No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
1	Synthesis of o-phenylenediamine functionalized graphite	Aliyeva, S.; Aliyev, E.; Maharramov, A.; Alosmanov, R.; Azizov, A.; Buniyatzadeh, I.; Eyvazova, G.; Aghamaliyev, Z.	Fullerenes Nanotubes and Carbon Nanostructures	25	5	306	311	2017	1,35	10.1080/1536383X.2017.1289924	AEM
2	Effect of functional groups on the thermal degradation of phosphorus- and phosphorus/nitrogen-containing functional polymers	Alosmanov, R.; Wolski, K.; Matuschek, G.; Magerramov, A.; Azizov, A.; Zimmermann, R.; Aliyev, E.; Zapotoczny, S.	Journal of Thermal Analysis and Calorimetry	130	2	799	812	2017	1,953	10.1007/s10973-017-6464-4	AEM
3	Powder Metallurgy Strategies to Improve Properties and Processing of Titanium Alloys: A Review	Amherd Hidalgo, A., Frykholm, R., Ebel, T., Pyczak, F.	Advanced Engineering Materials	19		E201600743		2017	2,319		AEM
4	Nanoindentation and wear properties of Ti and Ti-TiB composite materials produced by selective laser melting	Attar, H.; Ehtemam-Haghighi, S.; Kent, D.; Okulov, I.V.; Wendrock, H.; Bönisch, M.; Volegov, A.S.; Calin, M.; Eckert, J.; Dargusch, M.S.	Materials Science and Engineering A	688		20	26	2017	3,094	10.1016/j.msea.2017.01.096	AEM
5	Numerical simulation of thermally induced residual stresses in friction stir welding of aluminum alloy 2024-T3 at different welding speeds	Bachmann, M.; Carstensen, J.; Bergmann, L.; dos Santos, J.F.; Wu, C.S.; Rethmeier, M.	International Journal of Advanced Manufacturing Technology	91	1-4	1443	1452	2017	2,209	10.1007/s00170-016-9793-8	AEM
6	Influence of a non-rotating shoulder on heat generation, microstructure and mechanical properties of dissimilar AA2024/AA7050 FSW joints	Barbini, A.; Carstensen, J., dos Santos, J.F.	Journal of Materials Science and Technology	in press				2017	Scopus	10.1016/j.jmst.2017.10.017	AEM
7	TiC particle reinforced Ti-6Al-4V friction surfacing coatings	Belei, C., Fitseva, V., dos Santos, J.F., Alcantara, N.G., Hanke, S.	Surface and Coatings Technology	329		163	173	2017	Scopus		AEM
8	Membranes of polymers of intrinsic microporosity (PIM-1) modified by poly(ethylene glycol)	Bengtson, G.; Neumann, S.; Filiz, V.	Membranes	7	2	28		2017	0	10.3390/membranes7020028	AEM
9	Thermodynamic analysis of alkali metal complex formation of polymer-bonded crown ether	Bey, A.; Dreyer, O.; Abetz, V.	Physical Chemistry Chemical Physics	19	24	15924	15932	2017	4,123	10.1039/c7cp02651j	AEM
10	On the age hardening response of aluminum containing magnesium sheets with zinc or manganese (AZ- and AM series alloys)	Bohlen, J.; Iparragirre, A.T.; Arruebarrena, G.; Letzig, D.	Magnesium Technology 2017			113	121	2017	Scopus	10.1007/978-3-319-52392-7_19	AEM
11	Differential apoptotic response of MC3T3-E1 pre-osteoblasts to biodegradable magnesium alloys in an in vitro direct culture model	Bonyadi Rad, Ehsan, Mostofi, Sepideh, Katschnig, Matthias, Schmutz, Patrik, Pawelkiewicz, Magdalena, Willumeit-Römer, Regine, Schäfer, Ute, Weinberg, Annelie	Journal of Materials Science: Materials in Medicine	28	10	155	166	2017	2,325	https://doi.org/10.1007/s10856-017-5969-5	AEM
12	Article on the process-related rivet microstructural evolution, material flow and mechanical properties of Ti-6Al-4V/GFRP friction-riveted joints	Borba, N.Z.; Afonso, C.R.M.; Blaga, L.; dos Santos, J.F.; Canto, L.B.; Amancio-Filho, S.T.	Materials	10	2	184		2017	2,654	10.3390/ma10020184	AEM
13	Predictive modeling of long-time crevice evolution at e-coat defects under climate chamber test conditions	Bösch, N.-C.; Höche, D.; Mittelbach, A.; Kainer, K.U.	Materials and Corrosion	68	7	699	710	2017	1,26	10.1002/maco.201609202	AEM
14	Behavior of bone cells in contact with magnesium implant material	Burmester, A.; Willumeit-Römer, R.; Feyerabend, F.	Journal of Biomedical Materials Research - Part B Applied Biomaterials	105	1	165	179	2017	3,189	10.1002/jbm.b.33542	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
15	Corrosion and Creep Resistance of Thixomolded® Magnesium Alloys	Buzolin, R.; Dieringa, H.; Blawert, C.; Frank, H.; Mendis, C.L.; Lohmueller, A.; Kainer, K.U.; Hort, N.	Magnesium Technology 2017			381	389	2017	Scopus	10.1007/978-3-319-52392-7_54	AEM
16	Dissimilar friction stir welding of HSLA steel to austenitic high-Mn TRIP steel	Buzolin, R.H.; Francisco, B.R.; da Silva, E.P.; Pereira, V.F.; Londono, A.J.R.; Maluf, O.; Pinto, H.C.	Materials Science Forum	879		2306	2311	2017	-	10.4028/www.scientific.net/MSF.879.2306	AEM
17	As cast microstructures on the mechanical and corrosion behaviour of ZK40 modified with Gd and Nd additions	Buzolin, R.H.; Mohedano, M.; Mendis, C.L.; Mingo, B.; Tolnai, D.; Blawert, C.; Kainer, K.U.; Pinto, H.; Hort, N.	Materials Science and Engineering A	682		238	247	2017	3,094	10.1016/j.msea.2016.11.022	AEM
18	Kinetic alteration of the 6Mg(NH2)2–9LiH–LiBH4 system by co-adding YCl3 and Li3N	Cao, H., Zhang, W., Pistidda, C., Puszkiel, J., Milanese, C., Santoru, A., Karimi, F., Castro Riglos, M.V., Gizer, G., Welter, E., Bednarcik, J., Etter, M., Chen, P., Klassen, T., Dornheim, M.	Physical Chemistry Chemical Physics	19	47	32105	32115	2017	4,123	10.1039/c7cp06826c	AEM
19	Transition and Alkali Metal Complex Ternary Amides for Ammonia Synthesis and Decomposition	Cao, H.; Guo, J.; Chang, F.; Pistidda, C.; Zhou, W.; Zhang, X.; Santoru, A.; Wu, H.; Schell, N.; Niewa, R.; Chen, P.; Klassen, T.; Dornheim, M.	Chemistry - A European Journal	23	41	9766	9771	2017	5,317	10.1002/chem.201702728	AEM/MML
20	In situ x-ray diffraction studies on the de/rehydrogenation processes of the K2[Zn(NH 2)4]-8LiH system	Cao, H.; Pistidda, C.; Richter, T.M.M.; Santoru, A.; Milanese, C.; Garroni, S.; Bednarcik, J.; Chaudhary, A.-L.; Gizer, G.; Liermann, H.-P.; Niewa, R.; Ping, C.; Klassen, T.; Dornheim, M.	Journal of Physical Chemistry C	121	3	1546	1551	2017	4,536	10.1021/acs.jpcc.6b12095	AEM
21	The effect of Sr(OH)(2) on the hydrogen storage properties of the Mg(NH2)(2)-2LiH system	Cao, H.J.; Wang, H.; Pistidda, C.; Milanese, C.; Zhang, W.J.; Chaudhary, A.L.; Santoru, A.; Garroni, S.; Bednarcik, J.; Liermann, H.P.; Chen, P.; Klassen, T.; Dornheim, M.	Physical Chemistry Chemical Physics	19	12	8457	8464	2017	4,123	10.1039/c7cp00748e	AEM
22	Hydrogenation Study of NaF/NaH/MgB2 Reactive Hydride Composites	Carrillo-Bucio, J.L.; Saldan, I.; Pistidda, C.; Karimi, F.; Suárez-Alcántara, K.; Dornheim, M.; Klassen, T.	Journal of Physical Chemistry C	121	8	4093	4102	2017	4,536	10.1021/acs.jpcc.6b09776	AEM
23	Optimizing structural and mechanical properties of cryogel scaffolds for use in prostate cancer cell culturing	Cecilia A., A. Baecker, E. Hamann, A. Rack, T. van de Kamp, F.J. Gruhl, R. Hofmann, J. Moosmann, S. Hahn, J. Kashef, S. Bauer, T. Farago, L. Helfen, T. Baumbach	Materials Science and Engineering: C	71	1	465	472	2017	4,164	https://doi.org/10.1016/j.msec.2016.1	AEM
24	Synthesis of Mg2FeD6 under low pressure conditions for Mg2FeH6 hydrogen storage studies	Chaudhary, A.-L.; Dietzel, S.; Li, H.-W.; Akiba, E.; Bergemann, N.; Pistidda, C.; Klassen, T.; Dornheim, M.	International Journal of Hydrogen Energy	42	16	11422	11428	2017	3,582	10.1016/j.ijhydene.2017.02.033	AEM
25	Semiordered Hierarchical Metallic Network for Fast and Large Charge-Induced Strain	Cheng, C.; Lührs, L.; Krekeler, T.; Ritter, M.; Weissmüller, J.	Nano Letters	17	8	4774	4780	2017	12,712	10.1021/acs.nanolett.7b01526	AEM
26	Study of process/structure/property relationships in probeless friction stir spot welded AA2198 Al-Li alloy	Chu, Q.; Li, W.Y.; Yang, X.W.; Shen, J.J.; Li, Y.B.; Wang, W.B.	Welding in the World	61	2	291	298	2017	0,948	10.1007/s40194-017-0423-3	AEM
27	Artificial neural network for correction of effects of plasticity in equibiaxial residual stress profiles measured by hole drilling	Chupakhin, S.; Kashaev, N.; Klusemann, B.; Huber, N.	Journal of Strain Analysis for Engineering Design	52	3	137	151	2017	1,222	10.1177/0309324717696400	AEM
28	Friction riveting ('FricRiveting') of 6056 T6 aluminium alloy and polyamide 6: influence of rotational speed on the formation of the anchoring zone and on mechanical performance	Cordeiro de Proença, B.; Blaga, L.; dos Santos, J.F.; Bresciani Canto, L.; Amancio Filho, S.T.	Welding International	31	7	509	518	2017	Scopus	10.1080/09507116.2016.1218627	AEM
29	Effect of mischmetal additions and solution heat treatments (T4) on the microstructure and mechanical properties of thixocast ZK60-RE magnesium alloys	da Silva, E.P.; Buzolin, R.H.; Callegari, B.; Warchomicka, F.; Requena, G.C.; Pinto, H.C.	Materials Science Forum	879		2300	2305	2017	-	10.4028/www.scientific.net/MSF.879.2300	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
30	A simple model for long-time degradation of magnesium under physiological conditions	Dahms, M.; Hoeche, D.; Ahmad Agha, N.; Feyerabend, F.; Willumeit-Roemer, R.	Materials and Corrosion	69	2	191	196	2017	1,26	10.1002/maco.201709461	AEM
31	A correlation between structural features of an amphiphilic diblock copolymer in solution and the structure of the porous surface in an integral asymmetric membrane	Dami, S.; Abetz, C.; Fischer, B.; Radjabian, M.; Georgopanos, P.; Abetz, V.	Polymer (United Kingdom)					2017	3,684	10.1016/j.polymer.2017.05.024	AEM
32	Indirect improvement of high temperature mechanical properties of a Mg-based alloy Elektron21 by addition of AlN nanoparticles	Daudin, R.; Terzi, S.; Mallmann, C.; Martín, R.S.; Lhuissier, P.; Boller, E.; Pacureanu, A.; Katsarou, L.; Dieringa, H.; Salvo, L.	Materials Science and Engineering A	688		76	82	2017	3,094	10.1016/j.msea.2017.01.103	AEM
33	The Effect of Grain Refinement on Hot Tearing in AZ91D Magnesium Alloy	Davies, T.; Bichler, L.; D´Elia, F.; Hort, N.	Magnesium Technology 2017			653	660	2017	Scopus	10.1007/978-3-319-52392-7_90	AEM
34	An investigation on friction spot welding of AA2198-T8 thin sheets	de Barros, P.A.F.; Campanelli, L.C.; Alcântara, N.G.; dos Santos, J.F.	Fatigue and Fracture of Engineering Materials and Structures	40	4	535	542	2017	2,335	10.1111/ffe.12512	AEM
35	Ultrasound Assisted Casting of an AM60 Based Metal Matrix Nanocomposite, Its Properties, and Recyclability	Dieringa H.,Katsarou L.,Buzolin R., Szakács G., Horstmann M., Wolff M., Mendis Ch., Vorozhtsov S., StJohn D.	Metals	7		388	350	2017	1,984	10.3390/met7100388	AEM
36	Influence of cryogenic temperatures on the microstructure and mechanical properties of magnesium alloys: a review	Dieringa, H.	Metals	7		38	52	2017	1,984	10.3390/met7020038	AEM
37	The stiffness and strength of metamaterials based on the inverse opal architecture	do Rosário, J.J.; Berger, J.B.; Lilleodden, E.T.; McMeeking, R.M.; Schneider, G.A.	Extreme Mechanics Letters	12		86	96	2017	Scopus	10.1016/j.eml.2016.07.006	AEM
38	Thermal optimisation of metal hydride reactors for thermal energy storage applications	Dong, D., Humphries, T.D., Sheppard, D.A., Paskevicius, M., Sofianos, M.V., Chaudhary, A-L., Dornheim, M., Buckley, C.E	Sustainable Energy Fuels	1		1820	1829	2017	-	10.1039/C7SE00316A	AEM
39	Synergistic Inhibition effect of rare earth in the corrosion of the AA2024-T3 and CFRP in galvanic couple	Duque-Alvarez, A.E.; Lopez-Sesenes, R.; Contreras-Valenzuela, M.R.; Martínez-Oropeza, A.; Vera-Dimas, J.G.; Zheludkevich, M.	Chemical Engineering Transactions	57		1645	1650	2017	CPCI	10.3303/CET1757275	AEM
40	Reduction of the embrittlement effect of binder contamination in MIM processing of Ti alloys	Ebel, T.; Beißig, T.; Ebner, S.; Luo, X.; Nagaram, A.B.; Zhao, D.	Powder Metallurgy	60	3	157	166	2017	0,779	10.1080/00325899.2017.1291085	AEM
41	Surface excess elasticity of gold: Ab initio coefficients and impact on the effective elastic response of nanowires	Elsner, B.A.M.; Müller, S.; Bargmann, S.; Weissmüller, J.	Acta Materialia	124		468	477	2017	5,301	10.1016/j.actamat.2016.10.066	AEM
42	Hot cracking behaviour of an autogenously laser welded Al-Cu-Li alloy	Enz, J.; Carrarin, C., Riekehr, S., Ventzke, V., Kashaev, N.	Intern. Journal of Advanced Manufacturing Technology			1	12	2017	Scopus	10.1007/s00170-017-1197-x	AEM
43	Mechanical properties of laser beam welded similar and dissimilar aluminum alloys	Enz, J.; Kumar, M.; Riekehr, S.; Ventzke, V.; Huber, N.; Kashaev, N.	Journal of Manufacturing Processes	29		272	280	2017	2,322	10.1016/j.jmapro.2017.07.030	AEM
44	An overview on the materials and mechanical behavior used in fused deposition modeling	Falck, R., Dos Santos, J.F., Amancio-Filho, S.T.	Annual Technical Conference - ANTEC, Conference Proceedings	2017		1689	1695	2017	Proceeding		AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
45	Ultrasonic joining of through-the-thickness reinforced TI-4AL-6V and polyetherimide hybrid joints	Feistauer, E.E., Ebel, T., dos Santos, J.F., Amancio-Filho, S.T.	Annual Technical Conference - ANTEC, Conference Proceedings	2017		1718	1724	2017	Proceeding		AEM
46	Influence of rotational speed on process characteristics in friction surfacing of Ti-6Al-4V	Fitseva, V.; Hanke, S.; dos Santos, J.F.	Materials and Manufacturing Processes	32	5	557	563	2017	2,274	10.1080/10426914.2016.1257799	AEM
47	Resonant single mode thermal emitter based on a silicon waveguide	Fohrmann, L.S.; Petrov, A.Y.; Eich, M.	Optics InfoBase Conference Papers	Part F52-IPRSN 2017				2017	-	10.1364/IPRSN.2017.JTu4A.5	AEM
48	Integrating cell on chip - novel waveguide platform employing ultra-long optical paths	Fohrmann, L.S.; Sommer, G.; Pitruzzello, G.; Krauss, T.F.; Petrov, A.Y.; Eich, M.	Optics InfoBase Conference Papers	Part F52-IPRSN 2017				2017	-	10.1364/IPRSN.2017.ITu1A.3	AEM
49	Fiber laser welding of dissimilar titanium (Ti-6Al-4V/cp-Ti) T-joints and their laser forming process for aircraft application	Froend, M.; Fomin, F.; Riekehr, S.; Alvarez, P.; Zubiri, F.; Bauer, S.; Klusemann, B.; Kashaev, N.	Optics and Laser Technology	96		123	131	2017	2,109	10.1016/j.optlastec.2017.05.017	AEM
50	Morphology and stability of orthorhombic and hexagonal phases in a lamellar γ-Ti-42Al-8.5Nb alloy-A transmission electron microscopy study	Gabrisch, H.; Lorenz, U.; Pyczak, F.; Rackel, M.; Stark, A.	Acta Materialia	135		304	313	2017	5,301	10.1016/j.actamat.2017.05.067	AEM
51	How Density Functional Theory Surface Energies May Explain the Morphology of Particles, Nanosheets, and Conversion Films Based on Layered Double Hydroxides	Galvao, T.L.P.; Neves, C.S.; Zheludkevich, M.L.; Gomes, J.R.B.; Tedim, J.; Ferreira, M.G.S.	Journal of Physical Chemistry C	121	4	2211	2220	2017	4,536	10.1021/acs.jpcc.6b10860	AEM
52	Microstructure and residual stress in rotary friction welded dissimilar metals of AA7020 aluminium alloy with 316L steel	Gan, W.; Hofmann, M.; Ventzke, V.; Randau, C.; Huang, Y.; Kriele, A.; Brokmeier, H.-G.; Mueller, M.	Materials Science Forum	879		572	577	2017	-	10.4028/www.scientific.net/MSF.879.572	AEM/MML
53	In situ tensile texture analysis of a new Mg-RE alloy	Gan, W.M.; Huang, Y.D.; Xu, Y.L.; Hofmann, M.; Kainer, K.U.; Hort, N.	Materials Science Forum	879		779	783	2017	-	10.4028/www.scientific.net/MSF.879.779	AEM/MML
54	Evolution of twinning in extruded AZ31 alloy with bimodal grain structure	Garcés, G.; Oñorbe, E.; Gan, W.; Máthis, K.; Tolnai, D.; Horváth, K.; Pérez, P.; Adeva, P.	Materials Characterization	126		116	124	2017	2,714	10.1016/j.matchar.2017.02.017	AEM/MML
55	Mechanically activated metathesis reaction in NaNH2–MgH2 powder mixtures	Garroni, S.; Delogu, F.; Bonatto, Minella, C.; Pistidda, C.; Cuesta-Lopez, S.	Journal of Materials Science	52	20	11891	11899	2017	2,599	10.1007/s10853-017-1220-5	AEM
56	The Role of Zn Additions on the Microstructure and Mechanical Properties of Mg–Nd–Zn Alloys	Gavras, S.; Subroto, T.; Buzolin, R.H.; Hort, N.; Tolnai, D.	International Journal of Metalcasting					2017	0,392	10.1007/s40962-017-0174-3	AEM
57	The Effects of HAc Etching on the Degradation Behavior of Mg-5Gd	Gawlik, Marcjanna Maria, Markus Steiner, Björn Wiese, Jorge González, Frank Feyerabend, Michael Dahms, Thomas Ebel, Regine Willumeit-Römer	Journal of Medical Materials and Technologies	1	2	22	25	2017	Proceeding	https://doi.org/10.24354/medmat.v1i	AEM
58	Improvement of mechanical properties by a polydopamine interface in highly filled hierarchical composites of titanium dioxide particles and poly(vinyl butyral)	Georgopanos, P.; Eichner, E.; Filiz, V.; Handge, U.A.; Schneider, G.A.; Heinrich, S.; Abetz, V.	Composites Science and Technology	146		73	82	2017	4,873	10.1016/j.compscitech.2017.04.017	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
59	Synthesis, molecular characterization and self-assembly of (PS-: B -PDMS)n type linear (n = 1, 2) and star (n = 3, 4) block copolymers	Georgopanos, P.; Lo, T.-Y.; Ho, R.-M.; Avgeropoulos, A.	Polymer Chemistry	8	5	843	850	2017	5,375	10.1039/c6py01768a	AEM
60	Exceptionally strong, stiff and hard hybrid material based on an elastomer and isotropically shaped ceramic nanoparticles	Georgopanos, P.; Schneider, G.A.; Dreyer, A.; Handge, U.A.; Filiz, V.; Feld, A.; Yilmaz, E.D.; Krekeler, T.; Ritter, M.; Weller, H.; Abetz, V.	Scientific Reports	7	1	7314		2017	4,259	10.1038/s41598-017-07521-0	AEM
61	Microstructure and degradation performance of biodegradable Mg-Si-Sr implant alloys	Gil-Santos, A.; Marco, I.; Moelans, N.; Hort, N.; Van der Biest, O.	Materials Science and Engineering C	71		25	34	2017	4,164	10.1016/j.msec.2016.09.056	AEM
62	Microstructure and mechanical characterization of cast Mg-Ca-Si alloys	Gil-Santos, A.; Szakacs, G.; Moelans, N.; Hort, N.; Van der Biest, O.	Journal of Alloys and Compounds	694		767	776	2017	3,133	10.1016/j.jallcom.2016.10.059	AEM
63	Semi-stationary shoulder bobbin tool friction stir welding of AA2198-T851	Goebel, J.; Reimann, M.; Norman, A.; dos Santos, J.F.	Journal of Materials Processing Technology	245		37	45	2017	3,147	10.1016/j.jmatprotec.2017.02.011	AEM
64	Influence of aluminum surface pre-treatments on the bonding mechanisms and mechanical performance of metal-composite single-lap joints	Goushegir, S.M., dos Santos, J.F., Amancio-Filho, S.T.	Welding in the World	61	6	1099	1115	2017	Scopus	10.1007/s40194-017-0509-y	AEM
65	Electrocatalytic methanol oxidation with nanoporous gold: Microstructure and selectivity	Graf, M., Haensch, M., Carstens, J., Wittstock, G., Weissmüller, J.	Nanoscale	9	45	17839	17848	2017	Scopus	10.1039/c7nr05124g	AEM
66	Nanoporous gold by alloy corrosion: Method-structure-property relationships	Graf, M.; Roschning, B.; Weissmüller, J.	Journal of the Electrochemical Society	164	4	C194	C200	2017	3,259	10.1149/2.1681704jes	AEM
67	Effects of Mn and Zn Solutes on Grain Refinement of Commercial Pure Magnesium	Gu, J.; Huang, Y.; Zhang, M.; Kainer, K.U.; Hort, N.	Magnesium Technology 2017			191	198	2017	Proceeding	10.1007/978-3-319-52392-7_29	AEM
68	The influence of alpha-phase field heat treatment on the tensile and primary creep resistance of a powder metallurgical processed Ti-45Al-5Nb-0.2B-0.2C titanium aluminide alloy	Guimarães, Marcondes, Rafael Paiotti , Juliano Soyama, Thomas Ebel, Márcio Celso Fredel, Florian Pyczak	Materials Science Forum	899		418	423	2017	Proceeding	https://doi.org/10.4028/www.scientif	AEM
69	Microstructure stability of γ-TiAl produced by selective laser melting	Gussone, J.; Garces, G.; Haubrich, J.; Stark, A.; Hagedorn, Y.-C.; Schell, N.; Requena, G.	Scripta Materialia	130		110	113	2017	3,747	10.1016/j.scriptamat.2016.11.028	AEM/MML
70	The effect of pulse waveforms on surface morphology, composition and corrosion behavior of Al2O3 and Al2O3/TiO2 nano-composite PEO coatings on 7075 aluminum alloy	Hakimizad, A.; Raeissi, K.; Golozar, M.A.; Lu, X.; Blawert, C.; Zheludkevich, M.L.	Surface and Coatings Technology	324		208	221	2017	2,589	10.1016/j.surfcoat.2017.05.068	AEM
71	Blend membranes of ionic liquid and polymers of intrinsic microporosity with improved gas separation characteristics	Halder, K.; Khan, M.M.; Grünauer, J.; Shishatskiy, S.; Abetz, C.; Filiz, V.; Abetz, V.	Journal of Membrane Science	539		368	382	2017	6,035	10.1016/j.memsci.2017.06.022	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
72	Analysis of compaction and life-time prediction of porous polymer membranes: influence of morphology, diffusion and creep behaviour	Handge, U.A.	Polymer International	66	4	521	531	2017	2,07	10.1002/pi.5284	AEM
73	Comparative study of severe plastic deformation at elevated temperatures of two aluminium alloys during friction surfacing	Hanke, S.; dos Santos, J.F.	Journal of Materials Processing Technology	247		257	267	2017	3,147	10.1016/j.jmatprotec.2017.04.021	AEM
74	Degradation mechanisms of pcBN tool material during Friction Stir Welding of Ni-base alloy 625	Hanke, S.; Lemos, G.V.B.; Bergmann, L.; Martinazzi, D.; dos Santos, J.F.; Strohaecker, T.R.	Wear	376-377		403	408	2017	2,531	10.1016/j.wear.2017.01.070	AEM
75	Microstructural features of dynamic recrystallization in alloy 625 friction surfacing coatings	Hanke, S.; Sena, I.; Coelho, R.S.; dos Santos, J.F.	Materials and Manufacturing Processes			1	7	2017	2,274	10.1080/10426914.2017.1291947	AEM
76	Synthesis, structures and thermal decomposition of ammine MxB12H12 complexes (M = Li, Na, Ca)	Hansen, B.R.S.; Tumanov, N.; Santoru, A.; Pistidda, C.; Bednarcik, J.; Klassen, T.; Dornheim, M.; Filinchuk, Y.; Jensen, T.R.	Dalton Transactions	46	24	7770	7781	2017	4,029	10.1039/c7dt01414g	AEM
77	Biobased Polycarbonate as a Gas Separation Membrane and "Breathing Glass" for Energy Saving Applications	Hauenstein, O.; Rahman, M.M.; Elsayed, M.; Krause-Rehberg, R.; Agarwal, S.; Abetz, V.; Greiner, A.	ADVANCED MATERIALS TECHNOLOGIES	2	5	1700026		2017	0	10.1002/admt.201700026	AEM
78	A new method of hybrid friction stir welding assisted by friction surfacing for joining dissimilar Ti/Al alloy	Huang, Y.; Lv, Z.; Wan, L.; Shen, J.; dos Santos, J.F.	Materials Letters	207		172	175	2017	2,572	10.1016/j.matlet.2017.07.081	AEM
79	The role of geometrically necessary dislocations in cantilever beam bending experiments of single crystals	Husser, E.; Bargmann, S.	Materials	10	3	289		2017	2,654	10.3390/ma10030289	AEM
80	Size affected dislocation activity in crystals: Advanced surface and grain boundary conditions	Husser, E.; Soyarslan, C.; Bargmann, S.	Extreme Mechanics Letters	13		36	41	2017	Scopus	10.1016/j.eml.2017.01.007	AEM
81	Crack nucleation and elastic / plastic deformation of TiAl alloys investigated by in-situ loaded atomic force microscopy	Iqbal, F., Pyczak, F., Neumeier, S., Göken, M.	Mater. Sci. Eng. A	698		11	16	2017	Scopus		AEM
82	Electrochemical tuning of the optical properties of nanoporous gold	Jalas, D.; Shao, L.-H.; Canchi, R.; Okuma, T.; Lang, S.; Petrov, A.; Weissmüller, J.; Eich, M.	Scientific Reports	7		44139		2017	4,259	10.1038/srep44139	AEM
83	Deformation mechanisms in nanoporous metals: Effect of ligament shape and disorder	Jiao, J.; Huber, N.	Computational Materials Science	127		194	203	2017	2,292	10.1016/j.commatsci.2016.10.035	AEM
84	Effect of nodal mass on macroscopic mechanical properties of nanoporous metals	Jiao, J.; Huber, N.	Intern. Journal of Mechanical Science	134		234	243	2017	Scopus	10.1016/j.ijmecsci.2017.10.011	AEM
85	Nanoporous Metals with Structural Hierarchy: A Review	Juarez, T., Biener, J., Weissmüller, J., Hodge, A.M.	Advanced Engineering Materials	19	12			2017	2,319	10.1002/adem.201700389	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
86	Colour -value based method for polydopamine coating-stability characterization on polyethersulfone membranes	Juliana I. Clodt, Thomas Bucher, Andrej Grabowski, Martin Hein, Volkan Filiz	Membranes	7	4	70		2017	-	10.3390/membranes7040070	AEM
87	Perfluorinated Compounds as Test Media for Porous Membranes	Juliana I. Clodt, Volkan Filiz and Sergey Shishatskiy	Membranes	7	3	51		2017	-	10.3390/membranes7030051	AEM
88	Orienting Silicon-Containing Block Copolymer Films with Perpendicular Cylinders via Entropy and Surface Plasma Treatment	Kai-Yuan Lu, Ting-Ya Lo, Prokopios Georgopanos, Apostolos Avgeropoulos, An-Chang Shi and Rong-Ming Ho	Macromolecules	50	23	9403	9410	2017	5,835	10.1021/acs.macromol.7b02218	AEM
89	Fiber laser beam welding of Ti-6242 – Effect of processing parameters on microstructural and mechanical properties	Kashaev, N.; Pugachev, D.; Riekehr, S.; Ventzke, V.	Materials Science Forum	879		903	908	2017	-	10.4028/www.scientific.net/MSF.879.903	AEM
90	Microstructure and mechanical performance of autogenously fibre laser beam welded Ti-6242 butt joints	Kashaev, N.; Pugachev, D.; Ventzke, V.; Fomin, F.; Burkhardt, I.; Enz, J.; Riekehr, S.	Materials Science and Engineering A	694		110	120	2017	3,094	10.1016/j.msea.2017.03.115	AEM
91	Effects of laser shock peening on the microstructure and fatigue crack propagation behaviour of thin AA2024 specimens	Kashaev, N.; Ventzke, V.; Horstmann, M.; Chupakhin, S.; Riekehr, S.; Falck, R.; Maawad, E.; Staron, P.; Schell, N.; Huber, N.	International Journal of Fatigue	98		223	233	2017	2,899	10.1016/j.ijfatigue.2017.01.042	AEM/MML
92	Static recrystallization behaviour of cold rolled Mg-Zn-Y alloy and role of solute segregation in microstructure evolution	Kim, Y.M.; Mendis, C.; Sasaski, T.; Letzig, D.; Pyczak, F.; Hono, K.; Yi, S.	Scripta Materialia	136		41	45	2017	3,747	10.1016/j.scriptamat.2017.04.001	AEM
93	Influence of plasma electrolytic oxidation coatings on fatigue performance of AZ31 Mg alloy	Klein, M.; Lu, X.; Blawert, C.; Kainer, K.U.; Zheludkevich, M.L.; Walther, F.	Materials and Corrosion	68	1	50	57	2017	1,26	10.1002/maco.201609088	AEM
94	The crystal structures of carbonyl iron powder - Revised using in situ synchrotron XRPD	König, R., Müller, S., Dinnebier, R.E., Hinrichsen, B., Müller, P., Ribbens, A., Hwang, J., Liebscher, R., Etter, M., Pistidda, C.	Zeitschrift fur Kristallographie - Crystalline Materials	232	12	835	842	2017	3,179	10.1515/zkri-2017-	AEM
95	Copolymers of 1,2-disubstituted acetylenes containing trifluoropropyl groups synthesized in the presence of NbCl5-based catalyst systems: Structure and gas-transport behavior	Kossov, A.A.; Buhr, K.; Shishatskii, S.M.; Litvinova, E.G.; Khotimskii, V.S.	Polymer Science - Series B	59	4	452	458	2017	0,621	10.1134/S1560090417040066	AEM
96	Silver-rich clusters in nanoporous gold	Krekeler, T.; Straßer, A.V.; Graf, M.; Wang, K.; Hartig, C.; Ritter, M.; Weissmüller, J.	Materials Research Letters	5	5	314	321	2017	4,773	10.1080/21663831.2016.1276485	AEM
97	Current Status and Recent Developments in Porous Magnesium Fabrication	Kucharczyk, A.; Naplocha, K.; Kaczmar, J.W.; Dieringa, H.; Kainer, K.U.	Advanced Engineering Materials					2017	2,319	10.1002/adem.201700562	AEM
98	Variation of Rare Earth Elements in the Magnesium Alloy ME21 for the Sheet Production	Kurz, G.; Petersen, T.; Bohlen, J.; Letzig, D.	Magnesium Technology 2017			353	363	2017	Scopus	10.1007/978-3-319-52392-7_51	AEM
99	Antimicrobial activity of 2-mercaptobenzothiazole released from environmentally friendly nanostructured layered double hydroxides	Kuznetsova, A.; Domingues, P.M.; Silva, T.; Almeida, A.; Zheludkevich, M.L.; Tedim, J.; Ferreira, M.G.S.; Cunha, A.	Journal of Applied Microbiology	122	5	1207	1218	2017	2,099	10.1111/jam.13433	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
100	Microstructure of gas atomised γ-TiAl based alloy powders	Laipple, D., Wang, L., Rackel, M.W., Stark, A., Schwebke, B., Schreyer, A., and Pyczak, F.	MRS Advances			1	6	2017	Scopus	10.1557/adv.2017.88	AEM/MML
101	Comprehensive screening of Mg corrosion inhibitors	Lamaka, S.V.; Vaghefinazari, B.; Mei, D.; Petrauskas, R.P.; Hoeche, D.; Zheludkevich, M-L.	Corrosion Science	128		224	240	2017	5,245	1016/j.corsci.2017.07.011	AEM
102	Using SRμCT to define water transport capacity in Picea abies	Lautner Silke, Claudia Lenz, Jörg Hammel, Julian Moosmann, Michael Kühn, Michele Caselle, Matthias Vogelgesang, Andreas Kopmann, Felix Beckmann	Proc. SPIE, Developments in X-Ray Tomography	XI		1039118		2017	Proceeding	http://dx.doi.org/10.1117/12.2287221	AEM/MML
103	Inkjet-Printing of Single-Spot-Structured Electrodes for Photoelectrochemical Water Splitting	Lehmann, D.; Haverkamp, V.; Krüger, K.; Treekamol, Y.; Schieda, M.	Advanced Engineering Materials	19	1	1600278		2017	2,319	10.1002/adem.201600278	AEM
104	Development of a TiCp reinforced Ni-Based Superalloy MMC, with high creep resistance and reduced weight	Lemos, G.; Fredel, M.C.; Pyczak, F.; Tetzlaff, U.	Key Engineering Materials	742 KEM		189	196	2017	-	10.4028/www.scientific.net/KEM.742.189	AEM
105	Residual stress and microstructural features of friction-stir-welded GL E36 shipbuilding steel	Lemos, G.V.B.; Cunha, P.H.C.P.; Nunes, R.M.; Bergmann, L.; dos Santos, J.F.; Clarke, T.	Materials Science and Technology (United Kingdom)			1	9	2017	1,538	10.1080/02670836.2017.1361148	AEM
106	Progress in friction stir welding of Ni alloys	Lemos, G.V.B.; Hanke, S.; dos Santos, J.F.; Bergmann, L.; Reguly, A.; Strohaecker, T.R.	Science and Technology of Welding and Joining	22	8	643	657	2017	2,05	10.1080/13621718.2017.1288953	AEM
107	Residual stress evaluation in friction stir welds of inconel 625 [Avaliação das tensões residuais em juntas soldadas de inconel 625 obtidas através da soldagem por fricção e mistura mecânica]	Lemos, G.V.B.; Nunes, R.M.; Doll, P.; Bergmann, L.; Strohaecker, T.R.; dos Santos, J.F.	Soldagem e Inspecao	22	1	35	45	2017	SciELO/Scopus	10.1590/0104-9224/SI2201.05	AEM
108	Thermodynamic Properties and Reversibility of $LiBH_4–Mg_2FeH_6$ *Composite Materials*	Li, G., Matsuo, M., Takagi, S., Chaudhary, A-L., Sato, T., Dornheim, M., Orimo, SI.	Inorganics	5	4	81		2017	-	10.3390/inorganics5040081	AEM
109	Thermal Stability of γ' phase in long-term aged Co-Al-W alloys	Li, Y., Pyczak, F., Oehring, M., Wang, L., Paul, J., Lorenz, U., Yao, Z.	Journal of Alloys and Compounds	729		266	276	2017	3, 133	10.1016/j.jallcom.2017.09.157	AEM/MML
110	Microstructure evolution in L12 hardened Co-base superalloys during creep	Li, Y., Pyczak, F., Paul, J., Oehring, M., Lorenz, U., Yao, Z.	Journal of Materials Research	32		4522	4530	2017	1,673	10.1557/jmr.2017.362	AEM
111	Gyroid-structured nanoporous polymer monolith from PDMS-containing block copolymers for templated synthesis	Lin, T.-C.; Yang, K.-C.; Georgopanos, P.; Avgeropoulos, A.; Ho, R.-M.	Polymer (United Kingdom)	126		360	367	2017	3,684	10.1016/j.polymer.2017.04.045	AEM
112	Influence of the Microstructure and Silver Content on Degradation, Cytocompatibility, and Antibacterial Properties of Magnesium-Silver Alloys in Vitro	Liu, Z.; Schade, R.; Luthringer, B.; Hort, N.; Rothe, H.; Müller, S.; Liefeith, K.; Willumeit-Römer, R.; Feyerabend, F.	Oxidative Medicine and Cellular Longevity	2017		8091265		2017	4,593	10.1155/2017/8091265	AEM
113	Cononsolvency in the 'drunken' state: The thermoresponsiveness of a new acrylamide copolymer in water-alcohol mixtures	Lucht, N.; Eggers, S.; Abetz, V.	Polymer Chemistry	8	7	1196	1205	2017	5,375	10.1039/c6py01751g	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
114	Plastic Poisson's Ratio of Nanoporous Metals: A Macroscopic Signature of Tension-Compression Asymmetry at the Nanoscale	Lührs, L., Zandersons, B., Huber, N., Weissmüller, J.	Nano Letters	17	10	6258	6266	2017	Scopus	10.1021/acs.nanolett.7b02950	AEM
115	Carbide evolution and its potential reduction methods in Ti-22Nb based alloys prepared by metal injection moulding	Luo Xia, Thomas Ebel, Florian Pyczak, Wolfgang Limberg, Yuanhua Lin	Materials Letters	193		295	298	2017	2,572	http://dx.doi.org/10.1016/j.matlet.20	AEM/MML
116	Multiaxial fatigue life assessment of sintered porous iron under proportional and non-proportional loadings	Ma, S.; Markert, B.; Yuan, H.	International Journal of Fatigue	97		214	226	2017	2,899	10.1016/j.ijfatigue.2017.01.005	AEM
117	A continuum damage model for multi-axial low cycle fatigue of porous sintered metals based on the critical plane concept	Ma, S.; Yuan, H.	Mechanics of Materials	104		13	25	2017	2,651	10.1016/j.mechmat.2016.09.013	AEM
118	A model describing the growth of a PEO coating on AM50 Mg alloy under constant voltage mode	Ma, X.; Blawert, C.; Höche, D.; Kainer, K.U.; Zheludkevich, M.L.	Electrochimica Acta	251		461	474	2017	4,798	10.1016/j.electacta.2017.08.147	AEM
119	Solid solution treatment on strength and corrosion of biodegradable Mg6Ag wires	Maier, P.; Zimmermann, F.; Rinne, M.; Szakács, G.; Hort, N.; Vogt, C.	Materials and Corrosion					2017	1,26	10.1002/maco.201709502	AEM
120	Influence of Y2O3 nanoparticles on the twinning of single crystalline magnesium	Mallmann, C.; Simar, A.; Ferrié, E.; Fivel, M.; Lilleodden, E.T.	Scripta Materialia	138		79	82	2017	3,747	10.1016/j.scriptamat.2017.05.016	AEM
121	On the impact of capillarity for strength at the nanoscale	Mameka, N., Markmann, J., Weissmüller, J.	Nature Communications	8	1			2017	12,124	10.1038/s41467-017-01434-2	AEM
122	Composite surface pre-treatments: improvement on adhesion mechanisms and mechanical performance of metal-composite friction spot joints with additional film interlayer	Manente, N.; Goushegir, S.M.; Scharnagl, N.; dos Santos, J.F.; Canto, L.B., Amancio-Filho, S.T.	The Journal of Adhesion					2017	Scopus	10.1080/00218464.2017.1378101	AEM
123	In vivo and in vitro degradation comparison of pure MG, MG-10GD and MG-2AG: A short term study	Marco, I.; Myrissa, A.; Martinelli, E.; Feyerabend, F.; Willumeit-Römer, R.; Weinberg, A.M.; Van der Biest, O.	European Cells and Materials	33		90	104	2017	3,343	10.22203/eCM.v033a07	AEM
124	Influence of α-phase field heat treatment on the tensile and primary creep resistance of a powder metallurgical processed Ti-45Al-5Nb-0.2B-0.2C titanium aluminide alloy	Marcondes Guimarães, R.P.; Soyama, J.; Ebel, T.; Fredel, M.C.; Pyczak, F.	Materials Science Forum	899 MSF		418	423	2017	-	10.4028/www.scientific.net/MSF.899.418	AEM
125	Elimination of the Crystallinity of Long Polyethylene Oxide-Based Copolymers for Gas Separation Membranes by Using Electron Beam Irradiation	Marcos-Fernández, A.; Adem, E.; Hernández-Sampelayo, A.R.; Báez, J.E.; Palacio, L.; Prádanos, P.; Tena, A.; Hernández, A.	Macromolecular Chemistry and Physics	218	5	1600441		2017	2,5	10.1002/macp.201600441	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
126	Chondrogenic differentiation of ATDC5-cells under the influence of Mg and Mg alloy degradation	Martinez, Sanchez, A.H.; Feyerabend, F.; Laipple, D.; Willumeit-Römer, R.; Weinberg, A.; Luthringer, B.J.C.	Materials Science and Engineering C	72		378	388	2017	4,164	10.1016/j.msec.2016.11.062	AEM/MML
127	Influence of Solvent on the Structure of an Amphiphilic Block Copolymer in Solution and in Formation of an Integral Asymmetric Membrane	Maryam Radjabian, Clarissa Abetz, Birgit Fischer, Andreas Meyer, Volker Abetz	ACS Applied Materials and Interfaces	9	37	31224	31234	2017	7,504	10.1021/acsami.6b15199	AEM
128	Hierarchically organized Li-Al-LDH nano-flakes: A low-temperature approach to seal porous anodic oxide on aluminum alloys	Mata, D.; Serdechnova, M.; Mohedano, M.; Mendis, C.L.; Lamaka, S.V.; Tedim, J.; Hack, T.; Nixon, S.; Zheludkevich, M.L.	RSC Advances	7	56	35357	35367	2017	3,108	10.1039/c7ra05593e	AEM
129	Recent advances in energy efficient PEO processing of aluminium alloys	Matykina, E.; Arrabal, R.; Mohedano, M.; Mingo, B.; Gonzalez, J.; Pardo, A.; Merino, M.C.	Transactions of Nonferrous Metals Society of China (English Edition)	27	7	1439	1454	2017	1,342	10.1016/S1003-6326(17)60166-3	AEM
130	Hydrogen embrittlement under cathodic protection of friction stir welded UNS S32760 super duplex stainless steel	Meinhardt, C.P.; Scheid, A.; dos Santos, J.F.; Bergmann, L.A.; Favaro, M.B.; Fortis Kwietniewski, C.E.	Materials Science and Engineering A	706		48	56	2017	3,094	10.1016/j.msea.2017.08.117	AEM
131	Effect of equal channel angular pressing on in vitro degradation of LAE442 magnesium alloy	Minárik, P.; Jablonská, E.; Král, R.; Lipov, J.; Ruml, T.; Blawert, C.; Hadzima, B.; Chmelík, F.	Materials Science and Engineering C	73		736	742	2017	4,164	10.1016/j.msec.2016.12.120	AEM
132	Corrosion of Mg-9Al alloy with minor alloying elements (Mn, Nd, Ca, Y and Sn)	Mingo, B.; Arrabal, R.; Mohedano, M.; Mendis, C.L.; del, Olmo, R.; Matykina, E.; Hort, N.; Merino, M.C.; Pardo, A.	Materials and Design	130		48	58	2017	4,364	10.1016/j.matdes.2017.05.048	AEM
133	Characterization and corrosion behavior of binary Mg-Ga alloys	Mohedano, M.; Blawert, C.; Yasakau, K.A.; Arrabal, R.; Matykina, E.; Mingo, B.; Scharnagl, N.; Ferreira, M.G.S.; Zheludkevich, M.L.	Materials Characterization	128		85	99	2017	2,714	10.1016/j.matchar.2017.03.040	AEM
134	Bioactive plasma electrolytic oxidation coatings on Mg-Ca alloy to control degradation behaviour	Mohedano, M.; Luthringer, B.J.C.; Mingo, B.; Feyerabend, F.; Arrabal, R.; Sanchez-Egido, P.J.; Blawert, C.; Willumeit-Römer, R.; Zheludkevich, M.L.; Matykina, E.	Surface and Coatings Technology	315		454	467	2017	2,589	10.1016/j.surfcoat.2017.02.050	AEM
135	Active protective PEO coatings on AA2024: Role of voltage on in-situ LDH growth	Mohedano, M.; Serdechnova, M.; Starykevich, M.; Karpushenkov, S.; Bouali, A.C.; Ferreira, M.G.S.; Zheludkevich, M.L.	Materials and Design	120		36	46	2017	4,364	10.1016/j.matdes.2017.01.097	AEM
136	Biodegradable magnesium-based implants in bone studied by synchrotron radiation microtomography	Moosmann Julian, Berit Zeller-Plumhoff, D. C. Florian Wieland, Silvia Galli, Thomas Dose, Hilmar Burmester, Fabian Wilde, Diana Krüger, Björn Wiese, Alexander Hipp, Felix Beckmann, Jörg Hammel, Regine Willumeit-Römer	Proc. SPIE, Developments in X-Ray Tomography	XI		10391-23		2017	Proceeding	http://dx.doi.org/10.1117/12.2275121	AEM/MML
137	Gadolinium accumulation in organs of Sprague–Dawley® rats after implantation of a biodegradable magnesium-gadolinium alloy	Myrissa, A.; Braeuer, S.; Martinelli, E.; Willumeit-Römer, R.; Goessler, W.; Weinberg, A.M.	Acta Biomaterialia	48		521	529	2017	6,319	10.1016/j.actbio.2016.11.024	AEM
138	Closed-form formulas for the effective properties of random particulate nanocomposites with complete Gurtin–Murdoch model of material surfaces	Nazarenko, L.; Bargmann, S.; Stolarski, H.	Continuum Mechanics and Thermodynamics	29	1	77	96	2017	2,529	10.1007/s00161-016-0521-2	AEM
139	On the origin of the anomalous compliance of dealloying-derived nanoporous gold	Ngô, B.-N.D.; Roschning, B.; Albe, K.; Weissmüller, J.; Markmann, J.	Scripta Materialia	130		74	77	2017	3,747	10.1016/j.scriptamat.2016.11.006	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
140	Degradation behavior of as cast and powder metallurgy processed Mg-Ca alloys	Nidadavolu, E., Feyerabend, F., Ebel, T., Willumeit-Römer, R., Dahms, M	Journal of Medical Materials and Technologies	1	2	18	21	2017	Proceeding	https://doi.org/10.24354/medmat.v1i	AEM
141	Continuous Production of Macroporous Films: An Alternative to Breath Figure Assembly	Noor, N.; Koll, J.; Abetz, C.; Notzke, H.; Abetz, V.	Scientific Reports	7	1	8050		2017	4,259	10.1038/s41598-017-08027-5	AEM
142	Corrosion inhibition of copper in aqueous chloride solution by 1 H-1,2,3-triazole and 1,2,4-triazole and their combinations: Electrochemical, Raman and theoretical studies	Ofoegbu, S.U.; Galvão, T.L.P.; Gomes, J.R.B.; Tedim, J.; Nogueira, H.I.S.; Ferreira, M.G.S.; Zheludkevich, M.L.	Physical Chemistry Chemical Physics	19	8	6113	6129	2017	4,123	10.1039/c7cp00241f	AEM
143	Micro-to-nano-scale deformation mechanism of a Ti-based dendritic-ultrafine eutectic alloy exhibiting large tensile ductility	Okulov, I.V.; Bönisch, M.; Volegov, A.S.; Shahabi, H.S.; Wendrock, H.; Gemming, T.; Eckert, J.	Materials Science and Engineering A	682		673	678	2017	3,094	10.1016/j.msea.2016.11.082	AEM
144	Composition optimization of low modulus and high-strength TiNb-based alloys for biomedical applications	Okulov, I.V.; Volegov, A.S.; Attar, H.; Bönisch, M.; Ehtemam-Haghighi, S.; Calin, M.; Eckert, J.	Journal of the Mechanical Behavior of Biomedical Materials	65		866	871	2017	3,11	10.1016/j.jmbbm.2016.10.013	AEM
145	Dealloying-based interpenetrating-phase nanocomposites matching the elastic behavior of human bone	Okulov, I.V.; Weissmüller, J.; Markmann, J.	Scientific Reports	7	1	20		2017	4,259	10.1038/s41598-017-00048-4	AEM
146	Porous UHMWPE Membranes and Composites Filled with Carbon Nanotubes: Permeability, Mechanical, and Electrical Properties	Otto, C.; Handge, U.A.; Georgopanos, P.; Aschenbrenner, O.; Kerwitz, J.; Abetz, C.; Metze, A.-L.; Abetz, V.	Macromolecular Materials and Engineering	302	4	1600405		2017	2,836	10.1002/mame.201600405	AEM
147	Temperature dependence of plastic instability in Al alloys: A nanoindentation study	Ovri, H.; Lilleodden, E.T.	Materials and Design	125		69	75	2017	4,364	10.1016/j.matdes.2017.03.071	AEM
148	Metal borohydrides and derivatives - synthesis, structure and properties	Paskevicius, M.; Jepsen, L.H.; Schouwink, P.; Cerny, R.; Ravnsbaek, D.B., Filinchuk, Y.; Dornheim, M.; Besenbacher, F.; Jensen, T.R.	Chemical Society Reviews	46	5	1565	1634	2017	38,618	10.1039/c6cs00705h	AEM
149	Depth resolved near-surface residual stresses in γ-based TiAl before and after high-temperature exposure	Paul, J.D.H.; Oehring, M.; Appel, F.; Pyczak, F.	Intermetallics	84		103	111	2017	3,14	10.1016/j.intermet.2016.12.014	AEM/MML
150	Microstructure and mechanical behavior of friction spot welded AA6181 T4/Ti6Al4V dissimilar joints	Plaine, A.H.; Suhuddin, U.F.H.; Alcântara, N.G.; dos Santos, J.F.	International Journal of Advanced Manufacturing Technology			1	12	2017	2,209	10.1007/s00170-017-0439-2	AEM
151	Tetrahydroborates: Development and Potential as Hydrogen Storage Medium	Puszkiel Julian, Garroni Sebastiano, Milanese Chiara, Gennari Fabiana, Klassen Thomas, Dornheim Martin and Pistidda Claudio	INORGANICS	5	4	74			-	10.3390/inorganics5040074	AEM
152	Changing the dehydrogenation pathway of LiBH4-MgH2via nanosized lithiated TiO2	Puszkiel, J.A.; Castro Riglos, M.V.; Karimi, F.; Santoru, A.; Pistidda, C.; Klassen, T.; Bellosta Von Colbe, J.M.; Dornheim, M.	Physical Chemistry Chemical Physics	19	11	7455	7460	2017	4,123	10.1039/c6cp08278e	AEM
153	A novel catalytic route for hydrogenation-dehydrogenation of 2LiH + MgB2: Via in situ formed core-shell LixTiO2 nanoparticles	Puszkiel, J.A.; Castro Riglos, M.V.; Ramallo-López, J.M.; Mizrahi, M.; Karimi, F.; Santoru, A.; Hoell, A.; Gennari, F.C.; Larochette, P.A.; Pistidda, C.; Klassen, T.; Bellosta Von Colbe, J.M.; Dornheim, M.	Journal of Materials Chemistry A	5	25	12922	12933	2017	8,867	10.1039/c7ta03117c	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
154	Structure Formation of Binary Blends of Amphiphilic Block Copolymers in Solution and in Bulk	Radjabian, M.; Abetz, C.; Fischer, B.; Meyer, A.; Lademann, B.; Abetz, V.	Macromolecular Chemistry and Physics	218	13	1600587		2017	2,5	10.1002/macp.201600587	AEM
155	Lubrication synergy: Mixture of hyaluronan and dipalmitoylphosphatidylcholine (DPPC) vesicles	Raj, A.; Wang, M.; Zander, T.; Wieland, D.C.F.; Liu, X.; An, J.; Garamus, V.M.; Willumeit-Römer, R.; Fielden, M.; Claesson, P.M.; Dėdinaitė, A.	Journal of Colloid and Interface Science	488		225	233	2017	4,233	10.1016/j.jcis.2016.10.091	AEM/MML
156	High temperature deformation of cast ZW11 magnesium alloy with very large grain size	Rao, K.P.; Bagheripoor, M.; Dieringa, H.; Hort, N.	Key Engineering Materials	725 KEM		232	237	2017	-	10.4028/www.scientific.net/KEM.725.232	AEM
157	Optimization of Thermo-Mechanical Processing for Forging of Newly Developed Creep-Resistant Magnesium Alloy ABaX633	Rao, K.P.; Dharmendra, C.; Prasad, Y.V.R.K.; Hort, N.; Dieringa, H.	Metals	7		513	526	2017	1,984	10.3390/met7110513	AEM
158	A Comparative Study on the Microstructure, Mechanical Properties, and Hot Deformation of Magnesium Alloys Containing Zinc, Calcium and Yttrium	Rao, K.P.; Suresh, K.; Dieringa, H.; Hort, N.	Magnesium Technology 2017			449	461	2017	Proceeding	10.1007/978-3-319-52392-7_62	AEM
159	High Temperature Strength and Hot Working Technology for As-Cast Mg–1Zn–1Ca (ZX11) Alloy	Rao, K.P.; Suresh, K.; Prasad, Y.V.R.K.; Dharmendra, C.; Hort, N.; Dieringa, H.	Metals	7		405	421	2017	1,984	10.3390/met7100405	AEM
160	Microstructure and mechanical properties of keyhole repair welds in AA 7075-T651 using refill friction stir spot welding	Reimann, M.; Goebel, J.; dos Santos, J.F.	Materials and Design	132		283	294	2017	4,364	10.1016/j.matdes.2017.07.013	AEM
161	Refilling termination hole in AA 2198–T851 by refill friction stir spot welding	Reimann, M.; Goebel, J.; Gartner, T.M.; dos Santos, J.F.	Journal of Materials Processing Technology	245		157	166	2017	3,147	10.1016/j.jmatprotec.2017.02.025	AEM
162	Effect of Solution Treatment on Precipitation Behaviors, Age Hardening Response and Creep Properties of Elektron21 Alloy Reinforced by AlN Nanoparticles	Saboori, A.; Papovano, E.; Pavese, M.; Dieringa, H.; Badini, C.	Materials	10		1380	1398	2017	2,654	10.3390/ma10121380	AEM
163	Block copolymer membranes from polystyrene-b-poly(solketal methacrylate) (PS-b-PSMA) and amphiphilic polystyrene-b-poly(glyceryl methacrylate) (PS-b-PGMA)	Saleem, S.; Rangou, S.; Abetz, C.; Lademann, B.; Filiz, V.; Abetz, V.	Polymers	9	6	216		2017	3,364	10.3390/polym9060216	AEM
164	A Pathway to Fabricate Hollow Fiber Membranes with Isoporous Inner Surface	Sankhala, K.; Koll, J.; Radjabian, M.; Handge, U.A.; Abetz, V.	Advanced Materials Interfaces	4	7	1600991		2017	4,279	10.1002/admi.201600991	AEM
165	Process optimization and microstructure analysis in refill friction stir spot welding of 3-mm-thick Al-Mg-Si aluminum alloy	Santana, L.M.; Suhuddin, U.F.H.; Ölscher, M.H.; Strohaecker, T.R.; dos Santos, J.F.	International Journal of Advanced Manufacturing Technology			1	8	2017	2,209	10.1007/s00170-017-0432-9	AEM
166	Hysteresis analysis and control of a metal-polymer hybrid soft actuator	Schimmack, M.; Feistauer, E.E.; Amancio-Filho, S.T.; Mercorelli, P.	Energies	10	4	508		2017	2,262	10.3390/en10040508	AEM
167	Accessing colony boundary strengthening of fully lamellar TiAl alloys via micromechanical modeling	Schnabel, J.E.; Bargmann, S.	Materials	10	8	896		2017	2,654	10.3390/ma10080896	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
168	Free-edge stress fields in cylindrically curved symmetric and unsymmetric cross-ply laminates under bending load	Schnabel, J.E.; Yousfi, M.; Mittelstedt, C.	Composite Structures	180		862	875	2017	3,858	10.1016/j.compstruct.2017.08.002	AEM
169	Preparation and characterisation of open-celled foams using polystyrene-b-poly(4-vinylpyridine) and poly(4-methylstyrene)-b-poly(4-vinylpyridine) diblock copolymers	Schulze, M.; Handge, U.A.; Abetz, V.	Polymer (United Kingdom)	108		400	412	2017	3,684	10.1016/j.polymer.2016.12.005	AEM
170	Role of Phase Composition of PEO Coatings on AA2024 for In-Situ LDH Growth	Serdechnova, M.; Mohedano, M.; Bouali, A.C.; Hoeche, D.; Kuznetsov, B.; Karpushenkov, S.; Blawert, C.; Zheludkevich, M.L.	Coatings	7	11	190		2017	2,175	10.3390/coatings7110190	AEM
171	PEO Coatings with Active Protection Based on In-Situ Formed LDH-Nanocontainers	Serdechnova, M.; Mohedano, M.; Kuznetsov, B.; Mendis, C.L.; Starykevich, M.; Karpushenkov, S.; Tedim, J.; Ferreira, M.G.S.; Blawert, C.; Zheludkevich, M.L.	Journal of the Electrochemical Society	164	2	C36	C45	2017	3,259	10.1149/2.0301702jes	AEM
172	Actuation by hydrogen electrosorption in hierarchical nanoporous palladium	Shi, S.; Markmann, J.; Weissmüller, J.	Philosophical Magazine	97	19	1571	1587	2017	1,505	10.1080/14786435.2017.1311428	AEM
173	Digital modelling of the galvanic corrosion behaviour of a self–piercing riveted AZ31 - AA5083 hybrid joint [Digitale Modellierung galvanischer Korrosion an stanzgenieteten AZ31-AA5083 Hybridverbunden]	Silva, E.L.; Höche, D.; Bouali, A.C.; Serdechnova, M.; Sesenes, R.L.; Scholz, C.S.; Zheludkevich, M.L.	Materialwissenschaft und Werkstofftechnik	48	6	529	545	2017	0,524	10.1002/mawe.201600702	AEM
174	Direct Synthesis of Electrowettable Carbon Nanowall–Diamond Hybrid Materials from Sacrificial Ceramic Templates Using HFCVD	Silva, E.L.; Mishra, Y.K.; Fernandes, A.J.S.; Silva, R.F.; Strobel, J.; Kienle, L.; Adelung, R.; Oliveira, F.J.; Zheludkevich, M.L.	Advanced Materials Interfaces	4	10	1700019		2017	4,279	10.1002/admi.201700019	AEM
175	Sintering Behavior and Microstructure Formation of Titanium Aluminide Alloys Processed by Metal Injection Molding	Soyama, J.; Oehring, M.; Ebel, T.; Kainer, K.U.; Pyczak, F.	JOM	69	4	676	682	2017	1,86	10.1007/s11837-016-2252-z	AEM
176	In situ experiment for laser beam welding of Ti alloys using high-energy X-rays	Staron, P., Liu, J., Riekehr, S., Schell, N., Huber, N., Kashaev, N., Müller, M., Schreyer, A.	Materials Science Forum	905		114	119	2017	Proceeding	10.4028/www.scientific.net/MSF.905.114	AEM/MML
177	Effect of the Anodic Titania Layer Thickness on Electrodeposition of Zinc on Ti/TiO2 from Deep Eutectic Solvent	Starykevich, M.; Salak, A.N.; Ivanou, D.K.; Yasakau, K.A.; Andre, P.S.; Ferreira, R.A.S.; Zheludkevich, M.L.; Ferreira, M.G.S.	Journal of the Electrochemical Society	164	2	D88	D94	2017	3,259	10.1149/2.1351702jes	AEM
178	Modification of Porous Titania Templates for Uniform Metal Electrodeposition from Deep Eutectic Solvent	Starykevich, M.; Salak, A.N.; Zheludkevich, M.L.; Ferreira, M.G.S.	Journal of the Electrochemical Society	164	6	D335	D341	2017	3,259	10.1149/2.1481706jes	AEM
179	Surfactant-Free RAFT Emulsion Polymerization of Styrene Using Thermoresponsive macroRAFT Agents: Towards Smart Well-Defined Block Copolymers with High Molecular Weights	Steffen Eggers, Volker Abetz	Polymers	9	12	668		2017	3,364	10.3390/polym9120668	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
180	Texture-based formability prediction for Mg wrought alloys ZE10 and AZ31	Steglich, D., Jeong, Y.	AIP Conference Proceedings	1896				2017	Proceeding	10.1063/1.5007958	AEM
181	3D Microstructural Evolution on Solidifying Mg–5Nd–5Zn Alloy Observed via In Situ Synchrotron Tomography	Subroto, T.; Mendis, C.L.; D`Elia, F.; Szakacs, G.; Fife, J.L.; ; Hort, N.; Kainer, K.U.; Tolnai, D.	Magnesium Technology 2017			605	612	2017	Proceeding	10.1007/978-3-319-52392-7_83	AEM/MML
182	Microstructure evolution in refill friction stir spot weld of a dissimilar Al–Mg alloy to Zn-coated steel	Suhuddin, U.F.H.; Fischer, V.; Kostka, A.; dos Santos, J.F.	Science and Technology of Welding and Joining	22	8	658	665	2017	2,05	10.1080/13621718.2017.1300744	AEM
183	Mechanism of Dynamic Recrystallization and Evolution of Texture in the Hot Working Domains of the Processing Map for Mg-4Al-2Ba-2Ca Alloy	Suresh, K.; Rao, K.P.; Prasad, Y.V.R.K.; Wu, C.-M.; Hort, N.; Dieringa, H.	Metals	7		539	555	2017	1,984	10.3390/met7120539	AEM
184	Application of Adaptive Element-Free Galerkin Method to Simulate Friction Stir Welding of Aluminum	Talebi, H., Froend, M., Klusemann, B.	Procedia Engineering	207		580	585	2017	Conference Paper	10.1016/j.proeng.2017.10.1024	AEM
185	Rheology in shear and elongation and dielectric spectroscopy of polystyrene-block-poly(4-vinylpyridine) diblock copolymers	Tarek Kollmetz, Prokopios Georgopanos, Ulrich A. Handge	Polymer	129		68	82	2017	3,684	10.1016/j.polymer.2017.09.031	AEM
186	Influence of the Composition and Imidization Route on the Chain Packing and Gas Separation Properties of Fluorinated Copolyimides	Tena, A.; Shishatskiy, S.; Meis, D.; Wind, J.; Filiz, V.; Abetz, V.	Macromolecules	50	15	5839	5849	2017	5,835	10.1021/acs.macromol.7b01051	AEM
187	The weld interface for friction spot welded 5052 aluminium alloy	Tier, M.D.; Rosendo, T.S.; Mazzaferro, J.A.; Mazzaferro, C.P.; dos Santos, J.F.; Strohaecker, T.R.	International Journal of Advanced Manufacturing Technology	90	1-4	267	276	2017	2,209	10.1007/s00170-016-9370-1	AEM
188	Effect of the Zn Content on the Compression Behaviour of Mg5Nd(Zn): An In Situ Synchrotron Radiation Diffraction Study	Tolnai, D.; Kaercher, T.; Buzolin, R.; Subroto, T. ; D'Elia, F.; Gavras, S.; Stark, A.; Schell, N.; Hort, N.; Kainer, K.U.	MAGNESIUM TECHNOLOGY 2017, Minerals Metals & Materials Series			675	681	2017	Proceeding	10.1007/978-3-319-52392-7_93	AEM/MML
189	Development of CO2 Selective Poly(Ethylene Oxide)-Based Membranes: From Laboratory to Pilot Plant Scale	Torsten Brinkmann, Jelena Lillepärg, Heiko Notzke, Jan Pohlmann, Sergey Shishatskiy, Jan Wind, Thorsten Wolff	Engineering	3	4	485	493	2017	0,384	10.1016/J.ENG.2017.04.004	AEM
190	Effect of friction spot welding (FSpW) on the surface corrosion behavior of overlapping AA6181-T4/Ti-6Al-4V joints	Vacchi, G.S.; Plaine, A.H.; Silva, R.; Sordi, V.L.; Suhuddin, U.F.H.; Alcântara, N.G.; Kuri, S.E.; Rovere, C.A.D.	Materials and Design	131		127	134	2017	4,364	10.1016/j.matdes.2017.06.005	AEM
191	Ordering and disordering of β/βo-phase in γ-TiAl based alloys investigated by neutron diffraction	Victoria Kononikhina, Andreas Stark, Weimin Gan, Andreas Schreyer, Florian Pyczak	MRS Advances			1	6	2017	Scopus	10.1557/adv.2017.145	AEM/MML
192	Microhardness and in vitro corrosion of heat-treated Mg-Y-Ag biodegradable alloy	Vlček, M.; Lukáč, F.; Kudrnová, H.; Smola, B.; Stulíková, I.; Luczak, M.; Szakács, G.; Hort, N.; Willumeit-Römer, R.	Materials	10	1	55		2017	2,654	10.3390/ma10010055	AEM
193	Effects of Stoichiometry on the H2-Storage Properties of Mg(NH2)2–LiH–LiBH4 Tri-Component Systems	Wang, H.; Cao, H.; Pistidda, C.; Garroni, S.; Wu, G.; Klassen, T.; Dorheim, M.; Chen, P.	Chemistry - An Asian Journal	12	14	1758	1764	2017	4,083	10.1002/asia.201700287	AEM
194	Near Ambient Condition Hydrogen Storage in a Synergized Tricomponent Hydride System	Wang, H.; Wu, G.; Cao, H.; Pistidda, C.; Chaudhary, A.-L.; Garroni, S.; Dornheim, M.; Chen, P.	Advanced Energy Materials	7	13	1602456		2017	16,721	10.1002/aenm.201602456	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
195	Local flow stresses in interpenetrating-phase composites based on nanoporous gold — In situ diffraction	Wang, K.; Hartig, C.; Blankenburg, M.; Müller, M.; Günther, R.; Weissmüller, J.	Scripta Materialia	127		151	155	2017	3,747	10.1016/j.scriptamat.2016.09.026	AEM/MML
196	A nanoporous gold-polypyrrole hybrid nanomaterial for actuation	Wang, K.; Stenner, C.; Weissmüller, J.	Sensors and Actuators, B: Chemical	248		622	629	2017	5,401	10.1016/j.snb.2017.04.025	AEM
197	Influence of alloy composition and thermal history on carbide precipitation in γ-based TiAl alloys	Wang, L.; Lorenz, U.; Münch, M.; Stark, A.; Pyczak, F.	Intermetallics	89		32	39	2017	3,14	10.1016/j.intermet.2017.05.006	AEM/MML
198	Morphology evolution of Ti3AlC carbide precipitates in high Nb containing TiAl alloys	Wang, L.; Zenk, C.; Stark, A.; Felfer, P.; Gabrisch, H.; Göken, M.; Lorenz, U.; Pyczak, F.	Acta Materialia	137		36	44	2017	5,301	10.1016/j.actamat.2017.07.018	AEM/MML
199	Complex solutions under shear and pressure: A rheometer setup for X-ray scattering experiments	Wieland, D.C.F.; Zander, T.; Garamus, V.M.; Krywka, C.; Dedinaite, A.; Claesson, P.; Willumeit-Römer, R.	Journal of Synchrotron Radiation	24	3	646	652	2017	3,011	10.1107/S1600577517002648	AEM/MML
200	Interface elasticity effects in polymer-filled nanoporous metals	Wilmers, J.; McBride, A.; Bargmann, S.	Journal of the Mechanics and Physics of Solids	99		163	177	2017	4,255	10.1016/j.jmps.2016.11.011	AEM
201	New post modification route for styrene butadiene copolymers leading to supramolecular hydrogen bonded networks - Synthesis and thermodynamic analysis of complexation	Wittenberg, E.; Abetz, V.	Polymer (United Kingdom)	121		304	311	2017	3,684	10.1016/j.polymer.2017.06.001	AEM
202	Increased levels of sodium chloride directly increase osteoclastic differentiation and resorption in mice and men	Wu, L.; Luthringer, B.J.C.; Feyerabend, F.; Zhang, Z.; Machens, H.G.; Maeda, M.; Taipaleenmäki, H.; Hesse, E.; Willumeit-Römer, R.; Schilling, A.F.	Osteoporosis International			1	14	2017	3,591	10.1007/s00198-017-4163-4	AEM
203	Influence of Dy in solid solution on the bio-corrosion behaviour of binary Mg-Dy alloys	Yang Lei, Liangong Ma, Yuanding Huang, Frank Feyerabend, Carsten Blawert, Daniel Höche, Regine Willumeit-Römer, Erlin Zhang, Karl Ulrich Kainer, Norbert Hort	Materials Science and Engineering C	75		1351	1358	2017	4,164	http://dx.doi.org/10.1016/j.msec.201	AEM
204	Microstructure and corrosion behavior of Ca/P coatings prepared on magnesium by plasma electrolytic oxidation	Yang, J.; Lu, X.; Blawert, C.; Di, S.; Zheludkevich, M.L.	Surface and Coatings Technology	319		359	369	2017	2,589	10.1016/j.surfcoat.2017.04.001	AEM
205	Influence of Dy in solid solution on the degradation behavior of binary Mg-Dy alloys in cell culture medium	Yang, L.; Ma, L.; Huang, Y.; Feyerabend, F.; Blawert, C.; Höche, D.; Willumeit-Römer, R.; Zhang, E.; Kainer, K.U.; Hort, N.	Materials Science and Engineering C	75		1351	1358	2017	4,164	10.1016/j.msec.2017.03.010	AEM
206	Kelvin microprobe analytics on iron-enriched corroded magnesium surface	Yasakau, K.A.; Höche, D.; Lamaka, S.L.; Ferreira, M.G.S.; Zheludkevich, M.L.	Corrosion	73	5	583	595	2017	1,661	10.5006/2260	AEM
207	Recent research and developments on wrought magnesium alloys	You, S.; Huang, Y.; Kainer, K.U.; Hort, N.	Journal of Magnesium and Alloys	5	3	239	253	2017	Scopus	10.1016/j.jma.2017.09.001	AEM
208	Dual-Mode Nanoporous Copper by Dealloying Al-Cu-Nacl Bulk Alloys and Its High Degradation Efficiency Toward Methyl Orange	Yu, N.; Jiang, L.; Hou, H.; Chen, X.; Li, J.; Geng, H.; Zhao, D.	JOM	69	6	1027	1033	2017	1,86	10.1007/s11837-017-2321-y	AEM
209	Effects of extrusion ratio and annealing treatment on the mechanical properties and microstructure of a Mg–11Gd–4.5Y–1Nd–1.5Zn–0.5Zr (wt%) alloy	Yu, Z.; Huang, Y.; Gan, W.; Zhong, Z.; Hort, N.; Meng, J.	Journal of Materials Science	52	11	6670	6686	2017	2,599	10.1007/s10853-017-0902-3	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
210	Fast corroding, thin magnesium coating displays antibacterial effects and low cytotoxicity	Zaatreh, S.; Haffner, D.; Strauß, M.; Wegner, K.; Warkentin, M.; Lurtz, C.; Zamponi, C.; Mittelmeier, W.; Kreikemeyer, B.; Willumeit-Römer, R.; Quandt, E.; Bader, R.	Biofouling	33	4	294	305	2017	3,08	10.1080/08927014.2017.1303832	AEM
211	Quantitative characterization of degradation processes in situ by means of a bioreactor coupled flow chamber under physiological conditions using time-lapse SRμCT	Zeller-Plumhoff Berit, Heike Helmholz, Frank Feyerabend, Thomas Dose, Fabian Wilde, Alexander Hipp, Felix Beckmann, Regine Willumeit-Römer, Jörg U. Hammel	Materials and Corrosion	2017		1	9	2017	1,26	http://dx.doi.org/10.1002/maco.2017	AEM/MML
212	Effects of doping FeCl3 on hydrogen storage properties of Li-N-H system	Zhang, W.; Wang, H.; Cao, H.; He, T.; Guo, J.; Wu, G.; Chen, P.	Progress in Natural Science: Materials International	27	1	139	143	2017	2,038	10.1016/j.pnsc.2016.12.017	AEM
213	A study of degradation resistance and cytocompatibility of super-hydrophobic coating on magnesium	Zhang, Y.; Feyerabend, F.; Tang, S.; Hu, J.; Lu, X.; Blawert, C.; Lin, T.	Materials Science and Engineering C	78		405	412	2017	4,164	10.1016/j.msec.2017.04.057	AEM
214	Folate receptor targeted bufalin/β-cyclodextrin supramolecular inclusion complex for enhanced solubility and anti-tumor efficiency of bufalin	Zou, A.; Zhao, X.; Handge, U.A.; Garamus, V.M.; Willumeit-Römer, R.; Yin, P.	Materials Science and Engineering C	78		609	618	2017	4,164	10.1016/j.msec.2017.04.094	AEM/MML

