M., Benestad, R., Boberg, F., Buonomo, E., Cardoso, R.M., Casanueva, A., Christensen, O.B., Hesselbjerg Christensen, J., Coppola, E., De Cruz, L., Davin, E.L., Dobler, A., Domínguez, M., Fealy, R., Fernandez, J., Gaertner, M.A., García-Díez, M., Giorgi, F., Gobiet, A., Goergen, K., Gómez-Navarro, J.J., González Alemán, J.J., Gutiérrez, C., Gutiérrez, J.M., Güttler, I., Haensler, A., Halenka, T., Jerez, S., Jiménez-Guerrero, P., Jones, R.G., Keuler, K., Kjellström, E., Knist, S., Kotlarski, S., Maraun, D., Meijgaard, E. van, Mercogliano, P., Montávez, J.P., Navarra, A., Nikulin, G., Noblet-Ducoudré, N. de, Panitz, H.-J., Pfeifer, S., Piazza, M., Pichelli, E., Pietikäinen, J.-P., Prein, A.F., Preuschmann, S., Rechid, D., Rockel, B., Romera, R., Sánchez, F., Sieck, K., Soares	Reg Environ Change	20	2				2020	3.481	10.1007/s10113-020-01606-9	Hybrid / DEAL	PACES II / GERI
65	Predictive Skill Assessment for Land Water Storage in CMIP5 Decadal Hindcasts by a Global Reconstruction of GRACE Satellite Data	Jensen, L; Eicker, A; Stacke, T; Dobsław, H	JOURNAL OF CLIMATE	33	21	9497	9509		2020	Scopus	10.1175/JCLI-D-20-0042.1	Green	PACES II
66	<b>Transport of Legacy Perfluoroalkyl Substances and the Replacement Compound HFPO-DA through the Atlantic Gateway to the Arctic Ocean-Is the Arctic a Sink or a Source?</b>	<b>Joerss H., Xie Z., Wagner C.C., von Appen W.-J., Sunderland E.M., Ebinghaus R.</b>	<b>Environmental science &amp; technology</b>	<b>54</b>	<b>16</b>	<b>9958</b>	<b>9967</b>		<b>2020</b>	<b>7.864</b>	<b>10.1021/acs.est.0c00228</b>	Closed	<b>PACES II</b>
67	Per- and polyfluoroalkyl substances in Chinese and German river water - Point source- and country-specific fingerprints including unknown precursors	Joerss, H (Joerss, Hanna); Schramm, TR (Schramm, Thekla-Regine); Sun, LT (Sun, Linting); Guo, C (Guo, Chao); Tang, JH (Tang, Jianhui); Ebinghaus, R (Ebinghaus, Ralf)	ENVIRONMENTAL POLLUTION	267				115567	2020	6.792	10.1016/j.envpol.2020.115567	Closed	PACES II
68	Modeling of Leisure Craft Emissions	Johansson L, Jalkanen J.-P., Fridell E., Maljutenko I, Ytreberg E., Eriksson M., Roth E., Fischer V.	Springer Proceedings in Complexity			205	210		2020	Scopus	10.1007/978-3-030-22055-6_32	Closed	PACES II



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69	Modeling of the Concentrations of Ultrafine Particles in the Plumes of Ships in the Vicinity of Major Harbors	Karl, M; Pirjola, L; Karppinen, A; Jalkanen, JP; Ramacher, MOP; Kukkonen, J	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	17	3			777	2020	2.468	10.3390/ijerph17030777	Gold	PACES II
70	Holocene global mean surface temperature, a multi-method reconstruction approach	Kaufman, D; McKay, N; Routson, C; Erb, M; Datwyler, C; Sommer, PS; Heiri, O; Davis, B	SCIENTIFIC DATA	7	1			201	2020	5.541	10.1038/s41597-020-0530-7	Gold	PACES II
71	A global database of Holocene paleotemperature records	Kaufman, D; McKay, N; Routson, C; Erb, M; Davis, B; Heiri, O; Jaccard, S; Tierney, J; Datwyler, C; Axford, Y; Brussel, T; Cartapanis, O; Chase, B; Dawson, A; de Vernal, A; Engels, S; Jonkers, L; Marsicek, J; Moffa-Sanchez, P; Morrill, C; Orsi, A; Rehfeld, K; Saunders, K; Sommer, PS; Thomas, E; Tonello, M; Toth, M; Vachula, R; Andreev, A; Bertrand, S; Biskaborn, B; Bringue, M; Brooks, S; Caniupan, M; Chevalier, M; Cwynar, L; Emile-Geay, J; Fegyveresi, J; Feurdean, A; Finsinger, W; Fortin, MC; Foster, L; Fox, M; Gajewski, K; Grosjean, M; Hausmann, S; Heinrichs, M; Holmes, N; Ilyashuk, B; Ilyashuk, E; Juggins, S; Khider, D; Koinig, K; Langdon, P; Larocque-Tobler, I; Li, JY; Lotter, A; Luoto, T; Mackay, A; Magyari, E; Malevich, S; Mark, B; Massafiero, J; Montade, V; Nazarova, I; Novenko, E; Paril, P	SCIENTIFIC DATA	7	1			115	2020	5.541	10.1038/s41597-020-0445-3	Gold	PACES II Dublette
72	Interactive impacts of meteorological and hydrological conditions on the physical and biogeochemical structure of a coastal system	Kerimoglu, O (Kerimoglu, Onur); Voynova, YG (Voynova, Yoana G.); Chegini, F (Chegini, Fatemeh); Brix, H (Brix, Holger); Callies, U (Callies, Ulrich); Hofmeister, R (Hofmeister, Richard); Klingbeil, K (Klingbeil, Knut); Schrum, C (Schrum, Corinna); van Beusekom, JEE (van Beusekom, Justus E. E.)	BIOGEOSCIENCES	17	20	5097	5127		2020	Scopus	10.5194/bg-17-5097-2020	Gold	PACES II
73	Marine Spatial Planning and sustainability: Examining the roles of integration - Scale, policies, stakeholders and knowledge	Kidd S., Calado H., Gee K., Gilek M., Saunders F.	Ocean and Coastal Management	191				105182	2020	2.482	10.1016/j.ocecoaman.2020.105182	Closed	PACES II

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74	Ecological and conceptual consequences of arctic pollution.	Kirdyanov, A. V., Krusic, P. J., Shishov, V. V., Vaganov, E. A., Fertikov, A. I., Myglan, V. S., Büntgen, U.	Ecology Letters	23	12	1827	1837		2020	Scopus	10.1111/ele.13611	Hybrid	PACES II
75	Coupling of the subpolar gyre and the overturning circulation during abrupt glacial climate transitions.	Klockmann, M., Mikolajewicz, U., Kleppin, H., & Marotzke, J.	Geophysical Research Letters	47	21				2020	Scopus	10.1029/2020GL090361	Hybrid / DEAL UHH?	PACES II Dublette
76	Development of a bio-optical model for the barents sea to quantitatively link glider and satellite observations: A bio-optical model for the barents sea	Kostakis, I., Röttgers, R., Orkney, A., Bouman, H. A., Porter, M., Cottier, F., McKee, D.	Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences	378	2181				2020	Scopus	10.1098/rsta.2019.0367	Hybrid	PACES II
77	Unraveling the choice of the north Atlantic subpolar gyre index	Koul, V; Tesdal, JE; Bersch, M; Hatun, H; Brune, S; Borchert, L; Haak, H; Schrum, C; Baehr, J	SCIENTIFIC REPORTS	10	1			1005	2020	3.998	10.1038/s41598-020-57790-5	Gold	PACES II
78	In situ airborne measurements of atmospheric and sea surface parameters related to offshore wind parks in the German Bight	Lampert, A; Baerfuss, K; Platis, A; Siedersleben, S; Djath, B; Canadillas, B; Hunger, R; Hankers, R; Bitter, M; Feuerle, T; Schulz, H; Rausch, T; Angermann, M; Schwithal, A; Bange, J; Schulz-Stellenfleth, J; Neumann, T; Emeis, S	EARTH SYSTEM SCIENCE DATA	12	2	935	946		2020	9.197	10.5194/essd-12-935-2020	Gold	PACES II
79	Socio-ecological vulnerability to tipping points: A review of empirical approaches and their use for marine management	Lauerburg, RAM; Diekmann, R; Blanz, B; Gee, K; Held, H; Kannen, A; Mollmann, C; Probst, WN; Rambo, H; Cormier, R; Stelzenmüller, V	SCIENCE OF THE TOTAL ENVIRONMENT	705				135838	2020	6.551	10.1016/j.scitotenv.2019.135838	Closed	PACES II
80	On the Role of Turbulent Mixing Produced by Vertical Shear Between the Brazil Current and the Intermediate Western Boundary Current	Lazaneo, CZ; Napolitano, DC; da Silveira, ICA; Tandon, A; MacDonald, DG; Avila, RA; Caill, PHR	JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS	125	1			e2019JC015338	2020	3.559	10.1029/2019JC015338	Green	PACES II
81	Canola oil extraction in conjunction with a plastic free separation unit optimises microplastics monitoring in water and sediment	Lechthaler, S (Lechthaler, Simone); Hildebrandt, L (Hildebrandt, Lars); Stauch, G (Stauch, Georg); Schuetttrumpf, H (Schuetttrumpf, Holger)	ANALYTICAL METHODS	12	42	5128	5139		2020	2596	10.1039/d0ay01574a	Closed	PACES II