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
1	Sorption and Spatial Distribution of Protein Globules in Charged Hydrogel Particles	Adroher-Benítez, I., A. Moncho-Jordá, J. Dzubiella	Langmuir	33		4567	4577	2017	3,833	10.1021/acs.langmuir.7b00356	BIFTM
2	Electrospun PCL-PIBMD/SF blend scaffolds with plasmid complexes for endothelial cell proliferation	Bai, L.C.; Li, Q.; Duo, X.H.; Hao, X.F.; Zhang, W.C.; Shi, C.C.; Guo, J.T.; Ren, X.K.; Feng, Y.K.	RSC ADVANCES	7	63	39452	39464	2017	3,108	10.1039/c7ra06253b	BIFTM
3	Engineering of cell-laden gelatin-based microcapsules for cell delivery and immobilization in regenerative therapies	Blocki A., F. Löper, N. Chirico, A. T. Neffe, F. Jung, C. Stamm, A. Lendlein	Clinical Hemorheology and Microcirculation	67	3	251	259	2017	1,679	10.3233/CH-179206	BIFTM
4	Comment on: "Hemocompatibility of Superhemophobic Titania Surfaces"	Braune, S.; Latour, R.A.; Lendlein, A.; Jung, F.	Advanced Healthcare Materials	6	17	1700294		2017	5,11	10.1002/adhm.201700294	BIFTM
5	Evaluation of platelet adhesion and activation on polymers: Round-robin study to assess inter-center variability	Braune, S.; Sperling, C.; Maitz, M.F.; Steinseifer, U.; Clauser, J.; Hiebl, B.; Krajewski, S.; Wendel, H.P.; Jung, F.	Colloids and Surfaces B: Biointerfaces	158		416	422	2017	3,887	10.1016/j.colsurfb.2017.06.053	BIFTM
6	Omnidirectional Shape Memory Effect via Lyophilization of PEG Hydrogels	Chen, D.; Xia, X.; Wong, T.W.; Bai, H.; Behl, M.; Zhao, Q.; Lendlein, A.; Xie, T.	Macromolecular Rapid Communications	38	7	1600746		2017	4,265	10.1002/marc.201600746	BIFTM
7	A Water-Processable and Bioactive Multivalent Graphene Nanoink for Highly Flexible Bioelectronic Films and Nanofibers	Cheng C., Zhang J., Li S., Xia Y., Nie C., Shi Z., Cuellar-Camacho J.L., Ma N., Haag R.	Advanced Materials			1705452		2017	19,791	10.1002/adma.201705452	BIFTM
8	Defined pH-sensitive nanogels as gene delivery platform for siRNA mediated in vitro gene silencing	Dimde M., Neumann F., Reisbeck F., Ehrmann S., Cuellar-Camacho J.L., Steinhilber D., Ma N., Haag R.	Biomater Sci	5		2328	2336	2017	4,21	10.1039/c7bm00729a	BIFTM
9	Core/Shell Gene Carriers with Different Lengths of PLGA Chains to Transfect Endothelial Cells	Duo X., Li Q., Wang J., Lv J., Hao X., Feng Y., Ren X., Shi C., Zhang W.	Langmuir	33	46	13315	13325	2017	3,833	10.1021/acs.langmuir.7b02934	BIFTM
10	CAGW Peptide Modified Biodegradable Cationic Copolymer for Effective Gene Delivery	Duo, X.H.; Wang, J.; Li, Q.; Neve, A.L.; Akpanyung, M.; Nejjari, A.; Ali, Z.S.S.; Feng, Y.K.; Zhang, W.C.; Shi, C.C.	Polymers	9	5	158		2017	3,364	10.3390/polym9050158	BIFTM
11	Regenerative Medicine/Cardiac Cell Therapy: Pluripotent Stem Cells	Duran A.G., Reidell O., Stachelscheid H., Klose K., Gossen M., Falk V., Röll W., Stamm C.	Thorac Cardiovasc Surg	66	1	53	62	2018	1,424	10.1055/s-0037-1608761	BIFTM
12	Non-continuously responding polymeric actuators	Farhan M., T. Rudolph, U. Nöchel, W. Yan, K. Kratz, A. Lendlein	ACS Appl. Mater & Interf.	9	39	33559	33564	2017	7,504	10.1021/acsami.7b11316	BIFTM
13	Biocompatibility and characterization of polyglycerol-based thermoresponsive nanogels designed as novel drug-delivery systems and their intracellular localization in keratinocytes	Gerecke, C.; Edlich, A.; Giulbudagian, M.; Schumacher, F.; Zhang, N.; Said, A.; Yealland, G.; Lohan, S.B.; Neumann, F.; Meinke, M.C.; Ma, N.; Calderón, M.; Hedtrich, S.; Schäfer-Korting, M.; Kleuser, B.	Nanotoxicology	11	2	267	277	2017	6,428	10.1080/17435390.2017.1292371	BIFTM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
14	Polyglycerol-opioid conjugate produces analgesia devoid of side effects	González-Rodríguez S., M.A. Quadir, S. Gupta, K.A. Walker, X. Zhang, V. Spahn, D. Labuz, A. Rodriguez-Gaztelumendi, M. Schmelz, J. Joseph, M.K. Parr, H. Machelska, R. Haag, C. Stein	eLife	6		e27981		2017	7,725	10.7554/eLife.27081	BIFTM
15	Biotransformation of 2,4-toluenediamine in human skin and reconstructed tissues	Grohmann, L.; Becker, D.; Rademann, J.; Ma, N.; Schäfer-Korting, M.; Weindl, G.	Archives of Toxicology	91	10	3307	3316	2017	5,901	10.1007/s00204-017-1954-5	BIFTM
16	In vivo biocompatibility assessment of poly (ether imide) electrospun scaffolds	Haase, T.; Krost, A.; Sauter, T.; Kratz, K.; Peter, J.; Kamann, S.; Jung, F.; Lendlein, A.; Zohlnhöfer, D.; Rüder, C.	Journal of Tissue Engineering and Regenerative Medicine	11	4	1034	1044	2017	3,989	10.1002/term.2002	BIFTM
17	Optimisation of CRISPR/Cas9-mediated knock-in of large inserts into the AAVS1 safe harbor locus,	Hennig A.F., Rössler U., Corrado A., Werner D.L., Stachelscheid H., Gossen M., Kornak U.	Human Gene Therapy	28	12	A60	A60	2017	4,187	10.1089/hum.2017.29055.abstracts	BIFTM
18	Editorial - Developments in the application of high resolution ultrasound in clinical diagnostics	Jung E.-M., F. Jung, H.-X. Xu	Clinical Hemorheology and Microcirculation	66	4	273	275	2017	1,679	10.3233/CH-179100	BIFTM
19	A.L. Copley Best Paper Prize 2016	Jung F., P. Connes, C. Lehmann	Clinical Hemorheology and Microcirculation	66	3	185	186	2017	1,679	10.3233/CH-179000	BIFTM
20	Editorial: 36th Conference oft he German Society for Clinical Microcirculation and Hemorheology	Jünger M., A. Krüger-Genge, F. Jung	Clinical Hemorheology and Microcirculation	67	3	209	209	2017	1,679	10.3233/CH-179200	BIFTM
21	Chapter 12 Responsive Nanogels for Anti-cancer Therapy, in: Nanogels for Biomedical Applications	Kar M., Fechner L., Nagel G., Glitscher E., Noe Rimondino G., Calderon M.	The Royal Society of Chemistry			210	260	2018	Scopus	10.1039/9781788010481-00210	BIFTM
22	Effects of Tacrolimus or Sirolimus on the adhesion of vascular wall cells: controlled in-vitro comparison study	Krüger-Genge A., B. Hiebl, R.P Franke, A. Lendlein, F. Jung	Clinical Hemorheology and Microcirculation	67	3	309	318	2017	1,679	10.3233/CH-179211	BIFTM
23	Sequence Control as a Powerful Tool for Improving the Selectivity of Antimicrobial Polymers	Kuroki A., Sangwan P., Qu Y., Peltier R., Sanchez-Cano, C. , Moat J., Dowson, C. G., Williams, E. G. L., Locock,K. E. S. , Hartlieb, M., Perrier	ACS Applied Materials & Interfaces	9	46	40117	40126	2017	7,504	10.1021/acsami.7b14996	BIFTM
24	Effect of iodinated contrast media on renal perfusion: A randomized comparison study in pigs using quantitative contrast-enhanced ultrasound (CEUS)	Lamby P., Jung F., Graf S., Schellenberg L., Falter J., Platz-da-Silva N., Schreml S., Prantl L., Franke R. P., Jung E.M.	Sci Rep	7	1	13125		2017	4,259	10.1038/s41598-017-13253-y	BIFTM
25	Influence of ultrasound microbubbles on kidney oxygen tension	Lamby P., L. Prantl, A. Krüger-Genge, R.P. Franke, E.M. Jung, F. Jung	Clinical Hemorheology and Microcirculation	67	3	211	214	2017	1,679	10.3233/CH-179201	BIFTM
26	Construction of Functional Coatings with Durable and Broad-Spectrum Antibacterial Potential Based on Mussel-Inspired Dendritic Polyglycerol and in Situ-Formed Copper Nanoparticles,	Li M., Gao L., Schlaich C., Zhang J., Donskyi I.S., Yu G., Li W., Tu Z., Rolff J., Schwerdtle T., Haag R., Ma N.	ACS Appl Mater Interfaces	9		35411	35418	2017	7,504	10.1021/acsami.7b10541	BIFTM
27	Integrin β1 activation by micro-scale curvature promotes pro-angiogenic secretion of human mesenchymal stem cells	Li Z., W. Wang, X. Xu, K. Kratz, J. Zou, L. Lysyakova, M. Heuchel, A. Kurtz, M. Gossen, N. Ma, A. Lendlein	Journal of Materials Chemistry B	5		7415	7425	2017	4,543	10.1039/C7TB01232B	BIFTM
28	Modulation of the mesenchymal stem cell migration capacity via preconditioning with topographic microstructure	Li Z., X. Xu, W. Wang, K. Kratz, X. Sun, J. Zou, Z. Deng, F. Jung, M. Gossen, N. Ma, A. Lendlein	Clinical Hemorheology and Microcirculation	67	3	267	278	2017	1,679	10.3233/CH-179208	BIFTM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
29	Mixed micelles obtained by co-assembling comb-like and grafting copolymers as gene carriers for efficient gene delivery and expression in endothelial cells	Li, Q.; Hao, X.F.; Lv, J.; Ren, X.K.; Zhang, K.Y.; Ullah, I.; Feng, Y.K.; Shi, C.C.; Zhang, W.C.	Journal of Materials Chemistry B	5	8	1673	1687	2017	4,543	10.1039/c6tb02212j	BIFTM
30	Two-Level Shape Changes of Polymeric Microcuboids Prepared from Crystallizable Copolymer Networks	Liu, Y.; Razzaq, M.Y.; Rudolph, T.; Fang, L.; Kratz, K.; Lendlein, A.	Macromolecules	50	6	2518	2527	2017	5,835	10.1021/acs.macromol.6b02237	BIFTM
31	Shape-Memory Hydrogels: Evolution of Structural Principles To Enable Shape Switching of Hydrophilic Polymer Networks	Löwenberg, C.; Balk, M.; Wischke, C.; Behl, M.; Lendlein, A.	Accounts of Chemical Research	50	4	723	732	2017	20,268	10.1021/acs.accounts.6b00584	BIFTM
32	Star-shaped copolymer grafted PEI and REDV as a gene carrier to improve migration of endothelial cells	Lv, J.; Hao, X.F.; Li, Q.; Akpanyung, M.; Nejjari, A.; Neve, A.L.; Ren, X.K.; Feng, Y.K.; Shi, C.C.; Zhang, W.C.	BIOMATERIALS SCIENCE	5	3	511	522	2017	4,21	10.1039/c6bm00856a	BIFTM
33	High-strain shape-memory properties of poly(carbonate-urea-urethane)s based on aliphatic carbonates and L-Lysine Diisocyanate	Mazurek-Budzynska M., M. Y. Razzaq, G. Rokicki, M. Behl, A. Lendlein	MRS Advances	2	47	2529	2536	2017	Proceeding	10.1557/adv.2017.471	BIFTM
34	CP39, CP75 and CP91 are major structural components of the Dictyostelium centrosome's core structure	Meyer I., T. Peter, P. Batsios, O. Kuhnert, A. Krüger-Genge, C. Camurça, R. Gräf	Eur J Cell Biol	96		119	130	2017	3,712		BIFTM
35	Interactions of organic nanoparticles with proteins in physiological conditions	Miceli E., Kar M., Calderón M.	J Mater Chem B	5	23	4393	4405	2017	4,543	10.1039/C7TB00146K	BIFTM
36	Overcoming drug resistance with on-demand charged thermoresponsive dendritic nanogels	Molina M., S. Wedepohl, E. Miceli, M. Calderón	Nanomedicine-UK	12	2	117	129	2017	4,727	10.2217/nnm-2016-0308	BIFTM
37	Reference Range and Variability of Laser-Doppler-Fluxmetry	Mrowietz C., R.P. Franke, G. Pindur, U. Wolf, F. Jung	Clinical Hemorheology and Microcirculation	67	3	347	353	2017	1,679	10.3233/CH-179215	BIFTM
38	Nanocarriers: architecture, transport, and topical application of drugs for therapeutic use	Naolou T., E. Rühl, A. Lendlein	Europ J Pharm Biopharm	116		1	3	2017	4,159	10.1016/j.ejpb.2017.03.004	BIFTM
39	Protein Corona Formation on Colloidal Polymeric Nanoparticles and Polymeric Nanogels: Impact on Cellular Uptake, Toxicity, Immunogenicity, and Drug Release Properties	Obst K., G. Yealland, B. Balzus, E. Miceli, M. Dimde, C. Weise, M. Eravci, R. Bodmeier, R. Haag, M. Calderón, N. Charbaji, S. Hedtrich	Biomacromolecules	18	6	1762	1771	2017	5,246	10.1021/acs.biomac.7b00158	BIFTM
40	Synthesis and characterization of multiblock poly(ester-amide-urethane)s	Peng X., M. Behl, P. Zhang, M. Mazurek-Budzynska, Y. Feng, A. Lendlein	MRS Advances	2	47	2551	2559	2017	Proceeding	10.1557/adv.2017.486	BIFTM
41	Site-specific chromosomal gene insertion: Flp recombinase versus Cas9 nuclease	Phan Q. V., Contzen J., Seemann P., Gossen M.	Sci Reports	7		17771		2018	4,259	10.1038/s41598-017-17651-0	BIFTM
42	Dendritic Core-Multishell Nanocarriers in Murine Models of Healthy and Atopic Skin	Radbruch, M.; Pischon, H.; Ostrowski, A.; Volz, P.; Brodwolf, R.; Neumann, F.; Unbehauen, M.; Kleuser, B.; Haag, R.; Ma, N.; Alexiev, U.; Mundhenk, L.; Gruber, A.D.	Nanoscale Research Letters	12	1	64		2017	2,833	10.1186/s11671-017-1835-0	BIFTM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
43	The influence of transparent substrates prepared from different amorphous polymers on the activation of primary human B cells	Roch T., S. Hahne, K. Kratz, N. Ma, A. Lendlein	Biotechnology Journal	12	12	1700334		2017	3,649	10.1002/biot.201700334	BIFTM
44	Osteoclasts differentiated from iPS cells as a test system for gene therapeutic approaches for CLCN7-related autosomal recessive osteopetrosis	Rössler U., Hennig A.F., Stachelscheid H., Gossen M., Izsvák Z., Kornak U.	Human Gene Therapy	28	12	A50	A51	2017	4,187	10.1089/hum.2017.29055.abstracts	BIFTM
45	Interaction of human serum albumin with uremic toxins: A thermodynamic study	S. Yu, M. Schuchardt, M. Tölle, M. Van Der Giet, W. Zidek, J. Dzubiella, M. Ballauff	RSC Advances	7	45	27913	27922	2017	3,108	10.1039/c7ra02838e	BIFTM
46	Direct quantification of dual protein adsorption dynamics in three dimensional systems in presence of cells	Sarem M., D. Vonwil, S. Lüdeke, V.P. Shastri	Acta Biomaterialia	57		285	292	2017	6,319	10.1016/j.actbio.2017.05.021	BIFTM
47	Disordered Conformation with Low Pii Helix in Phosphoproteins Orchestrates Biomimetic Apatite Formation	Sarem M., S. Lüdeke, R. Thomann, P. Salavei, Z. Zou, W. Habraken, A. Masic, V.P. Shastri	Advanced Materials	29	35	1701629		2017	19,791	10.1002/adma.201701629	BIFTM
48	Mussel-Inspired Polyglycerol Coatings with Controlled Wettability: From Superhydrophilic to Superhydrophobic Surface Coatings	Schlaich C., Wei Q., Haag R.	Langmuir	33	38	9508	9520	2017	3,833	10.1021/acs.langmuir.7b01291	BIFTM
49	Evaluating polymeric biomaterial-environment interfaces by Langmuir monolayer techniques	Schöne A.-C., T. Roch, B. Schulz, A. Lendlein	J R Soc Interface	14				2017	3,579	10.1098/rsif.2016.1028	BIFTM
50	Targeting delta opioid receptors for pain treatment: drugs in phase I and II clinical development	Spahn V., C. Stein	Expert Opin Inv Drug	26	2	155	160	2017	4,03	10.1080/13543784.2017.1275562	BIFTM
51	Age dependent differences in the kinetics of γδ T cells after influenza vaccination	Stervbo, U.; Pohlmann, D.; Baron, U.; Bozzetti, C.; Jürchott, K.; Mälzer, J.N.; Nienen, M.; Olek, S.; Roch, T.; Schulz, A.R.; Warth, S.; Neumann, A.; Thiel, A.; Grützkau, A.; Babel, N.	PLoS ONE	12	7	e0181161		2017	2,806	10.1371/journal.pone.0181161	BIFTM
52	Bioreducible, hydrolytically degradable and targeting polymers for gene delivery	Ullah I., K. Muhammad, M. Akpanyung, A. Nejjari, A.L. Neve, J. Guo, Y. Feng, C. Shi	Journal of Materials Chemistry B	5	18	3253	3276	2017	4,543	10.1039/c7tb00275k	BIFTM
53	Polydepsipeptide Block Stabilized Polyplexes For Efficient Transfection of Primary Human Cells	Wang W., Naolou T., Ma N., Deng Z., Xu X., Mansfeld U., Wischke C., Gossen M., Neffe, A.T. , Lendlein A.,	Biomacromolecules	18	11	3819	3833	2017	5,246	10.1021/acs.biomac.7b01034	BIFTM
54	Folate receptor mediated genetic modification of human mesenchymal stem cells via folic acid-polyethylenimine-grafted poly(N-3-hydroxypropyl)aspartamide	Wang W., W. Li, J. Wang, Q. Hu, M. Balk, K. Bieback, C. Stamm, F. Jung, G. Tang, A. Lendlein, N. Ma	Clinical Hemorheology and Microcirculation	67	3	279	295	2017	1,679	10.3233/CH-179209	BIFTM
55	Functional nanoparticles and their interactions with mesenchymal stem cells	Wang W., Z. Deng, X. Xu, Z. Li, F. Jung, N. Ma, A. Lendlein	Curr Pharm Design	23	26	3814	3832	2017	2,611	10.2174/1381612823666170622110654	BIFTM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
56	Intended and Unintended Targeting of Polymeric Nanocarriers: The Case of Modified Poly(glycerol adipate) Nanoparticles	Weiss V. M., Lucas H., Müller T., Chytil P., Etrych T., Naolou T., Kressler J., Mäder K.	Macromol Bioscience	18	1	1700240		2018	3,238	10.1002/mabi.201700240	BIFTM
57	Charged Dendrimers Revisited: Effective Charge and Surface Potential of Dendritic Polyglycerol Sulfate	Xu X., Q. Ran, R. Haag, M. Ballauff, J. Dzubiella	Macromolecules	50	12	4759	4769	2017	5,835	10.1021/acs.macromol.7b00742	BIFTM
58	Microwell geometry Modulates Interleukin-6 Secretion in Human Mesenchymal Stem Cells	Xu X., W. Wang, Z. Li, K. Kratz, N. Ma, A. Lendlein	MRS Advances	2	47	2561	2570	2017	Proceeding	10.1557/adv.2017.487	BIFTM
59	Design and development of polysaccharide hemostatic materials and their hemostatic mechanism	Yang X., Liu W., Li N., Wang M., Liang B., Ullah I., Luis Neve A., Feng Y., Chen H., Shi C.	Biomaterials Science	12	5	2357	2368	2017	4,21	10.1039/C7BM00554G	BIFTM
60	CAGW Peptide- and PEG-Modified Gene Carrier for Selective Gene Delivery and Promotion of Angiogenesis in HUVECs in Vivo	Yang, J.; Hao, X.F.; Li, Q.; Akpanyung, M.; Nejjari, A.; Neve, A.L.; Ren, X.K.; Guo, J.T.; Feng, Y.K.; Shi, C.C.; Zhang, W.C.	ACS Applied Materials and Interfaces	9	5	4485	4497	2017	7,504	10.1021/acsami.6b14769	BIFTM
61	Interaction of Charged Patchy Protein Models with Like-Charged Polyelectrolyte Brushes	Yigi C., M. Kanduč, M. Ballauff, J. Dzubiella	Langmuir	33		417	427	2017	3,833	10.1021/acs.langmuir.6b03797	BIFTM
62	pH-sensitivity and Conformation Change of the N-terminal Methacrylated Peptide VK20	You Z., M. Behl, C. Löwenberg, A. Lendlein	MRS Advances	2	47	2571	2579	2017	Proceeding	10.1557/adv.2017.491	BIFTM
63	Bioinspired Universal Monolayer Coatings by Combining Concepts from Blood Protein Adsorption and Mussel Adhesion	Yu L., C. Cheng, Q. Ran, C. Schlaich, P.-L. M. Noeske, W. Li, Q. Wei, R. Haag	ACS Applied Materrials and Interfaces	9		6624	6633	2017	7,504	10.1021/acsami.6b15834	BIFTM
64	High-Antifouling Polymer Brush Coatings on Nonpolar Surfaces via Adsorption-Cross-Linking Strategy	Yu L., Hou Y., Cheng C., Schlaich C., Noeske P.-L.M., Wei Q., Haag R.	ACS Applied Materials & Interfaces	9	51	44281	44292	2017	7,504	10.1021/acsami.7b13515	BIFTM
65	Reversible modulation of elasticity in fluoroazobenzene-containing hydrogels using green and blue light	Zhao F., Bonasera A., Nöchel U., Behl M., Bléger D.,	Macromol Rapid Comm	39		1700527		2018	4,265	10.1002/marc.201700527	BIFTM
66	Multi-targeting peptides for gene carriers with high transfection efficiency	Zhao J., Li Q., Hao X., Ren X., Guo J., Feng Y., Shi C.	J Mater Chem B	5	40	8035	8051	2017	4,543	10.1039/C7TB02012K	BIFTM
67	Adipogenic differentiation of human adipose derived mesenchymal stem cells in 3D architectured gelatin based hydrogels (ArcGel)	Zou J., Weiwei Wang, Axel T. Neffe, Xun Xu, Zhengdong Li, Zijun Deng, Xianlei Sun, Nan Ma, Andreas Lendlein	Clinical Hemorheology and Microcirculation	67	3	297	307	2017	1,679	10.3233/CH-179210	BIFTM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
1	Integrated control system environment for high-throughput tomography	Khokhriakov, I., Lottermoser, L., Beckmann, F.	Proceedings of SPIE - Developments in X-Ray Tomog	10391		103911H		2017	Scopus	10.1117/12.2287221	MML
2	Structural analysis of nanoparticulate carriers for encapsulation of macromolecular drugs	Angelov, B.; Garamus, V.M.; Drechsler, M.; Angelova, A.	Journal of Molecular Liquids	235		83	89	2017	3,648	10.1016/j.molliq.2016.11.064	MML
3	Advances in structural design of lipid-based nanoparticle carriers for delivery of macromolecular drugs, phytochemicals and anti-tumor agents	Angelova, A.; Garamus, V.M.; Angelov, B.; Tian, Z.; Li, Y.; Zou, A.	Advances in Colloid and Interface Science	249		331	345	2017	7,223	10.1016/j.cis.2017.04.006	MML
4	Cephalic anatomy and three-dimensional reconstruction of the head of Catops ventricosus (Weise, 1877) (Coleoptera: Leiodidae: Cholevinae)	Antunes-Carvalho, C.; Yavorskaya, M.; Gnaspini, P.; Ribera, I.; Hammel, J.U.; Beutel, R.G.	Organisms Diversity and Evolution	17	1	199	212	2017	2,313	10.1007/s13127-016-0305-3	MML
5	The effect of solution pH on the structural stability of magnetoferritin	Balejčíková, L.; Garamus, V.M.; Avdeev, M.V.; Petrenko, V.I.; Almásy, L.; Kopčanský, P.	Colloids and Surfaces B: Biointerfaces	156		375	381	2017	3,887	10.1016/j.colsurfb.2017.05.036	MML
6	Small-Angle Scattering on Magnetoferritin Nanoparticles	Balejčíková, L.; Petrenko, V.I.; Avdeev, M.V.; Garamus, V.M.; Almásy, L.; Kopčanský, P.	Journal of Physics: Conference Series	848	1	12011		2017	-	10.1088/1742-6596/848/1/012011	MML
7	Inducing stable α + β microstructures during selective laser melting of Ti-6Al-4V using intensified intrinsic heat treatments	Barriobero-Vila, P.; Gussone, J.; Haubrich, J.; Sandlöbes, S.; Da Silva, J.C.; Cloetens, P.; Schell, N.; Requena, G.	Materials	10	3	268		2017	2,654	10.3390/ma10030268	MML
8	Deformation characteristics of the intermetallic alloy 60NiTi	Benafan, O.; Garg, A.; Noebe, R.D.; Skorpenske, H.D.; An, K.; Schell, N.	Intermetallics	82		40	52	2017	3,14	10.1016/j.intermet.2016.11.003	MML
9	Interactions between shape-persistent macromolecules as probed by AFM	Blass, J.; Brunke, J.; Emmerich, F.; Przybylski, C.; Garamus, V.M.; Feoktystov, A.; Bennewitz, R.; Wenz, G.; Albrecht, M.	Beilstein Journal of Organic Chemistry	13		938	951	2017	2,337	10.3762/bjoc.13.95	MML
10	Hot rectangular extrusion of six Mg-alloys via neutron diffractionr	Brokmeier, H.-G.	Advanced Engineering Materials			1700234		2017	2,319	10.1002/adem.201700234	MML
11	Transition and Alkali Metal Complex Ternary Amides for Ammonia Synthesis and Decomposition	Cao, H.; Guo, J.; Chang, F.; Pistidda, C.; Zhou, W.; Zhang, X.; Santoru, A.; Wu, H.; Schell, N.; Niewa, R.; Chen, P.; Klassen, T.; Dornheim, M.	Chemistry - A European Journal	23	41	9766	9771	2017	5,317	10.1002/chem.201702728	AEM/MML
12	Interface Characterization of the Mg/Al Laminated Composite Fabricated by Accumulative Roll Bonding at Ambient Temperature	Chang, H.; Zheng, M.; Brokmeier, H.G.; Gan, W.	Jinshu Xuebao/Acta Metallurgica Sinica	53	2	220	226	2017	0,584	10.11900/0412.1961.2016.00168	MML
13	Effects of decomposition route and microstructure on h-AlN formation rate in TiCrAlN alloys	Chen, Y.H.; Rogström, L.; Ostach, D.; Ghafoor, N.; Johansson-Jõesaar, M.P.; Schell, N.; Birch, J.; Odén, M.	Journal of Alloys and Compounds	691		1024	1032	2017	3,133	10.1016/j.jallcom.2016.08.299	MML
14	Thermal and mechanical stability of wurtzite-ZrAlN/cubic-TiN and wurtzite-ZrAlN/cubic-ZrN multilayers	Chen, Y.H.; Rogström, L.; Roa, J.J.; Zhu, J.Q.; Schramm, I.C.; Johnson, L.J.S.; Schell, N.; Mücklich, F.; Anglada, M.J.; Odén, M.	Surface and Coatings Technology	324		328	337	2017	2,589	10.1016/j.surfcoat.2017.05.055	MML
15	XRD and EBSD analysis of anisotropic microstructure development in cold rolled F138 stainless steel	De Vincentis, N.S.; Avalos, M.C.; Benatti, E.A.; Kliauga, A.; Brokmeier, H.G.; Bolmaro, R.E.	Materials Characterization	123		137	152	2017	2,714	10.1016/j.matchar.2016.11.018	MML
16	Strain path dependence of anisotropic microstructure evolution on low Stacking Fault Energy F138 steel	De Vincentis, N.S.; Avalos, M.C.; Kliauga, A.; Brokmeier, H.G.; Bolmaro, R.E.	Materials Science and Engineering A	698		1	11	2017	3,094	10.1016/j.msea.2017.05.033	MML