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82	Skill Assessment of an Atmosphere-Wave Regional Coupled Model over the East China Sea with a Focus on Typhoons	Li, DL; Staneva, J; Grayek, S; Behrens, A; Feng, JL; Yin, BS	ATMOSPHERE	11	3			252	2020	2.397	10.3390/atmos11030252	Gold	PACES II
83	Multiple sediment sources and topographic changes controlled the depositional architecture of a palaeoslope-parallel canyon in the Qiongdongnan Basin, South China Sea	Liang, C; Xie, XN; He, YL; Chen, H; Yu, XH; Zhang, WY; Mi, HG; Lu, BY; Tian, DM; Zhang, H; Li, MJ; Zhou, Z	MARINE AND PETROLEUM GEOLOGY	113				UNSP 104161	2020	3.790	10.1016/j.marpetgeo.2019.104161	Closed	PACES II
84	A probabilistic model of decision making regarding the use of chemical dispersants to combat oil spills in the German Bight	Liu, Z; Callies, U	WATER RESEARCH	169				115196	2020	9.130	10.1016/j.watres.2019.115196	Hybrid	PACES II
85	Investigating the Formation of Submesoscale Structures along Mesoscale Fronts and Estimating Kinematic Quantities Using Lagrangian Drifters	Lodise, J (Lodise, John); Ozgokmen, T (Ozgokmen, Tamay); Goncalves, RC (Goncalves, Rafael C.); Iskandarani, M (Iskandarani, Mohamed); Lund, B (Lund, Bjorn); Horstmann, J (Horstmann, Jochen); Poulain, PM (Poulain, Pierre-Marie); Klymak, J (Klymak, Jody); Ryan, EH (Ryan, Edward H.); Guigand, C (Guigand, Cedric)	FLUIDS	5	3			159	2020	Scopus	10.3390/fluids5030159	Gold	PACES II
86	Global tide simulations with ICON-O: testing the model performance on highly irregular meshes	Logemann, K (Logemann, Kai); Linardakis, L (Linardakis, Leonidas); Korn, P (Korn, Peter); Schrum, C (Schrum, Corinna)	OCEAN DYNAMICS						2020	Scopus	10.1007/s10236-020-01428-7	Hybrid / DEAL	PACES II
87	Marine X-Band Radar Currents and Bathymetry: An Argument for a Wave Number-Dependent Retrieval Method	Lund, B; Haus, BK; Graber, HC; Horstmann, J; Carrasco, R; Novelli, G; Guigand, CM; Mehta, S; Laxague, NJM; Ozgokmen, TM	JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS	125	2			e2019JC015616	2020	3.559	10.1029/2019JC015618	Green	PACES II
88	Best Practices on High Frequency Radar Deployment and Operation for Ocean Current Measurement	Mantovani, C; Corgnati, L; Horstmann, J; Rubio, A; Reyes, E; Quentin, C; Cosoli, S; Asensio, JL; Madera, J; Griffa, A	FRONTIERS IN MARINE SCIENCE	7				210	2020	3.661	10.3389/fmars.2020.00210	Gold	PACES II

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89	From Monodisciplinary via Multidisciplinary to an Interdisciplinary Approach Investigating Air-Sea Interactions - a SOLAS Initiative	Marandino, C; van Doorn, E; McDonald, N; Johnson, M; Acma, B; Breviere, E; Campen, H; Carou, S; Cocco, E; Endres, S; Hilmi, N; Hopkins, F; Liss, P; Maes, F; Martensson, M; Oeffner, J; Oloyede, M; Peters, A; Quack, B; Singh, P; Thomas, H	COASTAL MANAGEMENT	48	4	238	256		2020	1.547	10.1080/08920753.2020.1773208	Closed	PACES II
90	The impact of meltwater discharge from the Greenland ice sheet on the Atlantic nutrient supply to the northwest European shelf	Mathis, M; Mikolajewicz, U	OCEAN SCIENCE	16	1	167	193		2020	2.864	10.5194/os-16-167-2020	Gold	PACES II
91	Modelling the Temporal and Spatial Allocation of Emission Data	Matthias V., Arndt J., Aulinger A., Bieser J., Quante M.	Springer Proceedings in Complexity			193	198		2020	Scopus	10.1007/978-3-030-22055-6_30	Closed	PACES II
92	Modelling road transport emissions in Germany - Current day situation and scenarios for 2040	Matthias, V (Matthias, Volker); Bieser, J (Bieser, Johannes); Mocanu, T (Mocanu, Tudor); Pregger, T (Pregger, Thomas); Quante, M (Quante, Markus); Ramacher, MOP (Ramacher, Martin O. P.); Seum, S (Seum, Stefan); Winkler, C (Winkler, Christian)	TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT	87				102536	2020	4.577	10.1016/j.trd.2020.102536	Hybrid	PACES II
93	Alongshore Variability of Shoaling Internal Bores on the Inner Shelf.	McSweeney, J.M., Lerczak, J.A., Barth, J.A., Becherer, J., MacKinnon, J.A., Waterhouse, A.F., Colosi, J.A., MacMahan, J.H., Feddersen, F., Calantoni, J., Simpson, A., Celona, S., Haller, M.C., & Terrill, E.	J. Phys. Oceanogr.	50	10	2965	2981		2020	Scopus	10.1175/JPO-D-20-0090.1	Green	PACES II
94	Using Ra-226 and Ra-228 isotopes to distinguish water mass distribution in the Canadian Arctic Archipelago	Mears, C (Mears, Chantal); Thomas, H (Thomas, Helmuth); Henderson, PB (Henderson, Paul B.); Charette, MA (Charette, Matthew A.); MacIntyre, H (MacIntyre, Hugh); Dehairs, F (Dehairs, Frank); Monnin, C (Monnin, Christophe); Mucci, A (Mucci, Alfonso)	BIOGEOSCIENCES	17	20	4937	4959		2020	Scopus	10.5194/bg-17-4937-2020	Gold	PACES II
95	Impact of Submesoscale Vertical Advection on Primary Productivity in the Southern East China Sea	Meng Q., Xuan J., Zhang W., Zhou F., Hao Q., Zhao Q., Schrum C.	Journal of Geophysical Research: Biogeosciences	125	8			e2019JG005540	2020	3.406	10.1029/2019JG005540	Hybrid	PACES II

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96	Make every species count: fastachar software for rapid determination of molecular diagnostic characters to describe species	Merckelbach L.M., Borges L.M.S.	Molecular Ecology Resources						2020	6.286	10.1111/1755-0998.13222	Hybrid / DEAL	PACES II
97	ICBM-OCEAN: Processing Ultrahigh-Resolution Mass Spectrometry Data of Complex Molecular Mixtures	Merder, J; Freund, JA; Feudel, U; Hansen, CT; Hawkes, JA; Jacob, B; Klapproth, K; Niggemann, J; Noriega-Ortega, BE; Osterholz, H; Rossel, PE; Seidel, M; Singer, G; Stubbins, A; Waska, H; Dittmar, T	ANALYTICAL CHEMISTRY	92	10	6832	6838		2020	6.785	10.1021/acs.analchem.9b05659	Closed	PACES II
98	Impact Forecasting to Support Emergency Management of Natural Hazards	Merz, B., Kuhlicke, C., Kunz, M., Pittore, M., Babeyko, A., Bresch, D.N., Domeisen, D.I.V., Feser, F., Koszalka, I., Kreibich, H., Pantillon, F., Parolai, S., Pinto, J.G., Punge, H.J., Rivalta, E., Schröter, K., Strehlow, K., Weisse, R., & Wurpts, A. (2020): . . , 58, ,	Reviews of Geophysics	58	4			e2020RG000	2020	Scopus	10.1029/2020RG000704	Hybrid	PACES II
99	Uncovering the intricacies of microbial community dynamics at Helgoland Roads at the end of a spring bloom using automated sampling and 18S meta-barcoding	Metfies, K; Hessel, J; Klenk, R; Petersen, W; Wiltshire, KH; Kraberg, A	PLOS ONE	15	6			e0233921	2020	2.740	10.1371/journal.pone.0233921	Gold	PACES II
100	Relative Dispersion of Surface Drifters in the North Sea: The Effect of Tides on Mesoscale Diffusivity	Meyerjürgens J., Ricker M., Schakau V., Badewien T.H., Stanev E.V.	Journal of Geophysical Research: Oceans	125	8			e2019JC015	2020	3.559	10.1029/2019JC015925	Hybrid	PACES II
101	Predation risk triggers copepod small-scale behavior in the Baltic Sea	Moller, KO (Moeller, Klas Ove); St John, M (St John, Michael); Temming, A (Temming, Axel); Diekmann, R (Diekmann, Rabea); Peters, J (Peters, Janna); Floeter, J (Floeter, Jens); Sell, AF (Sell, Anne F.); Herrmann, JP (Herrmann, Jens-Peter); Gloe, D (Gloe, Dominik); Schmidt, JO (Schmidt, Jorn O.); Hinrichsen, HH (Hinrichsen, Hans H.); Mollmann, C (Moellmann, Christian)	JOURNAL OF PLANKTON RESEARCH	42	6	702	713		2020	Scopus	10.1093/plankt/fbaa044	Hybrid	PACES II