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
17	Ion irradiation effects on a magnetic Si/Ni/Si trilayer and lateral magnetic–nonmagnetic multistrip patterning by focused ion beam	Dev, B.N.; Banu, N.; Fassbender, J.; Grenzer, J.; Schell, N.; Bischoff, L.; Groetzschel, R.; McCord, J.	Indian Journal of Physics	91	10	1167	1172	2017	0,988	10.1007/s12648-017-1025-z	MML
18	Monitoring microstructural evolution in-situ during cyclic deformation by high resolution reciprocal space mapping	Diederichs, A.M.; Thiel, F.; Fischer, T.; Lienert, U.; Pantleon, W.	Journal of Physics: Conference Series	843	1	12031		2017	-	10.1088/1742-6596/843/1/012031	MML
19	Aggregation behaviour of a single-chain, phenylene-modified bolalipid and its miscibility with classical phospholipids	Drescher, S.; Garamus, V.M.; Garvey, C.J.; Meister, A.; Blume, A.	Beilstein Journal of Organic Chemistry	13		995	1007	2017	2,337	10.3762/bjoc.13.99	MML
20	A simple setup for episcopic microtomy and a digital image processing workflow to acquire high-quality volume data and 3D surface models of small vertebrates	Engelkes, K., Friedrich, F.,Hammel, J.U.,Haas, A.	Zoomorphology	online first				2017	1,038	10.1007/s00435-017-0386-3	MML
21	Design and control of microstructure and texture by thermomechanical processing of a multi-phase TiAl alloy	Erdely, P.; Staron, P.; Maawad, E.; Schell, N.; Klose, J.; Clemens, H.; Mayer, S.	Materials and Design	131		286	296	2017	4,364	10.1016/j.matdes.2017.06.030	MML
22	Effect of hot rolling and primary annealing on the microstructure and texture of a β-stabilised γ-TiAl based alloy	Erdely, P.; Staron, P.; Maawad, E.; Schell, N.; Klose, J.; Mayer, S.; Clemens, H.	Acta Materialia	126		145	153	2017	5,301	10.1016/j.actamat.2016.12.056	MML
23	The origin of striation in the metastable β phase of titanium alloys observed by transmission electron microscopy	Fan, J.; Li, J.; Zhang, Y.; Kou, H.; Ghanbaja, J.; Gan, W.; Germain, L.; Esling, C.	Journal of Applied Crystallography	50	3	795	804	2017	2,495	10.1107/S1600576717004150	MML
24	Effect of solution heat treatment on microstructure and damage accumulation in cast Al-Cu alloys	Fernández, Gutiérrez, R.; Sket, F.; Maire, E.; Wilde, F.; Boller, E.; Requena, G.	Journal of Alloys and Compounds	697		341	352	2017	3,133	10.1016/j.jallcom.2016.11.280	MML
25	MLZ Conference: Neutrons for Energy	Friese, K.; Holderer, O.; Senyshyn, A.; Gilles, R.; Müller, M.	Neutron News	28	1	4	5	2017	-	10.1080/10448632.2016.1265315	MML
26	Microstructure and kinetics of intermetallic phase growth of three-layered A1050/AZ31/A1050 clads prepared by explosive welding combined with subsequent annealing	Fronczek, D.M.; Chulist, R.; Litynska-Dobrzynska, L.; Kac, S.; Schell, N.; Kania, Z.; Szulc, Z.; Wojewoda-Budka, J.	Materials and Design	130		120	130	2017	4,364	10.1016/j.matdes.2017.05.051	MML
27	Microstructural and Phase Composition Differences Across the Interfaces in Al/Ti/Al Explosively Welded Clads	Fronczek, D.M.; Chulist, R.; Litynska-Dobrzynska, L.; Lopez, G.A.; Wierzbicka-Miernik, A.; Schell, N.; Szulc, Z.; Wojewoda-Budka, J.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	48	9	4154	4165	2017	1,874	10.1007/s11661-017-4169-8	MML
28	Microstructure and residual stress in rotary friction welded dissimilar metals of AA7020 aluminium alloy with 316L steel	Gan, W.; Hofmann, M.; Ventzke, V.; Randau, C.; Huang, Y.; Kriele, A.; Brokmeier, H.-G.; Mueller, M.	Materials Science Forum	879		572	577	2017	-	10.4028/www.scientific.net/MSF.879.572	AEM/MML
29	In situ tensile texture analysis of a new Mg-RE alloy	Gan, W.M.; Huang, Y.D.; Xu, Y.L.; Hofmann, M.; Kainer, K.U.; Hort, N.	Materials Science Forum	879		779	783	2017	-	10.4028/www.scientific.net/MSF.879.779	AEM/MML
30	Wetting of Sn-Zn-Ga and Sn-Zn-Na alloys on Al and Ni substrate	Gancarz, T., Bobrowski, P., Pawlak, S., Schell, N., Chulist, R., Janik, K.	Open access Journal of Electronic Materials	47	1	49	60	2017	1,579	10.1007/s11664-017-5791-3	MML
31	Evolution of twinning in extruded AZ31 alloy with bimodal grain structure	Garcés, G.; Oñorbe, E.; Gan, W.; Máthis, K.; Tolnai, D.; Horváth, K.; Pérez, P.; Adeva, P.	Materials Characterization	126		116	124	2017	2,714	10.1016/j.matchar.2017.02.017	AEM/MML

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
32	Effect of Extrusion Temperature on the Plastic Deformation of an Mg-Y-Zn Alloy Containing LPSO Phase Using In Situ Neutron Diffraction	Garces, G.; Perez, P.; Cabeza, S.; Kabra, S.; Gan, W.; Adeva, P.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science			1	12	2017	1,874	10.1007/s11661-017-4284-6	MML
33	Interaction of magnetic nanoparticles with lysozyme amyloid fibrils	Gdovinová, V.; Tomašovičová, N.; Batko, I.; Batková, M.; Balejčíková, L.; Garamus, V.M.; Petrenko, V.I.; Avdeev, M.V.; Kopčanský, P.	Journal of Magnetism and Magnetic Materials	431		8	11	2017	2,63	10.1016/j.jmmm.2016.09.035	MML
34	Solution structure and excitation energy transfer in phycobiliproteins of Acaryochloris marina investigated by small angle scattering	Golub, M.; Combet, S.; Wieland, D.C.F.; Soloviov, D.; Kuklin, A.; Lokstein, H.; Schmitt, F.-J.; Olliges, R.; Hecht, M.; Eckert, H.-J.; Pieper, J.	Biochimica et Biophysica Acta - Bioenergetics	1858	4	318	324	2017	4,932	10.1016/j.bbabio.2017.01.010	MML
35	Solution structure of monomeric and trimeric photosystem I of Thermosynechococcus elongatus investigated by small-angle X-ray scattering	Golub, M.; Hejazi, M.; Kölsch, A.; Lokstein, H.; Wieland, D.C.F.; Zouni, A.; Pieper, J.	Photosynthesis Research	133	1-3	163	173	2017	3,864	10.1007/s11120-017-0342-6	MML
36	Nanotomography endstation at the P05 beamline: Status and perspectives	Greving, I.; Ogurreck, M.; Marschall, F.; Last, A.; Wilde, F.; Dose, T.; Burmester, H.; Lottermoser, L.; Müller, M.; David, C.; Beckmann, F.	Journal of Physics: Conference Series	849	1	12056		2017	-	10.1088/1742-6596/849/1/012056	MML
37	German Neutron Scattering Conference in Kiel	Griewatsch, K.; Müller, M.; Unruh, T.	Neutron News	28	2	5	6	2017	-	10.1080/10448632.2017.1308184	MML
38	Structural and magnetic properties of the nanocomposite materials based on a mesoporous silicon dioxide matrix	Grigor'eva, N.A.; Eckerlebe, H.; Eliseev, A.A.; Lukashin, A.V.; Napol'skii, K.S.; Kraje, M.; Grigor'ev, S.V.	Journal of Experimental and Theoretical Physics	124	3	476	492	2017	1,196	10.1134/S106377611702011X	MML
39	Microstructure stability of γ-TiAl produced by selective laser melting	Gussone, J.; Garces, G.; Haubrich, J.; Stark, A.; Hagedorn, Y.-C.; Schell, N.; Requena, G.	Scripta Materialia	130		110	113	2017	3,747	10.1016/j.scriptamat.2016.11.028	AEM/MML
40	Reconstructing the anterior part of the nervous system of Gordius aquaticus (Nematomorpha, cycloneuralia) by a multimethodological approach	Henne, S.; Friedrich, F.; Hammel, J.U.; Sombke, A.; Schmidt-Rhaesa, A.	Journal of Morphology	278	1	106	118	2017	1,655	10.1002/jmor.20623	MML
41	High-resolution grating interferometer for phase-contrast imaging at PETRA III	Hipp, A., Moosmann, J., Herzen, J., Hammel, J. U., Schreyer, A., Beckmann, F.	Proceedings of SPIE - Developments in X-Ray Tomog	10391		1039108		2017	Scopus	10.1117/12.2273892	MML
42	Tunable Strain in Magnetoelectric ZnO Microrod Composite Interfaces	Hrkac, S.B.; Koops, C.T.; Abes, M.; Krywka, C.; Müller, M.; Burghammer, M.; Sztucki, M.; Dane, T.; Kaps, S.; Mishra, Y.K.; Adelung, R.; Schmalz, J.; Gerken, M.; Lage, E.; Kirchhof, C.; Quandt, E.; Magnussen, O.M.; Murphy, B.M.	ACS Applied Materials and Interfaces	9	30	25571	25577	2017	7,504	10.1021/acsami.6b15598	MML
43	Combined caloric effects in a multiferroic Ni-Mn-Ga alloy with broad refrigeration temperature region	Hu, Y.; Li, Z.; Yang, B.; Qian, S.; Gan, W.; Gong, Y.; Li, Y.; Zhao, D.; Liu, J.; Zhao, X.; Zuo, L.; Wang, D.; Du, Y.	APL Materials	5	4	46103		2017	4,335	10.1063/1.4980161	MML
44	Composite structure of a phase in metastable beta Ti alloys induced by lattice strain during b to a phase transformation	Hua,K., Zhang, Y., Kou, H., Li, J., Gan, W., Fundenberger, J.-J., Esling, C.	Acta Materialia	132		307	326	2014	5,301	http://dx.doi.org/10.1016/j.actamat.	MML