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102	Improved Calculation of Nonlinear Near-Bed Wave Orbital Velocity in Shallow Water: Validation against Laboratory and Field Data	Nam, PT; Staneva, J; Thao, NT; Larson, M	JOURNAL OF MARINE SCIENCE AND ENGINEERING	8	2			81	2020	2.033	10.3390/jmse8020081	Gold	PACES II
103	Quantifying the contribution of shipping NO <sub>x</sub> emissions to the marine nitrogen inventory-A case study for the western Baltic Sea	Neumann D., Karl M., Radtke H., Matthias V., Friedland R., Neumann T.	Ocean Science	16	1	115	134		2020	2.864	10.5194/os-16-115-2020	Gold	PACES II
104	Very high-resolution modelling of submesoscale turbulent patterns and processes in the Baltic Sea	Onken, R; Baschek, B; Angel-Benavides, IM	OCEAN SCIENCE	16	3	657	684		2020	2.864	10.5194/os-16-657-2020	Gold	PACES II
105	Distinct Mechanisms Underlying Interannual to Decadal Variability of Observed Salinity and Nutrient Concentration in the Northern North Sea	Patsch, J; Gouretski, V; Hinrichs, I; Koul, V	JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS	125	5				2020	3.559	10.1029/2019JC015825	Hybrid	PACES II
106	Seasonal variations of biochemical and optical properties, physical dynamics and N stable isotopic composition in three northeastern Mediterranean basins (Aegean, Cretan and Ionian Seas)	Pavlidou, A; Velaoras, D; Karageorgis, AP; Rousselaki, E; Parinos, C; Dahnke, K; Mobius, J; Meador, TB; Psarra, S; Frangoulis, C; Souvermezoglou, E; Androni, A; Assimakopoulou, G; Chaikalis, S; Kanellopoulos, TD; Lagaria, A; Zachioti, P; Gogou, A	DEEP-SEA RESEARCH PART II-TOPICAL STUDIES IN OCEANOGRAPHY	171				UNSP 104704	2020	2.697	10.1016/j.jsr.2019.104704	Closed	PACES II
107	Biases in Structure Functions from Observations of Submesoscale Flows	Pearson, J; Fox-Kemper, B; Pearson, B; Chang, H; Haus, BK; Horstmann, J; Huntley, HS; Kirwan, AD; Lund, B; Poje, A	JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS	125	6			e2019JC015769	2020	3.559	10.1029/2019JC015769	Green	PACES II

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108	Overview: Integrative and Comprehensive Understanding on Polar Environments (ICUPE) - concept and initial results	Petaja, T; Duplissy, EM; Tabakova, K; Schmale, J; Altstadter, B; Ancellet, G; Arshinov, M; Balin, Y; Baltensperger, U; Bange, J; Beamish, A; Belan, B; Berchet, A; Bossi, R; Cairns, WRL; Ebinghaus, R; El Haddad, I; Ferreira-Araujo, B; Franck, A; Huang, L; Hyvarinen, A; Humbert, A; Kalogridis, AC; Konstantinov, P; Lampert, A; MacLeod, M; Magand, O; Mahura, A; Marelle, L; Masloboev, V; Moiseev, D; Moschos, V; Neckel, N; Onishi, T; Osterwalder, S; Ovaska, A; Paasonen, P; Panchenko, M; Pankratov, F; Pernov, JB; Platis, A; Popovicheva, O; Raut, JC; Riandet, A; Sachs, T; Salvatori, R; Salzano, R; Schroder, L; Schon, M; Shevchenko, V; Skov, H; Sonke, JE; Spolaor, A; Stathopoulos, VK; Strahlendorf, M; Thomas, JL; Vitale, V; Vratolis, S; Barbante, C; Chabrillat, S;	ATMOSPHERIC CHEMISTRY AND PHYSICS	20	14	8551	8592		2020	5.414	10.5194/acp-20-8551-2020	Gold	PACES II
109	Long-range modifications of the wind field by offshore wind parks – results of the project WIPAFF	Platis, A., Bange, J., Bärfuss, K., Cañadillas, B., Hundhausen, M., Djath, B., Lampert, A., Schulz-Stellenfleth, J., Siedersleben, S., Neumann, T., & Emeis, S.	Meteorologische Zeitschrift	29	5	355	376		2020	Scopus	10.1127/metz/2020/1023	Gold	PACES II
110	Population Exposure to Emissions from Industry, Traffic, Shipping and Residential Heating in the Urban Area of Hamburg	Ramacher M.O.P., Karl M., Aulinger A., Bieser J.	Springer Proceedings in Complexity			177	183		2020	Scopus	10.1007/978-3-030-22055-6_28	Closed	PACES II
111	The impact of ship emissions on air quality and human health in the Gothenburg area – Part II: Scenarios for 2040	Ramacher, M.O.P., Tang, L., Moldanová, J., Matthias, V., Karl, M., Fridell, E., & Johansson, L. (2020): 20, 10667–10686,	Atmos. Chem. Phys.,	20		10667	10686		2020	Scopus	10.5194/acp-20-10667-2020	Gold	PACES II
112	Integrating Modes of Transport in a Dynamic Modelling Approach to Evaluate Population Exposure to Ambient NO2 and PM2.5 Pollution in Urban Areas	Ramacher, MOP; Karl, M	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	17	6			2099	2020	2.468	10.3390/ijerph17062099	Gold	PACES II
113	Contributions of traffic and shipping emissions to city-scale NOx and PM2.5 exposure in Hamburg	Ramacher, MOP; Matthias, V; Aulinger, A; Quante, M; Bieser, J; Karl, M	ATMOSPHERIC ENVIRONMENT	237				117674	2020	4.039	10.1016/j.atmosenv.2020.117674	Closed	PACES II

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114	Monitoring Intense Oceanic Fronts Using Sea Surface Roughness: Satellite, Airplane, and In Situ Comparison	Rascle N., Chapron B., Molemaker J., Nouguier F., Ocampo-Torres F.J., Osuna Cañedo J.P., Marié L., Lund B., Horstmann J.	Journal of Geophysical Research: Oceans	125	8			e2019JC015	2020	3.559	10.1029/2019JC015704	Green	PACES II
115	Characterization of alloying components in galvanic anodes as potential environmental tracers for heavy metal emissions from offshore wind structures	Reese, A; Voigt, N; Zimmermann, T; Irrgeher, J; Proffrock, D	CHEMOSPHERE	257				127182	2020	5.778	10.1016/j.chemosphere.2020.127182	Hybrid	PACES II
116	Circulation of the European northwest shelf: a Lagrangian perspective	Ricker, M; Stanev, EV	OCEAN SCIENCE	16	3	637	655		2020	2.864	10.5194/os-16-637-2020	Gold	PACES II
117	Hydrodynamics of Canal Istanbul and its impact in the northern Sea of Marmara under extreme conditions	Sacu, S; Erdik, T; Stanev, EV; Sen, O; Erdik, JD; Orturk, I	OCEAN DYNAMICS	70	6	745	758		2020	1.887	10.1007/s10236-020-01358-4	Closed	PACES II
118	Photochemistry of oxidized Hg(I) and Hg(II) species suggests missing mercury oxidation in the troposphere	Saiz-Lopez, A (Saiz-Lopez, Alfonso); Travnikov, O (Travnikov, Oleg); Sonke, JE (Sonke, Jeroen E.); Thackray, CP (Thackray, Colin P.); Jacob, DJ (Jacob, Daniel J.); Carmona-Garcia, J (Carmona-Garcia, Javier); Frances-Monerris, A (Frances-Monerris, Antonio); Roca-Sanjuan, D (Roca-Sanjuan, Daniel); Acuna, AU (Acuna, A. Ulises); Davalos, JZ (Davalos, Juan Z.); Cuevas, CA (Cuevas, Carlos A.); Jiskra, M (Jiskra, Martin); Wang, FY (Wang, Feiyue); Bieser, J (Bieser, Johannes); Plane, JMC (Plane, John M. C.); Francisco, JS (Francisco, Joseph S.)	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	117	49	30949	30956		2020	Scopus	10.1073/pnas.1922486117	Hybrid	PACES II
119	Theorizing Social Sustainability and Justice in Marine Spatial Planning: Democracy, Diversity, and Equity	Saunders, F; Gilek, M; Ikauniece, A; Tafon, RV; Gee, K; Zaucha, J	SUSTAINABILITY	12	6			2560	2020	2.576	10.3390/su12062560	Gold	PACES II
120	The Impact of Nonbreaking Waves on Wind-Driven Ocean Surface Turbulence	Savelyev, IB; Buckley, MP; Haus, BK	JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS	125	1			e2019JC015	2020	3.559	10.1029/2019JC015573	Green	PACES II