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
45	Reply to comments on “composite structure of α phase in metastable β Ti alloys induced by lattice strain during β to α phase transformation” by Prof. D. Banerjee	Hua,K., Zhang, Y., Kou, H., Li, J., Gan, W., Fundenberger, J.-J., Esling, C.	Scripta Materialia	141		148	150	2017	3,747	http://dx.doi.org/10.1016/j.scriptamat.2017.08.010	MML
46	Calibrating SANS data for instrument geometry and pixel sensitivity effects: access to an extended Q range	Karge, L., Gilles, R., Busch, S.	Journal of Applied Crystallography	50	5	1382	1394	2017	2,614	10.1107/S1600576717011463	MML
47	The influence of C/Ta ratio on TaC precipitates in Co-Re base alloys investigated by small-angle neutron scattering	Karge, L.; Gilles, R.; Mukherji, D.; Strunz, P.; Beran, P.; Hofmann, M.; Gavilano, J.; Keiderling, U.; Dolotko, O.; Kriele, A.; Neubert, A.; Rösler, J.; Petry, W.	Acta Materialia	132		354	366	2017	5,301	10.1016/j.actamat.2017.04.029	MML
48	Effects of laser shock peening on the microstructure and fatigue crack propagation behaviour of thin AA2024 specimens	Kashaev, N.; Ventzke, V.; Horstmann, M.; Chupakhin, S.; Riekehr, S.; Falck, R.; Maawad, E.; Staron, P.; Schell, N.; Huber, N.	International Journal of Fatigue	98		223	233	2017	2,899	10.1016/j.ijfatigue.2017.01.042	AEM/MML
49	Functionality of whey proteins covalently modified by allyl isothiocyanate. Part 1 physicochemical and antibacterial properties of native and modified whey proteins at pH 2 to 7	Keppler, J.K.; Martin, D.; Garamus, V.M.; Berton-Carabin, C.; Nipoti, E.; Coenye, T.; Schwarz, K.	Food Hydrocolloids	65		130	143	2017	4,747	10.1016/j.foodhyd.2016.11.016	MML
50	In-situ Monitoring of Laser Surface Line Hardening by Means of Synchrotron X-Ray Diffraction	Kiefer, D.; Gibmeier, J.; Beckmann, F.; Wilde, F.	RESIDUAL STRESSES 2016: ICRS-10, Materials Research Proceedings	2		467	472	2017	Proceeding	10.21741/9781945291173-79	MML
51	Severe plastic deformation by equal channel angular pressing and rolling: the influence of the deformation path on strain distribution	Kliauga, A.M., Sordi, V.L., de Vincentis, N.S., Bolmaro, R.E., Schell, N., and Brokmeier, H.-G.	Advanced Engineering Materials			1700055		2017	2,319	10.1002/adem.201700055	MML
52	Miniaturized compound refractive X-ray zoom lens	Kornemann, E.; O. Márkus, A. Opolka, T. Zhou, I. Greving, M. Storm, C. Krywka, A. Last, and J. Mohr	Optics Express	25	19	22455	22466	2017	3,307	10.1364/OE.25.022455	MML
53	Growth of nano-dots on the grazing incidence mirror surface under FEL irradiation: Analytic approach to modeling	Kozhevnikov, I.V.; Buzmakov, A.V.; Siewert, F.; Tiedtke, K.; Störmer, M.; Samoylova, L.; Sinn, H.	Proceedings of SPIE - The International Society for Optical Engineering	10236		102360D		2017	-	10.1117/12.2269371	MML
54	Application of a portable 3He-based polarization insert at a time-of-flight neutron reflectometer	Kreuzpaintner, W.; Masalovich, S.; Moulin, J.-F.; Wiedemann, B.; Ye, J.; Mayr, S.; Paul, A.; Haese, M.; Pomm, M.; Böni, P.	Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment	848		144	152	2017	1,362	10.1016/j.nima.2016.12.017	MML
55	In situ Polarized Neutron Reflectometry: Epitaxial Thin-Film Growth of Fe on Cu(001) by dc Magnetron Sputtering	Kreuzpaintner, W.; Wiedemann, B.; Stahn, J.; Moulin, J.-F.; Mayr, S.; Mairoser, T.; Schmehl, A.; Herrnberger, A.; Korelis, P.; Haese, M.; Ye, J.; Pomm, M.; Böni, P.; Mannhart, J.	Physical Review Applied	7	5	54004		2017	4,808	10.1103/PhysRevApplied.7.054004	MML
56	Effect of grain boundary misorientaton, deformation temperature and AlFeMnSi-phase on fatigue life of 6082 Al alloy	Kumar, N.; Goel, S.; Jayaganthan, R.; Brokmeier, H.-G.	Materials Characterization	124		229	240	2017	2,714	10.1016/j.matchar.2017.01.002	MML
57	Effect of deformation temperature on precipitation, microstructural evolution, mechanical and corrosion behavior of 6082 Al alloy	Kumar, N.; Jayaganthan, R.; Brokmeier, H.G.	Transactions of Nonferrous Metals Society of China (English Edition)	27	3	475	492	2017	1,342	10.1016/S1003-6326(17)60055-4	MML

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
58	Microstructure of gas atomised γ-TiAl based alloy powders	Laipple, D., Wang, L., Rackel, M.W., Stark, A., Schwebke, B., Schreyer, A., and Pyczak, F.	MRS Advances			1	6	2017	Scopus	10.1557/adv.2017.88	AEM/MML
59	Using SRμCT to define water transport capacity in Picea abies	Lautner Silke, Claudia Lenz, Jörg Hammel, Julian Moosmann, Michael Kühn, Michele Caselle, Matthias Vogelgesang, Andreas Kopmann, Felix Beckmann	Proc. SPIE, Developments in X-Ray Tomography	XI		1039118		2017	Proceeding	http://dx.doi.org/10.1117/12.228722	AEM/MML
60	Using SRμCT to define water transport capacity in Picea abies	Lautner, S., Lenz, C., Hammel, J. U., Moosmann, J., Kühn, M., Caselle, M., Vogelgesang, M., Kopmann, A., Beckmann, F.	Proceedings of SPIE - Developments in X-Ray Tomog	10391		1039118		2017	Scopus	10.1117/12.2287221	MML
61	Thermal Stability of γ' phase in long-term aged Co-Al-W alloys	Li, Y., Pyczak, F., Oehring, M., Wang, L., Paul, J., Lorenz, U., Yao, Z.	Journal of Alloys and Compounds	729		266	276	2017	3,133	10.1016/j.jallcom.2017.09.157	AEM/MML
62	Azide-Modified Membrane Lipids: Synthesis, Properties, and Reactivity	Lindner, S.; Gruhle, K.; Schmidt, R.; Garamus, V.M.; Ramsbeck, D.; Hause, G.; Meister, A.; Sinz, A.; Drescher, S.	Langmuir	33	20	4960	4973	2017	3,833	10.1021/acs.langmuir.7b00228	MML
63	Chondrogenic differentiation of ATDC5-cells under the influence of Mg and Mg alloy degradation	Martinez, Sanchez, A.H.; Feyerabend, F.; Laipple, D.; Willumeit-Römer, R.; Weinberg, A.; Luthringer, B.J.C.	Materials Science and Engineering C	72		378	388	2017	4,164	10.1016/j.msec.2016.11.062	AEM/MML
64	HERITAGE: the concept of a giant flux neutron reflectometer for the exploration of 3-d structure of free-liquid and solid interfaces in thin films	Mattauch, S.; Ioffe, A.; Lott, D.; Bottyán, L.; Daillant, J.; Markó, M.; Menelle, A.; Sajti, S.; Veres, T.	Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment	841		34	46	2017	1,362	10.1016/j.nima.2016.09.043	MML
65	Structure-activity relationships in carbohydrates revealed by their hydration	Maugeri, L.; Busch, S.; McLain, S.E.; Pardo, L.C.; Bruni, F.; Ricci, M.A.	Biochimica et Biophysica Acta - General Subjects	1861	6	1486	1493	2017	4,702	10.1016/j.bbagen.2016.12.017	MML
66	Oriented crystallization of barium sulfate confined in hierarchical cellular structures	Merk, V.; Berg, J.K.; Krywka, C.; Burgert, I.	Crystal Growth and Design	17	2	677	684	2017	4,055	10.1021/acs.cgd.6b01517	MML
67	Structure characterization of the magnetosome solutions for hyperthermia study	Molcan, M.; Petrenko, V.I.; Avdeev, M.V.; Ivankov, O.I.; Garamus, V.M.; Skumiel, A.; Jozefczak, A.; Kubovcikova, M.; Kopcansky, P.; Timko, M.	Journal of Molecular Liquids	235		11	16	2017	3,648	10.1016/j.molliq.2016.12.054	MML
68	Biodegradable magnesium-based implants in bone studied by synchrotron radiation microtomography	Moosmann, J., Zeller-Plumhoff, B., Wieland, D.C.F., Galli, S., Krüger, D., Dose, T., Burmester, H., Wilde, F., Bech, M., Peruzzi, N., Wiese, B., Hipp, A., Beckmann, F., Hammel, J., Willumeit-Römer, R.	Proceedings of SPIE - Developments in X-Ray Tomog	10391		103910O		2017	Scopus	10.1117/12.2275121	AEM/MML
69	Qu-antifying adsorption-induced deformation of nanoporous materials on different length scales	Morak, R., Braxmeier, S., Ludescher, L., Putz, F., Busch, S., Hüsing, N., Reichenauer, G., Paris, O.	Journal of Applied Crystallography	50	5	1404	1410	2017	2,614	10.1107/S1600576717012274	MML
70	Myoanatomy of the velvet worm leg revealed by laboratory-based nanofocus X-ray source tomography	Müller, M. , de Sena Oliveira, I. , Allner, S., Ferstl, S., Bidola, P., Mechlem, K., Fehringer, A., Hehn, L., Dierolf, M., Achterhold, K., Gleich, B., Hammel, J.U., Jahn, H., Mayer, G., Pfeiffer, F.	PNAS - Proceedings of the National Academy of Scie	114	47	12378	12383	2017	9,661	10.1073/pnas.1710742114	MML
71	Double-flow focused liquid injector for efficient serial femtosecond crystallography	Oberthuer, D.; Knoška, J.; Wiedorn, M.O.; Beyerlein, K.R.; Bushnell, D.A.; Kovaleva, E.G.; Heymann, M.; Gumprecht, L.; Kirian, R.A.; Barty, A.; Mariani, V.; Tolstikova, A.; Adriano, L.; Awel, S.; Barthelmess, M.; Dörner, K.; Xavier, P.L.; Yefanov, O.; James, D.R.; Nelson, G.; Wang, D.; Calvey, G.; Chen, Y.; Schmidt, A.; Szczepek, M.; Frielingsdorf, S.; Lenz, O.; Snell, E.; Robinson, P.J.; Šarler, B.; Belšak, G.; Maček, M.; Wilde, F.; Aquila, A.; Boutet, S.; Liang, M.; Hunter, M.S.; Scheerer, P.; Lipscomb, J.D.; Weierstall, U.; Kornberg, R.D.; Spence, J.C.H.; Pollack, L.; Chapman, H.N.; Bajt, S.	Scientific Reports	7		44628		2017	4,259	10.1038/srep44628	MML
72	Welding and joining of NiTi shape memory alloys: a review	Oliveira, J.P., Miranda, R.M., and Braz Fernandes, F.M.	Progress in Materials Science	88		412	466	2017	31,14	10.1016/j.pmatsci.2017.04	MML

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
73	Production of Al/NiTi composites by friction stir welding assisted by electrical current	Oliveira, J.P.; Duarte, J.F.; Inácio, P.; Schell, N.; Miranda, R.M.; Santos, T.G.	Materials and Design	113		311	318	2017	4,364	10.1016/j.matdes.2016.10.038	MML
74	Depth resolved near-surface residual stresses in γ-based TiAl before and after high-temperature exposure	Paul, J.D.H.; Oehring, M.; Appel, F.; Pyczak, F.	Intermetallics	84		103	111	2017	3,14	10.1016/j.intermet.2016.12.014	AEM/MML
75	C60 fullerene enhances cisplatin anticancer activity and overcomes tumor cell drug resistance	Prylutska, S.; Panchuk, R.; Gołuński, G.; Skivka, L.; Prylutskyy, Y.; Hurmach, V.; Skorohyd, N.; Borowik, A.; Woziwodzka, A.; Piosik, J.; Kyzyma, O.; Garamus, V.; Bulavin, L.; Evstigneev, M.; Buchelnikov, A.; Stoika, R.; Berger, W.; Ritter, U.; Scharff, P.	Nano Research	10	2	652	671	2017	7,354	10.1007/s12274-016-1324-2	MML
76	Lubrication synergy: Mixture of hyaluronan and dipalmitoylphosphatidylcholine (DPPC) vesicles	Raj, A.; Wang, M.; Zander, T.; Wieland, D.C.F.; Liu, X.; An, J.; Garamus, V.M.; Willumeit-Römer, R.; Fielden, M.; Claesson, P.M.; Dėdinaitė, A.	Journal of Colloid and Interface Science	488		225	233	2017	4,233	10.1016/j.jcis.2016.10.091	AEM/MML
77	Texture characterization of stainless steel cladded layers of process vessels	Rebelo Kornmeier, J.; Gan, W.M.; Marques, M.J.; Batista, A.C.; Hofmann, M.; Loureiro, A.	Materials Science Forum	879		1588	1593	2017	-	10.4028/www.scientific.net/MSF.879.1588	MML
78	New Developments of the Materials Science Diffractometer STRESS-SPEC	Rebelo-Kornmeier J., Hofmann M., Wei Min Gan, Randau C., Braun K., Zeitelhack K., Defendi I., Krueger, J., Faulhaber E., Brokmeier, H.G.	Materials Science Forum	905		151	156	2017	Scopus	10.4028/www.scientific.net/msf.905.151	MML
79	Microstructural characterization of NiTi shape memory alloy produced by rotary hot forging	Rodrigues, P., Braz Fernandes, F.M., Paula, A.S., Oliveira, J.P., Ribeiro, S.B., Texeira, E.N., and Schell, N.	Powder Diffraction	32		S201	S206	2017	0,674	10.1017/S0885715617000549	MML
80	PETRA IV Workshop on Research with High-Energy X-rays at Ultra-Low Emittance Sources	Ruett, U.; Dippel, A.-C.; Beckmann, F.; Lienert, U.; Liermann, H.-P.; Zimmermann, M.V.; Schroer, C.G.	Synchrotron Radiation News	30	3	55	57	2017	Scopus	10.1080/08940886.2017.1316138	MML
81	Morphological analysis of cerium oxide stabilized nanoporous gold catalysts by soft X-ray ASAXS	Rumancev, C., von Gundlach, A.R., Baier,S. , Wittstock, A., Shi, J., Benzi, F., Senkbeil,T., Stuhr,S., Garamus, V.M., Grunwaldt, J.-D., Rosenhahn, A.	RSC Advances	7		45344	45350	2017	3,108	10.1039/c7ra05396g	AEM/MML
82	Synchrotron-Based Capabilities for Studying Engineering Materials at PETRA-III	Schell, N.	Synchrotron Radiation News	30	3	29	34	2017	Scopus	10.1080/08940886.2017.1316129	MML
83	Changes within the stabilizing layer of ZnO nanoparticles upon washing	Schindler, T.; Schmutzler, T.; Schmiele, M.; Lin, W.; Segets, D.; Peukert, W.; Appavou, M.-S.; Kriele, A.; Gilles, R.; Unruh, T.	Journal of Colloid and Interface Science	504		356	362	2017	4,233	10.1016/j.jcis.2017.05.059	MML
84	The NOVA project: maximizing beam time efficiency through synergistic analyses of SRμCT data	Schmelzle, S., Heethoff, M., Heuveline, V., Lösel, P., Becker, J., Beckmann, F., Schluenzen, F., Hammel, J.U., Kopmann, A., Mexner, W., Vogelgesang, M., Jerome, N.T., Betz, O., Beutel, R., Wipfler, B., Blanke, A., Harzsch, S., Hörnig, M., Baumbach, T., van de Kamp, T.	Proceedings of SPIE - Developments in X-Ray Tomog	10391		103910P		2017	Scopus	10.1117/12.2275959	MML
85	Thermodynamical instability of nanocrystalline, singlephase TiZrNbHfTa alloy and its impact on the mechanical properties	Schuh, B., Völker, B., Todt, J., Schell, N., Perriere, L., Couzinié, J.P., and Hohenwarter, A.	Acta Materialia	142		201	212	2017	5,301	doi: 10.1016/j.actamat.2017.09.035	MML
86	Microstructure of calcite deformed by high-pressure torsion: an x-ray line profile study	Schuster, R., Schafler, E., Schell, N., Kunz, M., and Abart, R.	Tectonophysics	721		448	461	2017	2,693	10.1016/j.tecto.2017.10.015	MML
87	Spin-wave dynamics in the helimagnet FeGe studied by small-angle neutron scattering	Siegfried, S.-A.; Sukhanov, A.S.; Altynbaev, E.V.; Honecker, D.; Heinemann, A.; Tsvyashchenko, A.V.; Grigoriev, S.V.	Physical Review B	95	13	134415		2017	3,836	10.1103/PhysRevB.95.134415	MML

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
88	Thermoresponsive behavior of poly(N-isopropylacrylamide)s with dodecyl and carboxyl terminal groups in aqueous solution: pH-dependent cloud point temperature	Škvarla, J.; Raya, R.K.; Uchman, M.; Zedník, J.; Procházka, K.; Garamus, V.M.; Meristoudi, A.; Pispas, S.; Štěpánek, M.	Colloid and Polymer Science	295	8	1343	1349	2017	1,723	10.1007/s00396-017-4067-z	MML
89	Morphological structure of Gluconacetobacter xylinus cellulose and cellulose-based organic-inorganic composite materials	Smyslov, R. Yu.; K. V. Ezdakova, G. P. Kopitsa, A. K. Khripunov, À. N. Bugrov, A. A. Tkachenko, B. Angelov, V. Pipich, N. K. Szekely, À. Å. Baranchikov, E. Latysheva, Yu. O. Chetverikov, V. Haramus	IOP Conf. Series: Journal of Physics: Conf. Series	848		12017		2017	Scopus	10.1088/1742-6596/848/1/012017	MML
90	Formation of a quasicrystalline phase in Al–Mn base alloys cast at intermediate cooling rates	Stan-Głowińska, K.; Rogal, Ł.; Góral, A.; Wierzbicka-Miernik, A.; Wojewoda-Budka, J.; Schell, N.; Lityńska-Dobrzyńska, L.	Journal of Materials Science	52	13	7794	7807	2017	2,599	10.1007/s10853-017-1011-z	MML
91	In-situ experiment for laser beam welding of Ti alloys using high-energy x-rays	Staron, P., Liu, J., Riekehr, S., Schell, N., Huber, N., Kashaev, N., Müller, M., and Schreyer, A.	Materials Science Forum: Mechanical Stress Evaluation by Neutrons and Synchrotron Radiation	905		114	119	2017	-	10.1017/S0885715617000549	MML
92	In situ experiment for laser beam welding of Ti alloys using high-energy X-rays	Staron, P., Liu, J., Riekehr, S., Schell, N., Huber, N., Kashaev, N., Müller, M., Schreyer, A.	Materials Science Forum	905		114	119	2017	Proceeding	10.4028/www.scientific.net/MSF.905.114	AEM/MML
93	Corrigendum: A fossil biting midge (Diptera: Ceratopogonidae) from early Eocene Indian amber with a complex pheromone evaporator	Stebner, F., Szadziewski, R., Rühr, P.T., Singh, H., Hammel, J.U., Kvifte, G.M., Rust, J.	Scientific Reports	7		41899		2017	4,259	10.1038/srep41899	MML
94	Neutron detectors for the ESS diffractometers	Stefanescu, I.; Christensen, M.; Fenske, J.; Hall-Wilton, R.; Henry, P.F.; Kirstein, O.; Müller, M.; Nowak, G.; Pooley, D.; Raspino, D.; Rhodes, N.; Šaroun, J.; Schefer, J.; Schooneveld, E.; Sykora, J.; Schweika, W.	Journal of Instrumentation	12	1	P01019		2017	1,22	10.1088/1748-0221/12/01/P01019	MML
95	Analytical registration of vertical image drifts in parallel beam tomographic data	Storm, M.; Beckmann, F.; Rau, C.	Optics Letters	42	23	4982	4985	2017	3,416	10.1364/OL.42.004982	MML
96	3D Microstructural Evolution on Solidifying Mg–5Nd–5Zn Alloy Observed via In Situ Synchrotron Tomography	Subroto, T.; Mendis, C.L.; D`Elia, F.; Szakacs, G.; Fife, J.L.; ; Hort, N.; Kainer, K.U.; Tolnai, D.	Magnesium Technology 2017			605	612	2017	Proceeding	10.1007/978-3-319-52392-7_83	AEM/MML
97	Magnetic field induced chirality in Ho/Y multilayers with gradually decreasing anisotropy	Tarnavich, V.; Tartakovskaya, E.; Chetverikov, Y.; Golub, V.; Lott, D.; Chernenkov, Y.; Devishvili, A.; Ukleev, V.; Kapaklis, V.; Oleshkevych, A.; Fedorov, V.; Bairamukov, V.; Vorobiev, A.; Grigoriev, S.	Physical Review B	96	1	14415		2017	3,836	10.1103/PhysRevB.96.014415	MML
98	Single and double grating-based X-ray microtomography using synchrotron radiation	Thalmann, P.; Bikis, C.; Hipp, A.; Müller, B.; Hieber, S.E.; Schulz, G.	Applied Physics Letters	110	6	61103		2017	3,411	10.1063/1.4975679	MML
99	Martensite formation during incremental cooling of Fe-Cr-Ni alloys: An in-situ bulk X-ray study of the grain-averaged and single-grain behavior	Tian, Y.; Lienert, U.; Borgenstam, A.; Fischer, T.; Hedström, P.	Scripta Materialia	136		124	127	2017	3,747	10.1016/j.scriptamat.2017.04.020	MML
100	Effect of the Zn Content on the Compression Behaviour of Mg5Nd(Zn): An In Situ Synchrotron Radiation Diffraction Study	Tolnai, D.; Kaercher, T.; Buzolin, R.; Subroto, T. ; D'Elia, F.; Gavras, S.; Stark, A.; Schell, N.; Hort, N.; Kainer, K.U.	MAGNESIUM TECHNOLOGY 2017, Minerals Metals & Materials Series			675	681	2017	Proceeding	10.1007/978-3-319-52392-7_93	AEM/MML

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
101	Ordering and disordering of β/βo-phase in γ-TiAl based alloys investigated by neutron diffraction	Victoria Kononikhina, Andreas Stark, Weimin Gan, Andreas Schreyer, Florian Pyczak	MRS Advances			1	6	2017	Scopus	10.1557/adv.2017.145	AEM/MML
102	Phase evolution and carbon redistribution during continuous tempering of martensite studied with high resolution techniques	Vieweg, A., Povoden-Karadeniz, E., Ressel, G., Prevedel, P., Wojcik, T., Mendez-Martin, F., Stark, A., Keckes, J., Kozeschnik, E.	Materials & Design	136		214	222	2017	4,364	10.1016/j.matdes.2017.09.065	MML
103	Stress-induced long-range ordering in spider silk	Wagner, J.A.; Patil, S.P.; Greving, I.; Lämmel, M.; Gkagkas, K.; Seydel, T.; Müller, M.; Markert, B.; Gräter, F.	Scientific Reports	7		15273		2017	4,259	10.1038/s41598-017-15384-8	MML
104	Local flow stresses in interpenetrating-phase composites based on nanoporous gold — In situ diffraction	Wang, K.; Hartig, C.; Blankenburg, M.; Müller, M.; Günther, R.; Weissmüller, J.	Scripta Materialia	127		151	155	2017	3,747	10.1016/j.scriptamat.2016.09.026	AEM/MML
105	Influence of alloy composition and thermal history on carbide precipitation in γ-based TiAl alloys	Wang, L.; Lorenz, U.; Münch, M.; Stark, A.; Pyczak, F.	Intermetallics	89		32	39	2017	3,14	10.1016/j.intermet.2017.05.006	AEM/MML
106	Morphology evolution of Ti3AlC carbide precipitates in high Nb containing TiAl alloys	Wang, L.; Zenk, C.; Stark, A.; Felfer, P.; Gabrisch, H.; Göken, M.; Lorenz, U.; Pyczak, F.	Acta Materialia	137		36	44	2017	5,301	10.1016/j.actamat.2017.07.018	AEM/MML
107	Complex solutions under shear and pressure: A rheometer setup for X-ray scattering experiments	Wieland, D.C.F.; Zander, T.; Garamus, V.M.; Krywka, C.; Dedinaite, A.; Claesson, P.; Willumeit-Römer, R.	Journal of Synchrotron Radiation	24	3	646	652	2017	3,011	10.1107/S1600577517002648	AEM/MML
108	Characteristics of intermetallic phases in Cu/(Sn,Ni) diffusion couples annealed at 220 °C	Wierzbicka-Miernik, A.; Wojewoda-Budka, J.; Miernik, K.; Litynska-Dobrzynska, L.; Schell, N.	Journal of Alloys and Compounds	693		1102	1108	2017	3,133	10.1016/j.jallcom.2016.09.147	MML
109	Cycling capacity recovery effect: A coulombic efficiency and post-mortem study	Wilhelm, J.; Seidlmayer, S.; Keil, P.; Schuster, J.; Kriele, A.; Gilles, R.; Jossen, A.	Journal of Power Sources	365		327	338	2017	6,395	10.1016/j.jpowsour.2017.08.090	MML
110	Phase transformations of stoichiometric mixtures of hematite and iron under FAST conditions	Witte, K.; Bodnar, W.; Schell, N.; Fulda, G.; Burkel, E.	Journal of Alloys and Compounds	724		728	734	2017	3,133	10.1016/j.jallcom.2017.07.089	MML
111	Stabilization of aqueous dispersions of poly(methacrylic acid)-coated iron oxide nanoparticles by double hydrophilic block polyelectrolyte poly(ethylene oxide)-block-poly(N-methyl-2-vinylpyridinium iodide)	Woźniak, E.; Špírková, M.; Šlouf, M.; Garamus, V.M.; Šafaříková, M.; Šafařík, I.; Štěpánek, M.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	514		32	37	2017	2,714	10.1016/j.colsurfa.2016.11.044	MML
112	X-ray phase microtomography with a single grating for high-throughput investigations of biological tissue	Zdora, M.-C.; Vila-Comamala, J.; Schulz, G.; Khimchenko, A.; Hipp, A.; Cook, A.C.; Dilg, D.; David, C.; Grünzweig, C.; Rau, C.; Thibault, P.; Zanette, I.	Biomedical Optics Express	8	2	1257	1270	2017	3,337	10.1364/BOE.8.001257	MML
113	Quantitative characterization of degradation processes in situ by means of a bioreactor coupled flow chamber under physiological conditions using time-lapse SRμCT	Zeller-Plumhoff, B., Helmholz, H., Feyerabend, F., Dose, T., Wilde, F., Hipp, A., Beckmann, F.; Willumeit-Römer, R., Hammel, J.U.	Materials and Corrosion			1	9	2017	Scopus	10.1002/maco.201709514	AEM/MML
114	Phase contrast synchrotron radiation computed tomography of muscle spindles in the mouse soleus muscle	Zeller-Plumhoff, B.; Roose, T.; Katsamenis, O.L.; Mavrogordato, M.N.; Torrens, C.; Schneider, P.; Clough, G.F.	Journal of Anatomy	230	6	859	865	2017	2,182	10.1111/joa.12606	MML

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
115	Enhanced multiscale modeling of macroscopic and microscopic residual stresses evolution during multi-thermo-mechanical processes	Zhang, X.X.; Wang, D.; Xiao, B.L.; Andrä, H.; Gan, W.M.; Hofmann, M.; Ma, Z.Y.	Materials and Design	115		364	378	2017	4,364	10.1016/j.matdes.2016.11.070	MML
116	Hot carrier relaxation in CdTe via phonon-plasmon modes	Zhong, Y.; Ostach, D.; Scholz, M.; Epp, S.W.; Techert, S.; Schlichting, I.; Ullrich, J.; Krasniqi, F.S.	JOURNAL OF PHYSICS-CONDENSED MATTER	29	9	95701		2017	2,649	10.1088/1361-648X/aa5478	MML
117	Mineral in skeletal elements of the terrestrial crustacean Porcellio scaber: SRμCT of function related distribution and changes during the moult cycle	Ziegler, A.; Neues, F.; Janáček, J.; Beckmann, F.; Epple, M.	Arthropod Structure and Development	46	1	63	76	2017	1,546	10.1016/j.asd.2016.05.004	MML
118	Time-resolved proton polarisation (TPP) images tyrosyl radical sites in bovine liver catalase.	Zimmer, O.; Jouve, H.M.; Stuhrmann, H.B.	Journal of Physics: Conference Series	848	1	12002		2017	-	10.1088/1742-6596/848/1/012002	MML
119	Inhomogeneity and relaxation phenomena in the graphite anode of a lithium-ion battery probed by in situ neutron diffraction	Zinth, V.; von Lüders, C.; Wilhelm, J.; Erhard, S.V.; Hofmann, M.; Seidlmayer, S.; Rebelo-Kornmeier, J.; Gan, W.; Jossen, A.; Gilles, R.	Journal of Power Sources	361		54	60	2017	6,395	10.1016/j.jpowsour.2017.06.060	MML
120	New POLDI – project of reincarnation of a polarized neutron diffractometer at the reactor PIK	Zobkalo, I., Gavrilov, S., Matveev, V., Fenske, J.	Journal of Physics: Conf. Series	862		12031		2017	Scopus	10.1088/1742-6596/862/1/012031	MML
121	Self-assembled stable sponge-type nanocarries for Brucea javanica oil delivery	Zou, A.; Li, Y.; Chen, Y.; Angelova, A.; Garamus, V.M.; Li, N.; Drechsler, M.; Angelov, B.; Gong, Y.	Colloids and Surfaces B: Biointerfaces	153		310	319	2017	3,887	10.1016/j.colsurfb.2017.02.031	MML
122	Folate receptor targeted bufalin/β-cyclodextrin supramolecular inclusion complex for enhanced solubility and anti-tumor efficiency of bufalin	Zou, A.; Zhao, X.; Handge, U.A.; Garamus, V.M.; Willumeit-Römer, R.; Yin, P.	Materials Science and Engineering C	78		609	618	2017	4,164	10.1016/j.msec.2017.04.094	AEM/MML