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121	Benzo[a]pyrene in the Ambient Air in the Czech Republic: Emission Sources, Current and Long-Term Monitoring Analysis and Human Exposure.	Schreiberová, M., Vlasáková, L., Vlček, O., Šmejdiřová, J., Horálek, J., & Bieser, J. (	Atmosphere	11	9	955			2020	Scopus	10.3390/atmos11090955	Gold	PACES II
122	The Submesoscale Kinetic Energy Cascade: Mesoscale Absorption of Submesoscale Mixed-Layer Eddies and Frontal Downscale Fluxes	Schubert, R., Gula, J., Greatbatch, R.J., Baschek, B., & Biastoch, A.	J. Phys. Oceanogr.	50	9	2573	2589		2020	Scopus	10.1175/JPO-D-19-0311.1	Hybrid	PACES II
123	Increased Mixing and Turbulence in the Wake of Offshore Wind Farm Foundations	Schultze L.K.P., Merkelbach L.M., Horstmann J., Raasch S., Carpenter J.R.	Journal of Geophysical Research: Oceans	125	8			e2019JC015	2020	3.559	10.1029/2019JC015858	Hybrid / DEAL	PACES II
124	<b>Storm-induced turbulence alters shelf sea vertical fluxes</b>	<b>Schultze, LKP; Merkelbach, LM; Carpenter, JR</b>	<b>LIMNOLOGY AND OCEANOGRAPHY LETTERS</b>	<b>5</b>	<b>3</b>	<b>264</b>	<b>270</b>		<b>2020</b>	<b>5.242</b>	<b>10.1002/lol2.10139</b>	<b>Gold</b>	<b>PACES II</b>
125	Regionally coupled atmosphere - ocean - marine biogeochemistry model ROM: 2. Studying the climate change signal in the North Atlantic and Europe	Sein, D.V., Gröger, M., Cabos, W., Alvarez-Garcia, F.J., S. Hagemann, Pinto, J.G., Izquierdo, A., de la Vara, A., Koldunov, N.V., Dvornikov, A.Y., Limareva, N., Alekseeva, E., Martinez-Lopez, B., & Jacob, D.	J. Adv. Model. Earth Syst.	12	8			e2019MS0016	2020	Scopus	10.1029/2019MS001646	Gold	PACES II
126	Turbulent kinetic energy over large offshore wind farms observed and simulated by the mesoscale model WRF (3.8.1)	Siedersleben, SK; Platis, A; Lundquist, JK; Djath, B; Lampert, A; Barfuss, K; Canadillas, B; Schulz-Stellenfleth, J; Bange, J; Neumann, T; Emeis, S	GEOSCIENTIFIC MODEL DEVELOPMENT	13	1	249	268		2020	5.240	10.5194/gmd-13-249-2020	Gold	PACES II
127	Effect of Heat Treatment on the Corrosion Behavior of Mg-10Gd Alloy in 0.5% NaCl Solution	Silva Campos, M.R., Blawert, C., Mendis, C.L., Mohedano, M., Zimmermann, T., Proefrock, D., Zheludkevich, M.L., & Kainer, K.U.	Front. Mater.	7	84				2020	Scopus	10.3389/fmats.2020.00084	Gold	PACES II / AEM
128	Atmospheric mercury in the Southern Hemisphere - Part I: Trend and inter-annual variations in atmospheric mercury at Cape Point, South Africa, in 2007-2017, and on Amsterdam Island in 2012-2017	Slemr, F; Martin, L; Labuschagne, C; Mkololo, T; Angot, H; Magand, O; Dommergue, A; Garat, P; Ramonet, M; Bieser, J	ATMOSPHERIC CHEMISTRY AND PHYSICS	20	13	7683	7692		2020	5.414	10.5194/acp-20-7683-2020	Gold	PACES II

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129	Future Global Meteorological Drought Hot Spots: A Study Based on CORDEX Data	Spinoni, J., Barbosa, P., Bucchignani, E., Cassano, J., Cavazos, T., Christensen, J.H., Christensen, O.B., Coppola, E., Evans, J., Geyer, B., Giorgi, F., Hadjinicolaou, P., Jacob, D., Katzfey, J., Koenigk, T., Laprise, R., Lennard, C.J., Levent Kurnaz, M., Li, D., Llopart, M., McCormick, N., Naumann, G., Nikulin, G., Ozturk, T., Panitz, H.-J., Porfiro da Rocha, R., Rockel, B., Solman, S.A., Syktus, J., Tangang, F., Teichmann, C., Vautard, R., Vogt, J.V., Winger, K., Zittis, G. & Dosio, A.	J. Climate	33	9	3635	3661		2020	Scopus	10.1175/JCLI-D-19-0084.1	Hybrid	PACES II
130	Interactions between barotropic tides and mesoscale processes in deep ocean and shelf regions	Stanev, EV; Ricker, M	OCEAN DYNAMICS	70	5	713	728		2020	1.887	10.1007/s10236-020-01348-6	Hybrid / DEAL	PACES II
131	Operationalizing risk -based cumulative effect assessments in the marine environment	Stelzenmuller, V; Coll, M; Cormier, R; Mazaris, AD; Pascual, M; Loiseau, C; Claudet, J; Katsanevakis, S; Gissi, E; Evagelopoulos, A; Rumes, B; Degraer, S; Ojaveer, H; Moller, T; Gimenez, J; Piroddi, C; Markantonatou, V; Dimitriadis, C	SCIENCE OF THE TOTAL ENVIRONMENT	724				138118	2020	6.551	10.1016/j.scitotenv.2020.138118	Hybrid	PACES II
132	Experimental Characterization of Single-Color Power LEDs Used as Photodetectors	Sticklus, J (Sticklus, Jan); Hoeher, PA (Hoeher, Peter Adam); Hieronymi, M (Hieronymi, Martin)	SENSORS	20	18	1	14	5200	2020	Scopus	10.3390/s20185200	Gold	PACES II
133	Governance as a framework to theorise and evaluate marine planning	Stojanovic T., Gee K.	Marine Policy	120				104115	2020	3.228	10.1016/j.marpol.2020.104115	Closed	PACES II
134	The impact of ship emissions on air quality and human health in the Gothenburg area - Part 1: 2012 emissions	Tang, L; Ramacher, MOP; Moldanova, J; Matthias, V; Karl, M; Johansson, L; Jalkanen, JP; Yaramenka, K; Aulinger, A; Gustafsson, M	ATMOSPHERIC CHEMISTRY AND PHYSICS	20	12	7509	7530		2020	5.414	10.5194/acp-20-7509-2020	Gold	PACES II
135	Internal tides in the Solomon Sea in contrasted ENSO conditions	Tchilibou, M; Gourdeau, L; Lyard, F; Morrow, R; Larrouy, AK; Allain, D; Djath, B	OCEAN SCIENCE	16	3	615	635		2020	2.864	10.5194/os-16-615-2020	Gold	PACES II
136	A statistical analysis of rogue waves in the southern North Sea	Teutsch, I (Teutsch, Ina); Weisser, R (Weisser, Ralf); Moeller, J (Moeller, Jens); Krueger, O (Krueger, Oliver)	NATURAL HAZARDS AND EARTH SYSTEM SCIENCES	20	10	2665	2680		2020	Scopus	10.5194/nhess-20-2665-2020	Gold	PACES II