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
1	Regulation of benthic oxygen fluxes in permeable sediments of the coastal ocean	Ahmerkamp, S., Winter, C., Krämer, K., Beer, D. d., Janssen, F., Friedrich, J., Kuypers, M. M. M. and Holtappels, M.	Limnol. Oceanogr.	62	5	1935	1954	2017	Scopus	doi:10.1002/lno.10544	PACES II
2	Last millennium Northern Hemisphere summer temperatures from tree rings: Part II, spatially resolved reconstructions	Anchukaitis, K.J., Wilson, R., Briffa, K.R., Büntgen, U., Cook, E.R., D'Arrigo, R., Davi, N., Esper, J., Frank, D., Gunnarson, B.E., Heger, G., Helama, S., Klesse, S., Krusic, P.J., Linderholm, H., Myglan, V., Osborn, T.J., Zhang, P., Rydval, M., Schneider, L., Schurer, A.,Wiles, G. and Zorita, E.	Quaternary Science Rev.	163		1	22	2017	4,797	10.1016/j.quascirev.2017.02.020	PACES II
3	Environmental occurrence and distribution of organic UV stabilizers and UV filters in the sediment of Chinese Bohai and Yellow Seas	Apel, C., Tang, J., Ebinghaus, R.	Environmental Pollution	235		85	94	2017	Scopus	10.1016/j.envpol.2017.12.051	PACES II
4	Changes in intense tropical cyclone activity for the western North Pacific during the last decades derived from a regional climate model simulation	Barcikowska, M.; Feser, F.; Zhang, W.; Mei, W.	Climate Dynamics	49	9-10	2931	2949	2017	4,146	10.1007/s00382-016-3420-0	PACES II
5	Impact of large-scale circulation changes in the North Atlantic sector on the current and future Mediterranean winter hydroclimate	Barcikowska, M.J.; Kapnick, S.B.; Feser, F.	Climate Dynamics			1	21	2017	4,146	10.1007/s00382-017-3735-5	PACES II
6	Observed warming over northern South America has an anthropogenic origin	Barkhordarian, A., von Storch, H., Zorita, E., Loikith, P.C., and Mechoso, C.R.	Climate Dynamics					2017	Scopus	10.1007/s00382-017-3988-z	PACES II
7	The Coastal Observing System for Northern and Arctic Seas (COSYNA)	Baschek, B.; Schroeder, F.; Brix, H.; Riethmüller, R.; Badewien, T.H.; Breitbach, G.; Brügge, B.; Colijn, F.; Doerffer, R.; Eschenbach, C.; Friedrich, J.; Fischer, P.; Garthe, S.; Horstmann, J.; Krasemann, H.; Metfies, K.; Merckelbach, L.; Ohle, N.; Petersen, W.; Pröfrock, D.; Röttgers, R.; Schlüter, M.; Schulz, J.; Schulz-Stellenfleth, J.; Stanev, E.; Staneva, J.; Winter, C.; Wirtz, K.; Wollschläger, J.; Zielinski, O.; Ziemer, F.	Ocean Science	13	3	379	410	2017	2,821	10.5194/os-13-379-2017	PACES II
8	Slight phenotypic variation in predators and prey causes complex predator-prey oscillations	Bengfort, M.; van Velzen, E.; Gaedke, U.	Ecological Complexity	31		115	124	2017	1,784	10.1016/j.ecocom.2017.06.003	PACES II
9	Potential volcanic impacts on future climate variability	Bethke, I., Outten, S., Otterå, O.H., Hawkins, E., Wagner, S., Sigl, M. and Thorne, P	Nature Climate Change			2017			19,304	10.1038/nclimate3394	PACES II
10	A wind proxy based on migrating dunes at the Baltic coast: Statistical analysis of the link between wind conditions and sand movement	Bierstedt, S.E.; Hünicke, B.; Zorita, E.; Ludwig, J.	Earth System Dynamics	8	3	639	652	2017	3,635	10.5194/esd-8-639-2017	PACES II
11	Multi-model study of mercury dispersion in the atmosphere: Vertical and interhemispheric distribution of mercury species	Bieser, J.; Slemr, F.; Ambrose, J.; Brenninkmeijer, C.; Brooks, S.; Dastoor, A.; Desimone, F.; Ebinghaus, R.; Gencarelli, C.N.; Geyer, B.; Gratz, L.E.; Hedgecock, I.M.; Jaffe, D.; Kelley, P.; Lin, C.-J.; Jaegle, L.; Matthias, V.; Ryjkov, A.; Selin, N.E.; Song, S.; Travnikov, O.; Weigelt, A.; Luke, W.; Ren, X.; Zahn, A.; Yang, X.; Zhu, Y.; Pirrone, N.	Atmospheric Chemistry and Physics	17	11	6925	6955	2017	5,318	10.5194/acp-17-6925-2017	PACES II
12	Mapping mud content and median grain-size of North Sea sediments – a geostatistical approach	Bockelmann, F., Puls, W., Kleeberg, U., Müller, D., Emeis, K.	Marine Geology	397		60	71	2017	3,572	10.1016/j.margeo.2017.11.003	PACES II

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
13	Obtaining Phytoplankton Diversity from Ocean Color: A Scientific Roadmap for Future Development	Bracher A., Bouman H., Brewin R.J., Bricaud A., Brotas V., Ciotti A.M., Clementson L., Devred E., Di Cicco A., Dutkiewicz S., Hardman-Mountford N., Hickman A.E., Hieronymi M., Hirata T., Losa S.N., Mouw C., Organelli E., Raitsos D.E., Uitz J., Vogt M., and Wolanin A.	Front. Mar. Sci.	4	55			2017	Scopus	10.3389/fmars.2017.00055	PACES II
14	Advancing integrated research on European river–sea systems: the DANUBIUS-RI project	Bradley, C., Bowes, M. J., Brils, J., Friedrich, J., Gault, J., Groom, S., Hein, T., Heininger, P., Michalopoulos, P., Panin, N., Schultz, M., Stanica, A., Andrei, I., Tyler, A., Umgiesser, G.	International Journal of Water Resources Development	in press		1	12	2017	Scopus	10.1080/07900627.2017.1399107	PACES II
15	High resolution measurements of nitrous oxide (N2O) in the Elbe estuary	Brase, L.; Bange, H.W.; Lendt, R.; Sanders, T.; Dähnke, K.	Frontiers in Marine Science	4	MAY	162		2017	Scopus	10.3389/fmars.2017.00162	PACES II
16	Airflow measurements at a wavy air-water interface using PIV and LIF	Buckley, Marc P.; Veron, Fabrice	EXPERIMENTS IN FLUIDS	58	11			2017	WOS	10.1007/s00348-017-2439-2	PACES II
17	Reply to 'limited Late Antique cooling'.	Büntgen, U., Myglan, V.S., Ljungqvist, F.C., McCormick, M., Di Cosmo, N., Sigl, M., Jungclaus, H., Wagner, S., Krusic, P.S., Esper, J., Kaplan, J..O, de Vaan, M.A.C., Luterbacher, J., Wacker, L., Tegel, W., Solomina, O.N., Nicolussi, K., Oppenheimer, K., Reinig, F. and Kirdyanov, A.V.	Nature Geoscience	10	4	243		2017	13,941	10.1038/ngeo2927	PACES II
18	New tree-ring evidence from the pyrenees reveals western mediterranean climate variability since medieval times	Büntgen, U.; Krusic, P.J.; Verstege, A.; Sangüesa-Barreda, G.; Wagner, S.; Camarero, J.J.; Ljungqvist, F.C.; Zorita, E.; Oppenheimer, C.; Konter, O.; Tegel, W.; Gärtner, H.; Cherubini, P.; Reinig, F.; Esper, A.J.	Journal of Climate	30	14	5295	5318	2017	4,161	10.1175/JCLI-D-16-0526.1	PACES II
19	Surface drifters in the German Bight: Model validation considering windage and Stokes drift	Callies, U., Groll, N., Horstmann, J., (...), Maßmann, S., Schwichtenberg, F.	OCEAN SCIENCE	13	5	799	827	2017	WOS + Scopus	10.5194/os-13-799-2017	PACES II
20	German Bight residual current variability on a daily basis: principal components of multi-decadal barotropic simulations	Callies, U.; Gaslikova, L.; Kapitza, H.; Scharfe, M.	Geo-Marine Letters	37	2	151	162	2017	1,716	10.1007/s00367-016-0466-2	PACES II
21	A physical interpretation of the wind-wave instability as interacting waves	Carpenter, J.R.; Guha, A.; Heifetz, E.	Journal of Physical Oceanography	47	6	1441	1455	2017	3,13	10.1175/JPO-D-16-0206.1	PACES II
22	Significant Wave Height Measured by Coherent X-Band Radar	Carrasco, R.; Horstmann, J.; Seemann, J.	IEEE Transactions on Geoscience and Remote Sensing					2017	4,942	10.1109/TGRS.2017.2706067	PACES II
23	A simple method for retrieving significant wave height from Dopplerized X-band radar	Carrasco, R.; Streßer, M.; Horstmann, J.	Ocean Science	13	1	95	103	2017	2,821	10.5194/os-13-95-2017	PACES II
24	How distant is climate change? Construal Level Theory analysis of German and Taiwanese students´ statements	Corinna de Guttry, Martin Döring, Beate Ratter	International Journal of Asian Social Science	7	5	434	447	2017	Scopus	10.18488/journal.1.2017.75.434.447	PACES II
25	SMART marine goals, targets and management - Is SDG 14 operational or aspirational, is 'Life Below Water' sinking or swimming?	Cormier, R.; Elliott, M.	Marine Pollution Bulletin					2017	3,146	10.1016/j.marpolbul.2017.07.060	PACES II
26	Moving from ecosystem-based policy objectives to operational implementation of ecosystem-based management measures	Cormier, R.; Kelble, C.R.; Anderson, M.R.; Allen, J.I.; Grehan, A.; Gregersen, Ó.	ICES Journal of Marine Science	74	1	406	413	2017	2,76	10.1093/icesjms/fsw181	PACES II
27	Tune in on 11.57 µHz and listen to primary production	Cox, T. J. S., van Beusekom, J. E. E., Soetaert, K.	Biogeosciences	14	22	5271	5280	2017	3,851	10.5194/bg-14-5271-2017	PACES II

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
28	Low-frequency variability in North Sea and Baltic Sea identified through simulations with the 3-D coupled physical–biogeochemical model ECOSMO	Daewel, U., Schrum, C.	Earth System Dynamics	8	3	801	815	2017	3,635	10.5194/esd-8-801-2017	PACES II
29	Biome changes in Asia since the mid-Holocene - An analysis of different transient Earth system model simulations	Dallmeyer, A.; Claussen, M.; Ni, J.; Cao, X.; Wang, Y.; Fischer, N.; Pfeiffer, M.; Jin, L.; Khon, V.; Wagner, S.; Haberkorn, K.; Herzschuh, U.	Climate of the Past	13	2	107	134	2017	3,543	10.5194/cp-13-107-2017	PACES II
30	Determination of the absorption coefficient of chromophoric dissolved organic matter from underway spectrophotometry	DalL'Olmo, Giorgio; Brewin, Robert J. W.; Nencioli, Francesco; et al.	Optics Express	25	24	A1079	A1095	2017	WOS + Scopus	10.1364/OE.25.0A1079	PACES II
31	Science in support of coastal ocean forecasting--part 1	De Mey, P., Stanev, E. and Kourafalou, V. H.	Ocean Dynamics	67	5	665	668		1,597	10.1007/s10236-017-1048-1	
32	Large-scale atmospheric circulation enhances the Mediterranean East-West tree growth contrast at rear-edge deciduous forests	Dorado-Liñán, I.; Zorita, E.; Martínez-Sancho, E.; Gea-Izquierdo, G.; Di, Filippo, A.; Gutiérrez, E.; Levanic, T.; Piovesan, G.; Vacchiano, G.; Zang, C.; Zlatanov, T.; Menzel, A.	Agricultural and Forest Meteorology	239		86	95	2017	3,887	10.1016/j.agrformet.2017.02.029	PACES II
33	The regional framing of climate change: towards a place-based perspective on regional climate change perception in north Frisia	Döring, M.; Ratter, B.	Journal of Coastal Conservation			1	13	2017	0,959	10.1007/s11852-016-0478-0	PACES II
34	The potential of isotopically enriched magnesium to study bone implant degradation in vivo	Draxler, J.; Martinelli, E.; Weinberg, A.M.; Zitek, A.; Irrgeher, J.; Meischel, M.; Stanzl-Tschegg, S.E.; Mingler, B.; Prohaska, T.	Acta Biomaterialia	51		526	536	2017	6,319	10.1016/j.actbio.2017.01.054	PACES II
35	Optimisation of an extraction/leaching procedure for the characterisation and quantification of titanium dioxide (TiO2) nanoparticles in aquatic environments using SdFFF-ICP-MS and SEM-EDX analyses	Dutschke, F.; Irrgeher, J.; Pröfrock, D.	Analytical Methods	9	24	3626	3635	2017	1,9	10.1039/c7ay00635g	PACES II
36	"And DPSIR begat DAPSI(W)R(M)!" - A unifying framework for marine environmental management	Elliott, M.; Burdon, D.; Atkins, J.P.; Borja, A.; Cormier, R.; de Jonge, V.N.; Turner, R.K.	Marine Pollution Bulletin	118	1-2	27	40	2017	3,146	10.1016/j.marpolbul.2017.03.049	PACES II
37	Biogeochemical processes and turnover rates in the Northern Benguela Upwelling System	Emeis, K., Eggert, A., Flohr, A., Lahajnar, N., Nausch, G., Neumann, A., Rixen, T., Schmidt, M., Van der Plas, A., Wasmund, N.	Marine Systems	in press				2017	2,439	10.1016/j.jmarsys.2017.10.001	PACES II
38	Bridging the gap between observational oceanography and users	Eschenbach, C.A.	Ocean Science	13	1	161	173	2017	2,821	10.5194/os-13-161-2017	PACES II
39	Awareness of sea-level response under climate change on the coast of Ghana	Evadzi, P.I.K., Scheffran, J., Zorita, E., Hünicke, B.	Journal of Coastal Conservation						0,959	10.1007/s11852-017-0569-6	PACES II
40	Quantifying and Predicting the Contribution of Sea-Level Rise to Shoreline Change in Ghana: Information for Coastal Adaptation Strategies	Evadzi, P.I.K., Zorita, E., Hünicke, B.	Journal of Coastal Research	33	6	1283	1291	2017	0,915	10.2112/JCOASTRES-D-16-00119.1	PACES II
41	Validation and intercomparison of ocean color algorithms for estimating particulate organic carbon in the oceans	Evers-King, H.; Martinez-Vicente, V.; Brewin, R.J.W.; Dall'Olmo, G.; Hickman, A.E.; Jackson, T.; Kostadinov, T.S.; Krasemann, H.; Loisel, H.; Röttgers, R.; Roy, S.; Stramski, D.; Thomalla, S.; Platt, T.; Sathyendranath, S.	Frontiers in Marine Science	4	AUG	251		2017	Scopus	10.3389/fmars.2017.00251	PACES II

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
42	First year of practical experiences of the new Arctic AWIPEV-COSYNA cabled Underwater Observatory in Kongsfjorden, Spitsbergen	Fischer, P.; Schwanitz, M.; Loth, R.; Posner, U.; Brand, M.; Schröder, F.	Ocean Science	13	2	259	272	2017	2,821	10.5194/os-13-259-2017	PACES II
43	Distance-based mixing models of δ18 NNO3− and δ18 ONO3− in a marsh-lined estuary with multiple, distinct NO3− sources (Murderkill Estuary, Delaware, USA)	Fischer, S.J.; York, J.K.; Voynova, Y.G.; Ullman, W.J.	Limnology and Oceanography	62	2	408	420	2017	3,383	10.1002/lno.10398	PACES II
44	Pelagic effects of offshore wind farm foundations in the stratified North Sea	Floeter, J.; van Beusekom, J.E.E.; Auch, D.; Callies, U.; Carpenter, J.; Dudeck, T.; Eberle, S.; Eckhardt, A.; Gloe, D.; Hänselmann, K.; Hufnagl, M.; Janßen, S.; Lenhart, H.; Möller, K.O.; North, R.P.; Pohlmann, T.; Riethmüller, R.; Schulz, S.; Spreizenbarth, S.; Temming, A.; Walter, B.; Zielinski, O.; Möllmann, C.	Progress in Oceanography	156		154	173	2017	3,391	10.1016/j.pocean.2017.07.003	PACES II
45	Late Holocene droughts in the Fertile Crescent recorded in a speleothem from northern Iraq	Flohr, P.; Fleitmann, D.; Zorita, E.; Sadekov, A.; Cheng, H.; Bosomworth, M.; Edwards, L.; Matthews, W.; Matthews, R.	Geophysical Research Letters	44	3	1528	1536	2017	4,235	10.1002/2016GL071786	PACES II
46	Maternal transfer of dioxin-like compounds in artificially matured European eels	Freese, M.; Sühring, R.; Marohn, L.; Pohlmann, J.-D.; Wolschke, H.; Byer, J.D.; Alaee, M.; Ebinghaus, R.; Hanel, R.	Environmental Pollution	227		348	356	2017	5,099	10.1016/j.envpol.2017.04.096	PACES II
47	Occurrence of carbazoles in dust and air samples from different locations in Germany	Fromme, H.; Mi, W.; Lahrz, T.; Kraft, M.; Aschenbrenner, B.; Bruessow, B.; Ebinghaus, R.; Xie, Z.; Fembacher, L.	Science of the Total Environment	610-611		412	418	2018	4,9	10.1016/j.scitotenv.2017.08.070	PACES II
48	Glacial-Interglacial changes and Holocene variations in Arabian Sea denitrification	Gaye, B., Böll, A., Segschneider, J., Burdanowitz, N., Emeis, K. C., Ramaswamy, V., Lahajnar, N., Lückge, A., Rixen, T.	Biogeosciences Discuss.			1	41	2017	3,851	10.5194/bg-2017-256	PACES II
49	Identifying culturally significant areas for marine spatial planning	Gee, K.; Kannen, A.; Adlam, R.; Brooks, C.; Chapman, M.; Cormier, R.; Fischer, C.; Fletcher, S.; Gubbins, M.; Shucksmith, R.; Shellock, R.	Ocean and Coastal Management	136		139	147	2017	1,861	10.1016/j.ocecoaman.2016.11.026	PACES II
50	Sensitivity model study of regional mercury dispersion in the atmosphere	Gencarelli, C.N.; Bieser, J.; Carbone, F.; De Simone, F.; Hedgecock, I.M.; Matthias, V.; Travnikov, O.; Yang, X.; Pirrone, N.	Atmospheric Chemistry and Physics	17	1	627	643	2017	5,318	10.5194/acp-17-627-2017	PACES II
51	Managing coastal risks at the Wadden Sea: a societal perspective	Gerkensmeier, B. Ratter, M. Vollmer, C. Walsh	Disaster Prevention and Management	27	1	15	27	2017	Scopus	10.1108/DPM-04-2017-0074	PACES II
52	Storm surge resilience and the Sendai Framework: Risk perception, intention to prepare and enhanced collaboration along the German North Sea coast	González-Riancho, P.; Gerkensmeier, B.; Ratter, B.M.W.	Ocean and Coastal Management	141		118	131	2017	1,861	10.1016/j.ocecoaman.2017.03.006	PACES II
53	Altimetry in a Regional Tropical Sea	Gourdeau, L., Djath B., A. Ganachaud, F. Nino, F. Birol, J. Verron, N. Fuller	IEEE Geoscience and Remote Sensing Magazine	5		44	52		2,676	doi : 10.1109/MGRS.2017.2679484	
54	Baltic sea wave conditions under climate change scenarios	Groll, N.; Grabemann, I.; Hünicke, B.; Meese, M.	Boreal Environment Research	22		1	12	2017	1,805	not available	PACES II
55	A multi-decadal wind-wave hindcast for the North Sea 1949–2014: coastDat2	Groll, N.; Weisse, R.	Earth Syst. Sci. Data	9		955	968	2017	6,696	10.5194/essd-9-955-2017	PACES II
56	Population dynamics, social resilience strategies, and Adaptive Cycles in early farming societies of SW Central Europe	Gronenborn, D.; Strien, H.-C.; Lemmen, C.	Quaternary International	446		54	65	2017	2,199	10.1016/j.quaint.2017.01.018	PACES II

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
57	The potential for dispersant use as a maritime oil spill response measure in German waters	Grote, M., van Bernem, C., Böhme, B., Callies, U., Calvez, I., Christie, B., Colcomb, K., Damian, H.-P. , Farke, H. , Gräbsch, C., Hunt, A., Höfer, T. , Knaack, J., Krätke, R. , Kraus, U., Le Floch, S., Le Lann, G., Leuchs, H. , Nagel, A., Nies, H., Nordhausen, W., Rauterberg, J., Reichenbach, D., Scheiffarth, G., Schwichtenberg, F., Theobald, N., Voß, J., Wahrendorf, D.-S.	Marine Pollution Bulletin	in press				2017	Scopus	10.1016/j.marpolbul.2017.10.050	PACES II
58	Temperature covariance in tree-ring reconstructions and model simulations over the past millennium.	Hartl-Meier, C.T.M., Büntgen, U., Smerdon, J.E., Zorita, E., Krusic, P.J., Ljungqvist, F.C., Schneider, L. and Esper, J.	Geophysical Research Letters					2017	4,253	10.1002/2017GL073239	PACES II
59	Measuring pH variability using an experimental sensor on an underwater glider	Hemming, M.P.; Kaiser, J.; Heywood, K.J.; Bakker, D.C.E.; Boutin, J.; Shitashima, K.; Lee, G.; Legge, O.; Onken, R.	Ocean Science	13	3	427	442	2017	2,821	10.5194/os-13-427-2017	PACES II
60	Anthropogenic nitrogen deposition alters growth responses of European beech (Fagus sylvativa L.) to climate change	Hess, C., Niemeyer, T., Fichtner, A., Jansen, K., Kunz, M., Maneke, M., von Wehrden, H., Quante, M., Walmsley, D., von Oheimb, G., Härdtle, W.	Environmental Pollution	23		92	98	2017	5,099	10.1016/j.envpol.2017.10.024	PACES II
61	The OLCI neural network swarm (ONNS): A bio-geo-optical algorithm for open ocean and coastal waters	Hieronymi, M.; Müller, D.; Doerffer, R.	Frontiers in Marine Science	4	MAY	140		2017	Scopus	10.3389/fmars.2017.00140	PACES II
62	Estuary-type circulation as a factor sustaining horizontal nutrient gradients in freshwater-influenced coastal systems	Hofmeister, R.; Flöser, G.; Schartau, M.	Geo-Marine Letters	37	2	179	192	2017	1,716	10.1007/s00367-016-0469-z	PACES II
63	Effects of air-sea coupling over the North Sea and the Baltic Sea on simulated summer precipitation over Central Europe	Ho-Hagemann, H.T.M.; Gröger, M.; Rockel, B.; Zahn, M.; Geyer, B.; Meier, H.E.M.	Climate Dynamics			1	26	2017	4,146	10.1007/s00382-017-3546-8	PACES II
64	Interactions between wind and tidally induced currents in coastal and shelf basins	Jacob, B.; Stanev, E.V.	Ocean Dynamics			1	19	2017	1,597	10.1007/s10236-017-1093-9	PACES II
65	Oxidation kinetics and inverse isotope effect of marine nitrite-oxidizing isolates.	Jacob, J., Nowka, B., Merten, V., Sanders, T., Spieck, E, Dähnke, K.	Aquatic Microbial Ecololgy	80		289	300	2017	1,633	10.3354/ame01859	
66	Pseudo-proxy tests of the analogue method to reconstruct spatially resolved global temperature during the common era	José Gómez-Navarro, J.; Zorita, E.; Raible, C.C.; Neukom, R.	Climate of the Past	13	6	629	648	2017	3,543	10.5194/cp-13-629-2017	PACES II
67	The PMIP4 contribution to CMIP6 – Part 3: the Last Millennium, Scientific Objective and Experimental Design for the PMIP4 past1000 simulations	Jungclaus, J. H., Bard, E., Baroni, M., Braconnot, P., Cao, J., Chini, L. P., Egorova, T., Evans, M., González-Rouco, J. F., Goosse, H., Hurtt, G. C., Joos, F., Kaplan, J. O., Khodri, M., Klein Goldewijk, K., Krivova, N., LeGrande, A. N., Lorenz, S. J., Luterbacher, J., Man, W., Meinshausen, M., Moberg, A., Nehrbass-Ahles, C., Otto-Bliesner, B. I., Phipps, S. J., Pongratz, J., Rozanov, E., Schmidt, G. A., Schmidt, H., Schmutz, W., Schurer, A., Shapiro, A. I., Sigl, M., Smerdon, J. E., Solanki, S. K., Timmreck, C., Toohey, M., Usoskin, I. G., Wagner, S., Wu, C.-Y., Yeo, K. L., Zanchettin, D., Zhang, Q. and Zorita, E.	Geosci. Model Dev.					2017	3,458	10.5194/gmd-2016-278	PACES II
68	Mechanisms of decadal sea-level trend variability in the Baltic Sea.	Karabil, S., Zorita, E. and Hünicke, B.	Earth Syst. Dynam.	8		131	146	2017	3,635	10.5194/esd-8-1031-2017	PACES II