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137	An affordable and miniature ice coring drill for rapid acquisition of small iceberg samples	Thomsen S., Hansen M.H., Lillethorup J.P., Tirsgaard F.S., Flytkjær A., Melvad C., Rysgaard S., Carlson D.F.	HardwareX	7				e00101	2020	Scopus	10.1016/j.ohx.2020.e00101	Gold	PACES II
138	Wave Glider Observations of Surface Waves During Three Tropical Cyclones in the South China Sea	Tian, D; Zhang, H; Zhang, WY; Zhou, F; Sun, XJ; Zhou, Y; Ke, DX	WATER	12	5			1331	2020	2.544	10.3390/w12051331	Gold	PACES II
139	Field Intercomparison of Radiometer Measurements for Ocean Colour Validation	Tilstone, G; Dall'Olmo, G; Hieronymi, M; Ruddick, K; Beck, M; Ligi, M; Costa, M; D'Alimonte, D; Vellucci, V; Vansteenkoven, D; Bracher, A; Wiegmann, S; Kuusk, J; Vabson, V; Ansko, I; Vendt, R; Donlon, C; Casal, T	REMOTE SENSING	12	10			1587	2020	4.509	10.3390/rs12101587	Gold	PACES II
140	Mass-specific light absorption coefficients of mineral particles in aqueous suspension for the ultraviolet to near-infrared radiation spectra region (200–2500 nm)	Utschig, C (Utschig, Christian); Rottgers, R (Roettgers, Ruediger)	APPLIED OPTICS	59	33	10554	10564		2020	1961	10.1364/AO.393289	Hybrid	PACES II
141	Where does the salt marsh start? Field-based evidence for the lack of a transitional area between a gradually sloping intertidal flat and salt marsh	van Regteren M., Amptmeijer D., de Groot A.V., Baptist M.J., Elschot K.	Estuarine, Coastal and Shelf Science	243				106909	2020	2.333	10.1016/j.jecss.2020.106909	Hybrid	PACES II
142	Overall comparison and source identification of PAHs in the sediments of European Baltic and North Seas, Chinese Bohai and Yellow Seas	Wang, P; Mi, WY; Xie, ZY; Tang, JH; Apel, C; Joerss, H; Ebinghaus, R; Zhang, QH	SCIENCE OF THE TOTAL ENVIRONMENT	737				139535	2020	6.551	10.1016/j.scitotenv.2020.139535	Closed	PACES II
143	Internal model variability of ensemble simulations with a regional coupled wave-atmosphere model GCOAST	Wiese, A., Staneva, J., Ho-Hagemann, H. T. M., Grayek, S., Koch, W., & Schrum, C.	Frontiers in Marine Science	7					2020	Scopus	10.3389/fmars.2020.596843	Gold	PACES II
144	Vertical migration by bulk phytoplankton sustains biodiversity and nutrient input to the surface ocean	Wirtz K., Smith S.L.	Scientific Reports	10	1			1142	2020	3.998	10.1038/s41598-020-57890-2	Gold	PACES II
145	Occurrence of legacy and emerging organic contaminants in snow at Dome C in the Antarctic	Xie Z., Wang Z., Magand O., Thollot A., Ebinghaus R., Mi W., Dommergue A.	Science of the Total Environment	741				140200	2020	6.551	10.1016/j.scitotenv.2020.140200	Hybrid	PACES II

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146	Modeling paleogeographic scenarios of the Last Glacial Cycle as a base for source-to-sink studies: an example from the northwestern shelf of the South China Sea.	Xiong, P., Dudzińska-Nowak, J., Harff, J., Xie, X., Zhang, W., Chen, H., Tao, J., Chen, H., Miluch, J., Feldens, P., Maciag, L., Osadczuk, A., Meng, Q., & Zorita, E.	Journal of Asian Earth Sciences	203	104542				2020	Scopus	10.1016/j.jseae.2020.104542	Closed	PACES II
147	Less Nutrients but More Phytoplankton: Long-Term Ecosystem Dynamics of the Southern North Sea	Xu, X., Lemmen, C., & Wirtz, K.W.	Front. Mar. Sci.	7	662				2020	Scopus	10.3389/fmars.2020.00662	Gold	PACES II
148	Understanding the Biogeochemical Impacts of Fish Farms Using a Benthic-Pelagic Model	Yakushev, EV (Yakushev, Evgeniy, V); Wallhead, P (Wallhead, Philip); Renaud, PE (Renaud, Paul E.); Ilinskaya, A (Ilinskaya, Alisa); Protsenko, E (Protsenko, Elizaveta); Yakubov, S (Yakubov, Shamil); Pakhomova, S (Pakhomova, Svetlana); Sweetman, AK (Sweetman, Andrew K.); Dunlop, K (Dunlop, Kathy); Berezina, A (Berezina, Anfisa); Bellerby, RGJ (Bellerby, Richard G. J.); Dale, T (Dale, Trine)	WATER	12	9			2384	2020	Scopus	10.3390/w12092384	Gold	PACES II
149	Persulfate-based degradation of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in aqueous solution: Review on influences, mechanisms and prospective	Yang, L; He, LY; Xue, JM; Ma, YF; Xie, ZY; Wu, L; Huang, M; Zhang, ZL	JOURNAL OF HAZARDOUS MATERIALS	393				122405	2020	9.038	10.1016/j.jhazmat.2020.122405	Closed	PACES II
150	Momentum flux measurements in the airflow over wind-generated surface waves	Yousefi, K; Veron, F; Buckley, MP	JOURNAL OF FLUID MECHANICS	895				A15	2020	3.354	10.1017/jfm.2020.276	Hybrid	PACES II
151	Carbonate-associated organic matter is a detectable dissolved organic matter source in a subtropical seagrass meadow	Zeller, M. A., Van Dam, B. R., Lopes, C., & Kominoski, J. S.	Frontiers in Marine Science	7					2020	Scopus	10.3389/fmars.2020.580284	Gold	PACES II
152	Bioaccumulation and changes of trace metals over the last two decades in marine organisms from Guangdong coastal regions, South China	Zhang L., Yan W., Xie Z., Cai G., Mi W., Xu W.	Journal of Environmental Sciences (China)	98		103	108		2020	3.556	10.1016/j.jes.2020.05.007	Closed	PACES II

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153	Size-segregated characteristics of organic carbon (OC), elemental carbon (EC) and organic matter in particulate matter (PM) emitted from different types of ships in China	Zhang, F; Guo, H; Chen, YJ; Matthias, V; Zhang, Y; Yang, X; Chen, JM	ATMOSPHERIC CHEMISTRY AND PHYSICS	20	3	1549	1564		2020	5.414	10.5194/acp-20-1549-2020	Gold	PACES II
154	Sea surface current response patterns to tropical cyclones	Zhang, H; Liu, XH; Wu, RH; Chen, DK; Zhang, DN; Shang, XD; Wang, Y; Song, XS; Jin, WF; Yu, LH; Qi, YF; Tian, D; Zhang, WY	JOURNAL OF MARINE SYSTEMS	208				103345	2020	2.528	10.1016/j.jmarsys.2020.103345	Hybrid	PACES II
155	Morphogenesis of a late Pleistocene delta off the south-western Hainan Island unraveled by numerical modeling	Zhang, WY; Xiong, P; Meng, QC; Dudzinska-Nowak, J; Chen, H; Zhang, H; Zhou, F; Miluch, J; Harff, J	JOURNAL OF ASIAN EARTH SCIENCES	195				104351	2020	3.059	10.1016/j.jseaes.2020.104351	Closed	PACES II
156	Influence of aviation emission on the particle number concentration near zurich airport	Zhang, X., Karl, M., Zhang, L., & Wang, J.	Environmental Science and Technology	54	22	14161	14171		2020	Scopus	10.1021/acs.est.0c02249	Closed	PACES II
157	Flocculation under the control of shear, concentration and stratification during tidal cycles	Zhang, Y; Ren, J; Zhang, WY	JOURNAL OF HYDROLOGY	586				124908	2020	4.500	10.1016/j.jhydrol.2020.124908	Closed	PACES II
158	Reconstruction of the basin-wide sea-level variability in the north sea using coastal data and generative adversarial networks	Zhang, Z., Stanev, E. V., & Grayek, S.	Journal of Geophysical Research: Oceans	125	12				2020	Scopus	10.1029/2020JC016402	Hybrid	PACES II
159	A closure study of ocean inherent optical properties using flow cytometry measurements	Zhao Y., Poulin C., McKee D., Hu L., Agagliate J., Yang P., Xiaodong Z.	Journal of Quantitative Spectroscopy and Radiative Transfer	241				106730	2020	3.047	10.1016/j.jqsrt.2019.106730	Hybrid	PACES II
160	PAES and PAHs in the surface sediments of the East China Sea: Occurrence, distribution and influence factors	Zhao, XG; Jin, HY; Ji, ZQ; Li, DH; Kaw, HY; Chen, JF; Xie, ZY; Zhang, TZ	SCIENCE OF THE TOTAL ENVIRONMENT	703				134763	2020	6.551	10.1016/j.scitotenv.2019.134763	Closed	PACES II
161	Algal Accumulation Decreases Sediment Nitrogen Removal by Uncoupling Nitrification-Denitrification in Shallow Eutrophic Lakes	Zhu, L; Shi, WQ; Van Dam, B; Kong, LW; Yu, JH; Qin, BQ	ENVIRONMENTAL SCIENCE & TECHNOLOGY	54	10	6194	6201		2020	7.864	10.1021/acs.est.9b05549	Closed	PACES II

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162	Optimized methods for diffusive greenhouse gas flux analyses in inland waters	Zhu, L; Yu, JH; Van Dam, B; Cao, HY; Pu, YY; Shi, WQ; Qin, BQ	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	27	21	25870	25876		2020	3.056	10.1007/s11356-019-06436-9	Closed	PACES II
163	Substituting HF by HBF4 - an optimized digestion method for multi-elemental sediment analysis via ICP-MS/MS	Zimmermann, T; von der Au, M; Reese, A; Klein, O; Hildebrandt, L; Proffrock, D	ANALYTICAL METHODS	12	30	3778	3787		2020	2.596	10.1039/d0ay01049a	Hybrid	PACES II

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1	Analysis of the water, energy, food and land nexus using the system archetypes: A case study in the Jatiluhur reservoir, West Java, Indonesia	Bahrj, M	SCIENCE OF THE TOTAL ENVIRONMENT	716				137025	2020	6.551	10.1016/j.scitotenv.2020.137025	Closed	PACES II
2	HCLIM38: a flexible regional climate model applicable for different climate zones from coarse to convection-permitting scales	Belusic, D; de Vries, H; Dobler, A; Landgren, O; Lind, P; Lindstedt, D; Pedersen, RA; Sanchez-Perrino, JC; Toivonen, E; van Ulft, B; Wang, FX; Andrae, U; Batrak, Y; Kjellstrom, E; Lenderink, G; Nikulin, G; Pietikainen, JP; Rodriguez-Camino, E; Samuelsson, P; van Meijgaard, E; Wu, MC	GEOSCIENTIFIC MODEL DEVELOPMENT	13	3	1311	1333		2020	5.240	10.5194/gmd-13-1311-2020	Gold	PACES II
3	Auswirkungen des Klimawandels auf die zukünftige Grundwassernutzung – Betroffenheiten, Handlungsbedarfe und Lösungsansätze	Bender, S., Groth, M. & Viktor, E.	Grundwasser - Zeitschrift der Fachsektion Hydrogeologie	26	1	61	72		2020	Scopus	10.1007/s00767-020-00465-9	Hybrid / DEAL	PACES II
4	The opposing effects of re/af-forestation on the diurnal temperature cycle at the surface and in the lowest atmospheric model level in the European summer	Breil, M., Rechid, D., Davin, E.L., de Noblet-Ducoudré, N., Katragkou, E., Cardoso, R.M., Hoffmann, P., Jach, L.L., Soares, P.M.M., Sofiadis, G., Strada, S., Strandberg G., Tölle, M.H., Warrach-Sagi K.	J. Climate						2020	6	10.1175/JCLI-D-19-0624.1	Hybrid	PACES II
5	Impact of ocean-atmosphere coupling on regional climate: the Iberian Peninsula case	Cabos, W; de la Vara, A; Alvarez-Garcia, FJ; Sanchez, E; Sieck, K; Perez-Sanz, JI; Limareva, N; Sein, DV	CLIMATE DYNAMICS	54	9-10	4441	4467		2020	Scopus	10.1007/s00382-020-05238-x	Hybrid	PACES II
6	<b>A capital approach for assessing local coastal governance</b>	<b>Celliers L., Rosendo S., Costa M.M., Ojwang L., Carmona M., Obura D.</b>	<b>Ocean and Coastal Management</b>	<b>183</b>				<b>104996</b>	<b>2020</b>	<b>2.482</b>	<b>10.1016/j.ocecoaman.2019.104996</b>	<b>Closed</b>	<b>PACES II</b>

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7	A new spatially distributed added value index for regional climate models: the EURO-CORDEX and the CORDEX-CORE highest resolution ensembles	Ciarlo, JM; Coppola, E; Fantini, A; Giorgi, F; Gao, XJ; Tong, Y; Glazer, RH; Alavez, JAT; Sines, T; Pichelli, E; Raffaele, F; Das, S; Bukovsky, M; Ashfaq, M; Im, ES; Nguyen-Xuan, T; Teichmann, C; Remedio, A; Remke, T; Bulow, K; Weber, T; Buntmeyer, L; Sieck, K; Rechid, D; Jacob, D	CLIMATE DYNAMICS						2020	4.486	10.1007/s00382-020-05400-5	Closed	PACES II
8	Assessment of the European climate projections as simulated by the large EURO-CORDEX regional and global climate model ensemble	Coppola, E.; Nogherotto, R.; Ciarlò, J. M.; Giorgi, F.; Meijgaard, E.; Kadyrov, N.; Iles, C.; Corre, L.; Sandstad, M.; Somot, S.; Nabat, P.; Vautard, R.; Levavasseur, G.; Schwingshackl, C.; Sillmann, J.; Kjellström, E.; Nikulin, G.; Aalbers, E.; Lenderink, G.; Christensen, O. B.; Boberg, F.; Sørland, S. L.; Demory, M.-E.; Bülow, K.; Teichmann, C.; Warrach-Sagi, K. & Wulfmeyer, V.	Journal of Geophysical Research: Atmospheres, American Geophysical Union (AGU),						2020	3,821	10.1029/2019jd032356	Closed	PACES II
9	Basics for the operationalization of the new urban climate model PALM-4U	Cortekar, J., Willen, L., Büter, B., Winkler, M., Hölsgens, R., Burmeister, C., Dankwart-Kammoune, S., Kriegera, A.,	Climate Services	20				100193	2020	-	10.1016/j.cliser.2020.100193	Gold	PACES II
10	Biogeophysical impacts of forestation in Europe: first results from the LUCAS (Land Use and Climate Across Scales) regional climate model intercomparison	Davin, El; Rechid, D; Brei, M; Cardoso, RM; Coppola, E; Hoffmann, P; Jach, LL; Katragkou, E; de Noblet-Ducoudre, N; Radtke, K; Raffa, M; Soares, PMM; Sofiadis, G; Strada, S; Strandberg, G; Tolle, MH; Warrach-Sagi, K; Wulfmeyer, V	EARTH SYSTEM DYNAMICS	11	1	183	200		2020	3.866	10.5194/esd-11-183-2020	Gold	PACES II
11	European daily precipitation according to EURO-CORDEX regional climate models (RCMs) and high-resolution global climate models (GCMs) from the High-Resolution Model Intercomparison Project (HighResMIP)	Demory, M.-E., Bernou, S., Fernandez, J., Sørland, S.L., Brogli, R., Roberts, M.J., Beyerle, U., Seddon, J., Haarsma, R., Schär, C., Buonomo, E., Christensen, O.B., Ciarlo, J.M., Fealy, R., Nikulin, G., Peano, D., Putrasahan, D., Roberts,	Geoscientific Model Development	13	11	5485	5506		2020	Scopus	10.5194/gmd-13-5485-2020	Gold	PACES II



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12	The CORDEX-Australasia ensemble: evaluation and future projections.	Evans, J.P., Di Virgilio, G., Hirsch, A.L., Hoffmann, P., Remedio, A. R., Fei, J., Rockel, B., Coppola, E.	CLIMATE DYNAMICS						2020	Scopus	10.1007/s00382-020-05459-0	Closed	PACES II
13	Detectability of Artificial Ocean Alkalinization and Stratospheric Aerosol Injection in MPI-ESM.	Fröb, F., Sonntag, S., Pongratz, J., Schmidt, H., Ilyina, T.	Earth's Future	8	10				2020	Scopus	10.1029/2020EF001634	Gold	PACES II
14	Using a system thinking approach to assess the contribution of nature based solutions to sustainable development goals	Gómez Martín E., Giordano R., Pagano A., van der Keur P., Mániz Costa M.	Science of the Total Environment	738				139693	2020	6.551	10.1016/j.scitotenv.2020.139693	Hybrid	PACES II
15	Beyond shared socioeconomic pathways (SSPs) and representative concentration pathways (RCPs): climate policy implementation scenarios for Europe, the	Hewitt, R.J., Cremades, R., Kovalevsky, D.V., Hasselmann, K.	Climate Policy	21	4	434	454		2020	4,011	10.1080/14693062.2020.1852068	Hybrid	PACES II
16	Multi-Domain Design Structure Matrix Approach applied to Urban System Modeling	Hoffmann, P., Nomaguchi, Y., Hara, K., Sawai, K., Gasser, I., Albrecht, M., Bechtel, B., Fischereit, J., Fujita, K., Gaffron, P., Krefis, A.C., Quante, M., Jacob, D., Reichmann, C., Sobolowski, S.; Katragkou, E; Anders, I; Belda, M; Benestad, R; Boberg, F; Buonomo, E; Cardoso, RM; Casanueva, A; Christensen, OB; Christensen, JH; Coppola, E; De Cruz, I; Davin, EL; Dobler, A; Dominguez, M; Fealy, R; Fernandez, J; Gaertner, MA; Garcia-Diez, M; Giorgi, F; Gobiet, A; Goergen, K; Gomez-Navarro, JJ; Aleman, JJG; Gutierrez, C; Gutierrez, JM; Guttler, I; Haensler, A; Halenka, T; Jerez, S; Jimenez-Guerrero, P; Jones, RG; Keuler, K; Kjellstrom, E; Knist, S; Kotlarski, S; Maraun, D; van Meijgaard, E; Mercogliano, P; Montavez, JP; Navarra, A; Nikulin, G; de Noblet-Ducoudre, N; Panitz, HJ; Pfeifer, S; Piazza, M; Pichelli, E;	Urban Science	4	28				2020	1,831	10.3390/urbansci4020028	Gold	PACES II
17	Regional climate downscaling over Europe: perspectives from the EURO-CORDEX community	<b>S; Katragkou, E; Anders, I; Belda, M; Benestad, R; Boberg, F; Buonomo, E; Cardoso, RM; Casanueva, A; Christensen, OB; Christensen, JH; Coppola, E; De Cruz, I; Davin, EL; Dobler, A; Dominguez, M; Fealy, R; Fernandez, J; Gaertner, MA; Garcia-Diez, M; Giorgi, F; Gobiet, A; Goergen, K; Gomez-Navarro, JJ; Aleman, JJG; Gutierrez, C; Gutierrez, JM; Guttler, I; Haensler, A; Halenka, T; Jerez, S; Jimenez-Guerrero, P; Jones, RG; Keuler, K; Kjellstrom, E; Knist, S; Kotlarski, S; Maraun, D; van Meijgaard, E; Mercogliano, P; Montavez, JP; Navarra, A; Nikulin, G; de Noblet-Ducoudre, N; Panitz, HJ; Pfeifer, S; Piazza, M; Pichelli, E;</b>	REGIONAL ENVIRONMENTAL CHANGE	20	2			UNSP 51	2020	3.481	10.1007/s10113-020-01606-9	Hybrid / DEAL	PACES II /GERICS

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18	How an urban parameterization affects a high-resolution global climate simulation	Katzfey J., Schlünzen H., Hoffmann P., Thatcher M.	Quarterly Journal of the Royal Meteorological Society	146	733	3808	3829		2020	3.471	10.1002/qj.3874	Hybrid	PACES II
19	The potential of nature-based flood defences to leverage public investment in coastal adaptation: Cases from the Netherlands, Indonesia and Georgia	Kok, S., Bistro, A., de Bel, M., Hinke, J., Bouwer, L.M.	Ecological Economics	179				106828	2020	4	10.1016/j.ecolecon.2020.106828	Closed	PACES II
20	An analytical model of open-ocean deep convection with multiple steady states	Kovalevsky, D.V., Bashmachnikov, I.L.	Ocean Modelling	154				101680	2020	3	10.1016/j.ocemod.2020.101680	Hybrid	PACES II
21	Formation and decay of a deep convective chimney	Kovalevsky, DV; Bashmachnikov, IL; Alekseev, GV	OCEAN MODELLING	148				101583	2020	3.215	10.1016/j.ocemod.2020.101583	Hybrid	PACES II
22	European climate services markets – Conditions, challenges, prospects, and examples	Lé T.-T., Perrels A., Cortekar J.	Climate Services	17				100149	2020	Scopus	10.1016/j.cliser.2020.100149	Gold	PACES II
23	A sustainable flywheel: opportunities from insurance' business to support nature-based solutions for climate adaptation.	Máñez Costa, M., Marchal, R., Moncoulon, D., Gómez Martín, E.	Environmental Research Letters	15	11				2020	Scopus	10.1088/1748-9326/abc046	Gold	PACES II
24	Loss and Damage and limits to adaptation: recent IPCC insights and implications for climate science and policy	Mechler, R; Singh, C; Ebi, K; Djalante, R; Thomas, A; James, R; Tschakert, P; Wewerinke-Singh, M; Schinko, T; Ley, D; Nalau, J; Bouwer, LM; Huggel, C; Huq, S; Linnerooth-Bayer, J; Surminski,	SUSTAINABILITY SCIENCE	15	4	1245	1251		2020	5.301	10.1007/s11625-020-00807-9	Hybrid	PACES II
25	The regional Miklip decadal prediction system for Europe: Hindcast skill for extremes and user-oriented variables	Moemken, J., Feldmann, H., Pinto, J.G., Buldmann, B., Laube, N., Kadow, C., Paxian, A., Tiedje, B., Kottmeier, C., Marotzke, J.	International Journal of Climatology	41	S1	E1944	E1958		2020	Scopus	10.1002/joc.6824	Hybrid	PACES II
26	Reducing the aerosol forcing uncertainty using observational constraints on warm rain processes	Mülmenstädt, J; Nam, C; Salzmann, M; Kretzschmar, J; L'Ecuyer, TS; Lohmann, U; Ma, PL; Myhre, G; Neubauer, D; Stier, P; Suzuki, K; Wang, MH; Quaas, J	SCIENCE ADVANCES	6	22				2020	Scopus	10.1126/sciadv.aaz6433	Gold	PACES II

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27	Social tipping dynamics for stabilizing Earth's climate by 2050	Otto, I.M., Donges, J.F., Cremades, R., Bhowmik, A., Hewitt, R.J., Lucht, W., Rockström, J., Allerberger, F., McCaffrey, M., Doe, S.S.P., Lenferna, A., Morán, N., van Vuuren, D.P., Schellnhuber, H.J.	PNAS	117	5	2354	2365		2020	Proceeding	10.1073/pnas.1900577117	Hybrid	PACES II
28	GCMeval – An interactive tool for evaluation and selection of climate model ensembles	Parding K.M., Dobler A., McSweeney C.F., Landgren O.A., Benestad R., Erlandsen H.B., Mezghani A., Gregow H., Råty O., Viktor E., El Zohbi J., Christensen O.B., Loukos H.	Climate Services	18				100167	2020	Scopus	10.1016/j.cliser.2020.100167	Gold	PACES II
29	A roadmap for high-resolution satellite soil moisture applications – confronting product characteristics with user requirements	Peng, J., Albergel, C., Balenzano, A., Brocca, L., Cartus, O., Cosh, M.H., Crow, W.T., Dabrowska-Zielinska, K., Dadson, S., Davidson, M.W.J., de Rosnay, P., Dorigo, W., Gruber, A., Hagemann, S., Hirschi, M., Kerr, Y.H., Lovergine, F., Mahecha, M.D., Marzahn, P., Mattia, F., Musial, J.P., Preuschmann, S., Reichle, R.H., Satalino, G., Silgram, M., van Bodegom, P.M., Verhoest, N.E.C., Wagner, W., Walker, J.P., Wegmüller, U., Loew, A	Remote Sensing of Environment					112162	2020	Scopus	10.1016/j.rse.2020.112162	Hybrid	PACES II
30	How much unnoticed merit is there in climate services?	Perrels A., Le T.-T., Cortekar J., Hoa E., Stegmaier P.	Climate Services	17				100153	2020	Scopus	10.1016/j.cliser.2020.100153	Gold	PACES II
31	Comparison of ESA climate change initiative land cover to CORINE land cover over Eastern Europe and the Baltic States from a regional climate modeling perspective	Reinhart, V; Fonte, Fonte, C. C., Hoffmann, P., Bechtel, B., Rechid, D., Boehner, J.	INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION	94					2020	4,65	10.1016/j.jag.2020.102221	Gold	PACES II
32	Earth observation and coastal climate services for small islands	Rölfer L., Winter G., Mániz Costa M., Celliers L.	Climate Services	18				100168	2020	Scopus	10.1016/j.cliser.2020.100168	Gold	PACES II

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33	Regionally Coupled Atmosphere-Ocean-Marine Biogeochemistry Model ROM: 2. Studying the Climate Change Signal in the North Atlantic and Europe	Sein D.V., Gröger M., Cabos W., Alvarez-Garcia F.J., Hagemann S., Pinto J.G., Izquierdo A., de la Vara A., Koldunov N.V., Dvornikov A.Y., Limareva N., Alekseeva E., Martínez-Lopez B., Jacob D.	Journal of Advances in Modeling Earth Systems	12	8			e2019MS001	2020	4.327	10.1029/2019MS001646	Gold	PACES II
34	A review of hydro-meteorological hazard, vulnerability, and risk assessment frameworks and indicators in the context of nature-based solutions	Shah, M.A.R., Renaud, F.G., Anderson, C.C., Wild, A., Domeneghetti, A., Polderman, A., Votsis, A., Pulvirenti, B., Basu, B., Thomson, C., Panga, D., Pouta, E., Toth, E., Pilla, F., Sahani, J., Ommer, J., El Zohbi, J., Munro, K., Stefanopoulou, M., Loupis, M., Pangas, N., Kumar, P., Debele, S., Preuschmann, S., Zixuan, W.	International Journal of Disaster Risk Reduction	50				101728	2020	Scopus	10.1016/j.ijdrr.2020.101728	Hybrid	PACES II
35	Future global meteorological drought hot spots: A study based on CORDEX data	Spinoni J., Barbosa P., Buccignani E., Cassano J., Cavazos T., Christensen J.H., Christensen O.B., Coppola E., Evans J., Geyer B., Giorgi F., Hadjinicolaou P., Jacob D., Katzfey J., Koenigk T., Laprise R., Lennard C.J., Kurnaz M.L., Delei L.I., Llopart M., McCormick N., Naumann G., Nikulin G., Ozturk T., Panitz H.-J., da Rocha R.P., Rockel B., Solman S.A., Syktus J., Tangang F., Teichmann C., Vautard R., Vogt J.V., Winger K., Zittis G., Dosio A.	Journal of Climate	33	9	3635	3661		2020	5.707	10.1175/JCLI-D-19-0084.1	Hybrid	PACES II
36	Behind the scenes of an interdisciplinary effort: conception, design and production of a flyer on climate change for the citizens of Hamburg	Steuri, B., Blume, T., Bülow, K., El Zohbi, J., Hoffmann, P., Petersen, J., Pfeifer, J., Rechid, D., Jacob, D.	Adv. Sci. Res.	17		9	17		2020	Proceeding	10.5194/asr-17-9-2020	Gold	PACES II
37	<b>Successful user -science interaction to co -develop the new urban climate model PALM-4U</b>	<b>Steuri, B; Bender, S; Cortekar, J</b>	<b>URBAN CLIMATE</b>	<b>32</b>				<b>100630</b>	<b>2020</b>	<b>3.834</b>	<b>10.1016/j.uclim.2020.100630</b>	Hybrid	<b>PACES II</b>

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38	The added value of large-eddy and storm-resolving models for simulating clouds and precipitation	Stevens, B., Acquistapace, C., Hansen, A., Heinze, R., Klinger, C., Klocke, D., Rybka, H., Schubotz, W., Windmiller, J., Adamidis, P., Arka, I., Barlakas, V., Biercamp, J., Brueck, M., Brune, S., Buehler, S.A., Burkhardt, U., Cioni, G., Costa-Surós, M., Crewell, S., Crüger, T., Deneke, H., Friederichs, P., Henken, C.C., Hohenegger, C., Jacob, M., Jakub, F., Kalthoff, N., Köhler, M., van LAAR, T.W., Li, P., Löhnert, U., Macke, A., Madenach, N., Mayer, B., Nam, C., Naumann, A.K., Peters, K., Poll, S., Quaas, J., Röber, N., Rochetin, N., Scheck, L., Schemann, V., Schnitt, S., Seifert, A., Senf, F., Shapkalijevski, M., Simmer, C., Singh, S., Sourdeval, O., Spickermann, D., Strandgren, J., Tessiot, O., Vercauteren, N., Viol, J., Voigt, A., Tangang, F., Chung, J.X., Juneng, L., Supari, Salimun, E., Ngai, S. T., Jamaluddin, A. F., Mohd, M. S. F., Cruz, F., Narisma, G., Santisirisomboon, J., Ngo-Duc, T., Tan, P. V., Singhruck, P., Gunawan, D., Aldrian, E., Sopaheluwakan, A., Grigory, N., Remedio, A. R. C., Sein, D., V., Hein-Griggs, D., McGregor, J., L., Yang, H., Sasaki H., Kumar, P.	Journal of the Meteorological Society of Japan	98	2	395	435		2020	Scopus	10.2151/jmsj.2020-021	Gold	PACES II
39	Projected future changes in rainfall in Southeast Asia based on CORDEX-SEA multi-model simulations	Supari, Salimun, E., Ngai, S. T., Jamaluddin, A. F., Mohd, M. S. F., Cruz, F., Narisma, G., Santisirisomboon, J., Ngo-Duc, T., Tan, P. V., Singhruck, P., Gunawan, D., Aldrian, E., Sopaheluwakan, A., Grigory, N., Remedio, A. R. C., Sein, D., V., Hein-Griggs, D., McGregor, J., L., Yang, H., Sasaki H., Kumar, P.	CLIMATE DYNAMICS	55		1247	1267		2020	4,486	10.1007/s00382-020-05322-2	Hybrid	PACES II
40	Assessing mean climate change signals in the global CORDEX-CORE ensemble	Teichmann, C., Jacob, D., Remedio, A. R., Remke, T., Buntemeyer, L., Hoffmann, P., Kriegsmann, A., Lierhammer, L., Bülow, K., Weber, T., Sieck, K., Rechid, D., Langendijk, G. S., Coppola, E., Giorgi, F., Ciario, J., Raffaele, F., Giuliani, G., Xuejie, G., Sines, T. R., Alavez, J. A. T., Das, S., di Sante, F., Pichelli, E., Glazer, R., Ashfaq, M., Bukovsky, M., Im, E.-S.	CLIMATE DYNAMICS						2020	4	10.1007/s00382-020-05494-x	Hybrid / DEAL	PACES II

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41	Wheat Yield Estimation from NDVI and Regional Climate Models in Latvia	Vannoppen, A; Gobin, A; Kotova, L; Top, S; De Cruz, L; Viksna, A; Aniskevich, S; Bobylev, L; Buntemeyer, L; Caluwaerts, S; De Troch, R; Gnatiuk, N; Hamdi, R; Remedio, AR; Sakalli, A; Van de Vyver, H; Van Schaeuybroeck, B; Termonia, P	REMOTE SENSING	12	14			2206	2020	4.509	10.3390/rs12142206	Gold	PACES II
42	Improved Transferability of Data-Driven Damage Models Through Sample Selection Bias Correction	Wagenaar, D; Hermawan, T; van den Homberg, M; Aerts, JCJH; Kreibich, H; de Moel, H; Bouwer, LM	RISK ANALYSIS	41	1	37	55		2020	3.137	10.1111/risa.13575	Hybrid	PACES II
43	Analysis of Compound Climate Extremes and Exposed Population in Africa Under Two Different Emission Scenarios	Weber T., Bowyer P., Rechid D., Pfeifer S., Raffaele F., Remedio A.R., Teichmann C., Jacob D.,	Earth's Future		8	9			2020	6.141	10.1029/2019EF001473	Gold	PACES II
44	Enhancing autonomy for climate change adaptation using participatory modeling	Williams D.S.	Weather, Climate, and Society	12	4	667	678		2020	1.958	10.1175/WCAS-D-20-0024.1	Hybrid	PACES II
45	Identifying local governance capacity needs for implementing climate change adaptation in Mauritius	Williams D.S., Rosendo S., Sadasing O., Celliers L.	Climate Policy	20	5	548	562		2020	4.011	10.1080/14693062.2020.1745743	Hybrid	PACES II
46	A method of assessing user capacities for effective climate services	Williams, D.S., Manez Costa, M., Kovalevsky, D., van den Hurk, B., Klien, B., Meissner, D., Pulido-Velazquez, M., Andreu, J., Suarez-Alminana, S.	Climate Services						2020	Scopus	10.1016/j.cliser.2020.100180	Gold	PACES II
47	A Method for Enhancing Capacity of Local Governance for Climate Change Adaptation	Williams, DS; Celliers, L; Unverzagt, K; Videira, N; Costa, MM; Giordano, R	EARTHS FUTURE	8	7			e2020EF001E	2020	6.141	10.1029/2020EF001506	Gold	PACES II
48	Evaluating the Practicability of the new Urban Climate Model PALM-4U using a Living-Lab Approach	Winkler, M., Steuri, B., Stadler, S., Antretter, F.	E3S Web of Conferences	172				11010	2020	0,52	10.1051/e3sconf/202017211010	Gold	PACES II
49	Seasonal temperature response over the Indochina Peninsula to a worst-case high-emission forcing: a study with the regionally coupled model ROM	Zhu, SP; Ge, F; Sielmann, F; Pan, MT; Fraedrich, K; Remedio, ARC; Sein, DV; Jacob, D; Wang, H; Zhi, XF	THEORETICAL AND APPLIED CLIMATOLOGY	142		613	622		2020	2.882	10.1007/s00704-020-03345-7	Closed	PACES II

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50	Added value of the regionally coupled model ROM in the East Asian summer monsoon modeling	Zhu, SP; Remedio, ARC; Sein, DV; Sielmann, F; Ge, F; Xu, JW; Peng, T; Jacob, D; Fraedrich, K; Zhi, XF	THEORETICAL AND APPLIED CLIMATOLOGY	140	1-2	375	387		2020	2.882	10.1007/s00704-020-03093-8	Closed	PACES II