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
69	Observations of asymmetric turbulent stirring in inner and marginal seas using satellite imagery	Karimova, S.	International Journal of Remote Sensing	38	6	1642	1664	2017	1,724	10.1080/01431161.2017.1285078	PACES II
70	Modelling the plankton groups of the deep, peri-alpine Lake Bourget	Kerimoglu, O.; Jacquet, S.; Vinçon-Leite, B.; Lemaire, B.J.; Rimet, F.; Soulignac, F.; Trévisan, D.; Anneville, O.	Ecological Modelling	359		415	433	2017	2,363	10.1016/j.ecolmodel.2017.06.005	PACES II
71	The acclimative biogeochemical model of the southern North Sea	Kerimoglu, Onur; Hofmeister, Richard; Maerz, Joeran; et al.	Biogeosciences	14	19	4499	4531	2017	WOS + Scopus	10.5194/bg-14-4499-2017	PACES II
72	Hydrography and circulation west of Sardinia in June 2014	Knoll, Michaela; Borrione, Ines; Fiekas, Heinz-Volker; et al.	Ocean Science	13	6	889	904	2017	WOS + Scopus	10.5194/os-13-889-2017	PACES II
73	Abrupt emergence of a large pockmark field in the German Bight, southeastern North Sea	Krämer, K.; Holler, P.; Herbst, G.; Bratek, A.; Ahmerkamp, S.; Neumann, A.; Bartholomä, A.; Van Beusekom, J.E.E.; Holtappels, M.; Winter, C.	Scientific Reports	7	1	5150		2017	4,259	10.1038/s41598-017-05536-1	PACES II
74	High frequency measurements of reach scale nitrogen uptake in a fourth order river with contrasting hydromorphology and variable water chemistry (Weiße Elster, Germany)	Kunz, J.V.; Hensley, R.; Brase, L.; Borchardt, D.; Rode, M.	Water Resources Research	53	1	328	343	2017	4,397	10.1002/2016WR019355	PACES II
75	Assessing PCB pollution in the Baltic Sea - An equilibrium partitioning based study	Lang, Susann-Cathrin Mayer, Philipp Hursthouse, Andrew Kötke, D., Hand, I., Schulz-Bull, D., Witt, G.	Chemosphere	191	Supple-ment C	886	894	2017	4,208	10.1016/j.chemosphere.2017.10.073	PACES II
76	Governance barriers to sustainable energy transitions – assessing Ireland's capacity towards marine energy futures	Lange, M.; O'Hagan, A.-M.; Devoy, R.; Le Tissier, M., Cummins, V.	Energy Policy	113		623	632	2017	4,14	10.1016/j.enpol.2017.11.020	PACES II
77	The role of life cycle processes on phytoplankton spring bloom composition: a modelling study applied to the Gulf of Finland	Lee, S., R. Hofmeister, I. Hense	Journal of Marine Systems	178		75	85		2,439	doi.org/10.1016/j.jmarsys.2017.10.010	
78	Uncertainty budgets for liquid waveguide CDOM absorption measurements	Lefering, I.; Röttgers, R.; Utschig, C.; McKee, D.	Applied Optics	56	22	6357	6366	2017	1,65	10.1364/AO.56.006357	PACES II
79	Added value of high-resolution regional climate model: selected cases over the Bohai Sea and the Yellow Sea areas	Li, D.	International Journal of Climatology	37	1	169	179	2017	3,76	10.1002/joc.4695	PACES II
80	Spatial Distribution and Seasonal Variation of Organophosphate Esters in Air above the Bohai and Yellow Seas, China	Li, J., Tang, J., Mi, W., Tian, C., Emeis, K.-C,., Ebinghaus, R., Xie, Z.	American Chemical Society	52	1	89	97	2017	6,198	10.1021/acs.est.7b03807	PACES II
81	Organophosphate Esters in Air, Snow, and Seawater in the North Atlantic and the Arctic	Li, J.; Xie, Z.; Mi, W.; Lai, S.; Tian, C.; Emeis, K.-C.; Ebinghaus, R.	Environmental Science and Technology	51	12	6887	6896	2017	6,198	10.1021/acs.est.7b01289	PACES II
82	Perfluorinated alkyl substances in serum of the southern Chinese general population and potential impact on thyroid hormones	Li, Y.; Cheng, Y.; Xie, Z.; Zeng, F.	Scientific Reports	7		43380		2017	4,259	10.1038/srep43380	PACES II
83	High-resolution global maps of 21st-century annual forest loss: Independent accuracy assessment and application in a temperate forest region of Atlantic Canada	Linke, J.; Fortin, M.-J.; Courtenay, S.; Cormier, R.	Remote Sensing of Environment	188		164	176	2017	6,262	10.1016/j.rse.2016.10.040	PACES II

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
84	Sedimentary rhythms in coastal dunes as a record of intra-annual changes in wind climate (Łeba, Poland)	Ludwig, J.; Lindhorst, S.; Betzler, C.; Bierstedt, S.E.; Borówka, R.K.	Aeolian Research	27		67	77	2017	2,298	10.1016/j.aeolia.2017.06.003	PACES II
85	A model study on the large-scale effect of macrofauna on the suspended sediment concentration in a shallow shelf sea	M.H. Nasermoaddeli, C. Lemmen, G. Stigge, O. Kerimoglu, H. Burchard, K. Klingbeil, R. Hofmeister, M. Kreus, K.W. Wirtz, F. Kösters	Estuarine, Coastal and Shelf Science						Scopus	doi.org/10.1016/j.ecss.2017.11.002	
86	Polycyclic aromatic hydrocarbons in ocean sediments from the North Pacific to the Arctic Ocean	Ma, Y.; Halsall, C.J.; Xie, Z.; Koetke, D.; Mi, W.; Ebinghaus, R.; Gao, G.	Environmental Pollution	227		498	504	2017	5,099	10.1016/j.envpol.2017.04.087	PACES II
87	Organophosphate Ester Flame Retardants and Plasticizers in Ocean Sediments from the North Pacific to the Arctic Ocean	Ma, Y.; Xie, Z.; Lohmann, R.; Mi, W.; Gao, G.	Environmental Science and Technology	51	7	3809	3815	2017	6,198	10.1021/acs.est.7b00755	PACES II
88	Can collective memories shape fish distributions? A test, linking space-time occurrence models and population demographics	Macdonald J.I., K. Logemann, E.T. Krainski, Þ. Sigurðsson, C.M. Beale, G. Huse,S. Hjøllo and G. Marteinsdóttir	Ecography	40		1	19	2017	Scopus	10.1111/ecog.03098	PACES II
89	Model study on the influence of plant design, photochemistry and meteorology on atmospheric concentrations of nitrosamines and nitramines in vicinity of an amine-based CO2 capture facility	Manzoor, S., Karl, M., Simperler, A., Korre, A.	International Journal of Greenhouse Gas Control	65		203	217	2017	3,741	10.1016/j.ijggc.2017.07.013	PACES II
90	Variation that can be expected when using particle tracking models in connectivity studies	Marc Hufnagl, Mark Payne, Geneviève Lacroix, Loes J. Bolle, Ute Daewel, Mark Dickey-Collas, Theo Gerkema, Martin Huret, Frank Janssen, Markus Kreus, Johannes Pätsch, Thomas Pohlmann, Piet Ruardij, Corinna Schrum, Morten D. Skogen, Meinard C.H. Tiessen, Pierre Petitgas, Jan K.L. van Beek, Henk W. van der Veer, Ulrich Callies	Journal of Sea Research	127		133	149	2017	1,888	10.1016/j.seares.2017.04.009	PACES II
91	Trend of atmospheric mercury concentrations at Cape Point for 1995-2004 and since 2007	Martin, L.G.; Labuschagne, C.; Brunke, E.-G.; Weigelt, A.; Ebinghaus, R.; Slemr, F.	Atmospheric Chemistry and Physics	17	3	2393	2399	2017	5,318	10.5194/acp-17-2393-2017	PACES II
92	Trend of atmospheric mercury concentrations at Cape Point for 1995–2004 and since 2007	Martin, Lynwill G. Labuschagne, Casper Brunke, E.-G., Weigelt, A., Ebinghaus, R., Slemr, F.	Atmospheric Chemistry and Physics	17	3	2393	2399	2017	5,318	10.5194/acp-17-2393-2017	PACES II
93	Intercomparison of Ocean Color Algorithms for Picophytoplankton Carbon in the Ocean	Martínez-Vicente, V., Evers-King, H., Roy, S., (...), Platt, T., Sathyendranath, S.	Frontiers in Marine Science	4				2017	Scopus	10.3389/fmars.2017.00378	PACES II
94	Fjord light regime: Bio-optical variability, absorption budget, and hyperspectral light availability in Sognefjord and Trondheimsfjord, Norway	Mascarenhas, V.J.; Voß, D.; Wollschlaeger, J.; Zielinski, O.	Journal of Geophysical Research: Oceans	122	5	3828	3847	2017	2,939	10.1002/2016JC012610	PACES II
95	On the comparability of knowledge transfer activities – a case study at the German Baltic Sea Coast focusing regional climate services	Meinke, I	Adv. Sci. Res.	14		145	151	2017	Proceeding	10.5194/asr-14-145-2017	PACES II
96	Stakeholder-based evaluation categories for regional climate services – a case study at the German Baltic Sea coast	Meinke, I	Adv. Sci. Res.	14		279	291	2017	Proceeding	10.5194/asr-14-279-2017	PACES II

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
97	Potential sources of variability in mesocosm experiments on the response of phytoplankton to ocean acidification	Moreno de Castro, M.; Schartau, M.; Wirtz, K.	Biogeosciences	14	7	1883	1901	2017	3,851	10.5194/bg-14-1883-2017	PACES II
98	Nitrate consumption in sediments of the German Bight (North Sea)	Neumann, A., van Beusekom, J.E.E., Holtappels, M., Emeis, K.-C.	Journal of Sea Research	127		26	35	2017	1,888	10.1016/j.seares.2017.06.012	PACES II
99	Full-coverage spatial distribution of epibenthic communities in the south-eastern North Sea in relation to habitat characteristics and fishing effort	Neumann, H.; Diekmann, R.; Emeis, K.-C.; Kleeberg, U.; Moll, A.; Kröncke, I.	Marine Environmental Research					2017	3,101	10.1016/j.marenvres.2017.07.010	PACES II
100	Drifter observations of submesoscale flow kinematics in the coastal ocean	Ohlmann, J.C.; Molemaker, M.J.; Baschek, B.; Holt, B.; Marmorino, G.; Smith, G.	Geophysical Research Letters	44	1	330	337	2017	4,235	10.1002/2016GL071537	PACES II
101	Validation of an ocean shelf model for the prediction of mixed-layer properties in the Mediterranean Sea west of Sardinia	Onken, R.	Ocean Science	13	2	235	257	2017	2,821	10.5194/os-13-235-2017	PACES II
102	An evaluation of the North Sea circulation in global and regional models relevant for ecosystem simulations	Patsch, J.; Burchard, H.; Dieterich, C.; Grawe, U.; Groger, M.; Mathis, M.; Kapitza, H.; Bersch, M.; Moll, A.; Pohlmann, T.; Su, J.; Ho-Hagemann, H.T.M.; Schulz, A.; Elizalde, A.; Eden, C.	Ocean Modelling	116		70	95	2017	3,341	10.1016/j.ocemod.2017.06.005	PACES II
103	Time Series Methods Applied to Climate Change	Perron, P. and Zorita, E.	Journal of Time Series Analysis	38	5	639		2017	0,975	10.1111/jtsa.12248	PACES II
104	Competing knowledge systems and adaptability to sea-level rise in The Bahamas	Petzold, J.; Ratter, B.M.W.; Holdschlag, A.	Area					2017	1,755	10.1111/area.12355	PACES II
105	Pseudo-proxy evaluation of climate field reconstruction methods of North Atlantic climate based on an annually resolved marine proxy network,	Pyrina, M., Wagner, S., and Zorita, E.	Climate of the Past	13		1339	1354	2017	3,543	10.5194/cp-13-1339-2017	PACES II
106	Evaluation of CMIP5 models over the northern North Atlantic in the context of forthcoming paleoclimatic reconstructions	Pyrina, M.; Wagner, S.; Zorita, E.	Climate Dynamics			1	19	2017	4,146	10.1007/s00382-017-3536-x	PACES II
107	Towards cost-effective operational monitoring systems for complex waters: Analyzing small-scale coastal processes with optical transmissometry	Ramírez-Pérez, M.; Gonçalves-Araujo, R.; Wiegmann, S.; Torrecilla, E.; Bardaji, R.; Röttgers, R.; Bracher, A.; Piera, J.	PLoS ONE	12	1	e0170706		2017	2,806	10.1371/journal.pone.0170706	PACES II
108	Forecast skill score assessment of a relocatable ocean prediction system, using a simplified objective analysis method	Reiner Onken	Ocean Science	13	6	925	945	2017	WOS + Scopus	10.5194/os-13-925-2017	PACES II
109	A fully automated simultaneous single-stage separation of Sr, Pb, and Nd using DGA Resin for the isotopic analysis of marine sediments	Retzmann, A.; Zimmermann, T.; Pröfrock, D.; Prohaska, T.; Irrgeher, J.	Analytical and Bioanalytical Chemistry	409	23	5463	5480	2017	3,431	10.1007/s00216-017-0468-6	PACES II
110	Applicability of SAR-based wave retrieval for wind–wave interaction analysis in the fetch-limited Baltic	Rikka, S.; Uiboupin, R.; Alari, V.	International Journal of Remote Sensing	38	3	906	922	2017	1,724	10.1080/01431161.2016.1271472	PACES II
111	Open-channel measurement of denitrification in a large lowland river	Ritz, S., Dähnke, K., Fischer, H.	Aquatic Sciences	80	1			2017	2,821	10.1007/s00027-017-0560-1	PACES II

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
112	HF Radar Activity in European Coastal Seas: Next Steps toward a Pan-European HF Radar Network	Rubio A, Mader J, Corgnati L, Mantovani C, Griffa A, Novellino A, Quentin C, Wyatt L, Schulz-Stellenfleth J, Horstmann J, Lorente P, Zambianchi E, Hartnett M, Fernandes C, Zervakis V, Gorringe P, Melet A and Puillat I	Front. Mar. Sci.	4	8			2017	Scopus	10.3389/fmars.2017.00008	PACES II
113	Hot Spots of Nitrification in the Elbe Estuary and Their Impact on Nitrate Regeneration	Sanders, T.; Schöl, A.; Dähnke, K.	Estuaries and Coasts			1	11	2017	2,182	10.1007/s12237-017-0264-8	PACES II
114	Does Spectral Nudging Have an Effect on Dynamical Downscaling Applied in Small Regional Model Domains?	Schaaf, B., H. von Storch, and F. Feser	Monthly Weather Review	145		4303	4311	2017	3,043	10.1175/MWR-D-17-0087.1	PACES II
115	Wave-current interactions in the southern North Sea: The impact on salinity	Schloen, J.; Stanev, E.V.; Grashorn, S.	Ocean Modelling	111		19	37	2017	3,341	10.1016/j.ocemod.2017.01.003	PACES II
116	Optimal spectral nudging for global dynamic downscaling	Schubert-Frisius, M.; Feser, F.; von Storch, H.; Rast, S.	Monthly Weather Review	145	3	909	927	2017	3,043	10.1175/MWR-D-16-0036.1	PACES II
117	Turbulence and Mixing in a Shallow Shelf Sea From Underwater Gliders	Schultze, Larissa K. P.; Merckelbach, Lucas M.; Carpenter, Jeffrey R.	Journal of Geophysical Research-Oceans	122	11	9092	9109	2017	WOS + Scopus	10.1002/2017JC012872	PACES II
118	Direct and semi-direct effects of aerosol climatologies on long-term climate simulations over Europe	Schultze, M.; Rockel, B.	Climate Dynamics			1	24	2017	4,146	10.1007/s00382-017-3808-5	PACES II
119	Properties of individual contrails: A compilation of observations and some comparisons	Schumann, U.; Baumann, R.; Baumgardner, D.; Bedka, S.T.; Duda, D.P.; Freudenthaler, V.; Heymsfield, A.J.; Minnis, P.; Quante, M.; Raschke, E.; Schlager, H.; Vázquez-Navarro, M.; Voigt, C.; Wang, Z.	Atmospheric Chemistry and Physics	17	1	403	438	2017	5,318	10.5194/acp-17-403-2017	PACES II
120	Effects of chemical dispersants on oil spill drift paths in the German Bight—probabilistic assessment based on numerical ensemble simulations	Schwichtenberg, F.; Callies, U.; Groll, N.; Maßmann, S.	Geo-Marine Letters	37	2	163	170	2017	1,716	10.1007/s00367-016-0454-6	PACES II
121	Residence times in shallow waters help explain regional differences in Wadden Sea eutrophication	Schwichtenberg, F.; Callies, U.; van Beusekom, J.E.E.	Geo-Marine Letters	37	2	171	177	2017	1,716	10.1007/s00367-016-0482-2	PACES II
122	Spatial variability of the Arctic Ocean's double-diffusive staircase	Shibley, N.C.; Timmermans, M.-L.; Carpenter, J.R.; Toole, J.M.	Journal of Geophysical Research: Oceans	122	2	980	994	2017	2,939	10.1002/2016JC012419	PACES II
123	Coexistence of competitors mediated by nonlinear noise	Siekmann, I.; Bengfort, M.; Malchow, H.	European Physical Journal: Special Topics	226	9	2157	2170	2017	1,862	10.1140/epjst/e2017-70038-6	PACES II
124	Modelling benthic macrofauna and seagrass distribution patterns in a North Sea tidal basin in response to 2050 climatic and environmental scenarios	Singer, A.; Millat, G.; Staneva, J.; Kröncke, I.	Estuarine, Coastal and Shelf Science	188		99	108	2017	2,176	10.1016/j.ecss.2017.02.003	PACES II
125	Direct oceanic emissions unlikely to account for the missing source of atmospheric carbonyl sulfide	Sinikka T. Lennartz, Christa A. Marandino, Marc von Hobe, Pau Cortes, Birgit Quack, Rafel Simo, Dennis Booge, Andrea Pozzer, Tobias Steinhoff, Damian L. Arevalo-Martinez, Corinna Kloss, Astrid Bracher, Rüdiger Röttgers, Elliot Atlas and Kirstin Krüger	Atmos. Chem. Phys.	17		385	402		5,318	10.5194/acp-17-385-2017	PACES II

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
126	Evaluation and error apportionment of an ensemble of atmospheric chemistry transport modeling systems: Multivariable temporal and spatial breakdown	Solazzo, E.; Bianconi, R.; Hogrefe, C.; Curci, G.; Tuccella, P.; Alyuz, U.; Balzarini, A.; Baro, R.; Bellasio, R.; Bieser, J.; Brandt, J.; Christensen, J.H.; Colette, A.; Francis, X.; Fraser, A.; Garcia Vivanco, M.; Jiménez-Guerrero, P.; Im, U.; Manders, A.; Nopmongcol, U.; Kitwiroon, N.; Pirovano, G.; Pozzoli, L.; Prank, M.; Sokhi, R.S.; Unal, A.; Yarwood, G.; Galmarini, S.	Atmospheric Chemistry and Physics	17	4	3001	3054	2017	5,318	10.5194/acp-17-3001-2017	PACES II
127	Proteins and Amino Acids in Fine Particulate Matter in Rural Guangzhou, Southern China: Seasonal Cycles, Sources, and Atmospheric Processes	Song, T.; Wang, S.; Zhang, Y.; Song, J.; Liu, F.; Fu, P.; Shiraiwa, M.; Xie, Z.; Yue, D.; Zhong, L.; Zheng, J.; Lai, S.	Environmental Science and Technology	51	12	6773	6781	2017	6,198	10.1021/acs.est.7b00987	PACES II
128	Five-year records of mercury wet deposition flux at GMOS sites in the Northern and Southern hemispheres	Sprovieri, F.; Pirrone, N.; Bencardino, M.; D'Amore, F.; Angot, H.; Barbante, C.; Brunke, E.-G.; Arcega-Cabrera, F.; Cairns, W.; Comero, S.; Del Carmen Diéguez, M.; Dommergue, A.; Ebinghaus, R.; Bin, Feng, X.; Fu, X.; Elizabeth Garcia, P.; Manfred Gawlik, B.; Hageström, U.; Hansson, K.; Horvat, M.; Kotnik, J.; Labuschagne, C.; Magand, O.; Martin, L.; Mashyanov, N.; Mkololo, T.; Munthe, J.; Obolkin, V.; Ramirez Islas, M.; Sena, F.; Somerset, V.; Spandow, P.; Vardè, M.; Walters, C.; Wängberg, I.; Weigelt, A.; Yang, X.; Zhang, H.	Atmospheric Chemistry and Physics	17	4	2689	2708	2017	5,318	10.5194/acp-17-2689-2017	PACES II
129	Cascading ocean basins: numerical simulations of the circulation and interbasin exchange in the Azov-Black-Marmara-Mediterranean Seas system	Stanev, E.V.; Grashorn, S.; Zhang, Y.J.	Ocean Dynamics	67	8	1003	1025	2017	1,597	10.1007/s10236-017-1071-2	PACES II
130	Water intrusions and particle signatures in the Black Sea: a Biogeochemical-Argo float investigation	Stanev, E.V.; Grayek, S.; Claustre, H.; Schmechtig, C.; Poteau, A.	Ocean Dynamics	67	9	1119	1136	2017	1,597	10.1007/s10236-017-1077-9	PACES II
131	Effects of wave-induced forcing on a circulation model of the North Sea	Staneva, J.; Alari, V.; Breivik, Ø.; Bidlot, J.-R.; Mogensen, K.	Ocean Dynamics	67	1	81	101	2017	1,597	10.1007/s10236-016-1009-0	PACES II
132	Assessing uncertainties in scattering correction algorithms for reflective tube absorption measurements made with a WET Labs ac-9	Stockley, Nicole D.; Roettgers, Ruediger; McKee, David; et al.	Optics Express	25	24	A1139	A1153	2017	WOS + Scopus	10.1364/OE.25.0A1139	PACES II
133	Video-Based Estimation of Surface Currents Using a Low-Cost Quadcopter	Stresser, Michael; Carrasco, Ruben; Horstmann, Jochen	IEEE GEOSCIENCE AND REMOTE SENSING LETTERS	14	11	2027	2031	2017	WOS + Scopus	10.1109/LGRS.2017.2749120	PACES II
134	Harvesting energy: Place and local entrepreneurship in community-based renewable energy transition	Süsser, D.; Döring, M.; Ratter, B.M.W.	Energy Policy	101		332	341	2017	4,14	10.1016/j.enpol.2016.10.018	PACES II
135	'Renewables? Yes, please!': perceptions and assessment of community transition induced by renewable-energy projects in North Frisia	Süsser, D.; Kannen, A.	Sustainability Science	12	4	563	578	2017	3,429	10.1007/s11625-017-0433-5	PACES II
136	Undervalued and under pressure: A plea for greater attention toward regulating ecosystem services	Sutherland, I.J.; Villamagna, A.M.; Dallaire, C.O.; Bennett, E.M.; Chin, A.T.M.; Yeung, A.C.Y.; Lamothe, K.A.; Tomscha, S.A.; Cormier, R.	Ecological Indicators					2017	3,898	10.1016/j.ecolind.2017.06.047	PACES II

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
137	Can we predict phytoplankton community size structure using size scalings of eco-physiological traits?	Taherzadeh, N.; Kerimoglu, O.; Wirtz, K.W.	Ecological Modelling	360		279	289	2017	2,363	10.1016/j.ecolmodel.2017.07.008	PACES II
138	Chlorophyll-A specific volume scattering function of phytoplankton	Tan, H.; Oishi, T.; Tanaka, A.; Doerffer, R.; Tan, Y.	Optics Express	25	12	A564	A573	2017	3,307	10.1364/OE.25.00A564	PACES II
139	Isotope pattern deconvolution of different sources of stable strontium isotopes in natural systems	Tchaikovsky, A., Irrgeher, J., Zitek, A., Prohaska, T.	Journal of Analytical Atomic Spectrometry	32	11	2300	2307	2017	3,379	10.1039/C7JA00251C	PACES II
140	Multi-model study of mercury dispersion in the atmosphere: Atmospheric processes and model evaluation	Travnikov, O.; Angot, H.; Artaxo, P.; Bencardino, M.; Bieser, J.; D'Amore, F.; Dastoor, A.; De Simone, F.; Dléguez, M.C.; Dommergue, A.; Ebinghaus, R.; Bin Feng, X.; Gencarelli, C.N.; Hedgecock, I.M.; Magand, O.; Martin, L.; Matthias, V.; Mashyanov, N.; Pirrone, N.; Ramachandran, R.; Alana Read, K.; Ryjkov, A.; Selin, N.E.; Sena, F.; Song, S.; Sprovieri, F.; Wip, D.; Wängberg, I.; Yang, X.	Atmospheric Chemistry and Physics	17	8	5271	5295	2017	5,318	10.5194/acp-17-5271-2017	PACES II
141	Quantitative and Qualitative Analysis of Three Classes of Sulfur Compounds in Crude Oil	Vetere, A.; Pröfrock, D.; Schrader, W.	Angewandte Chemie - International Edition	56	36	10933	10937	2017	11,994	10.1002/anie.201703205	PACES II
142	Joint analysis of deposition fluxes and atmospheric concentrations of inorganic nitrogen and sulphur compounds predicted by six chemistry transport models in the frame of the EURODELTAIII project	Vivanco, M.G.; Bessagnet, B.; Cuvelier, C.; Theobald, M.R.; Tsyro, S.; Pirovano, G.; Aulinger, A.; Bieser, J.; Calori, G.; Ciarelli, G.; Manders, A.; Mircea, M.; Aksoyoglu, S.; Briganti, G.; Cappelletti, A.; Colette, A.; Couvidat, F.; D'Isidoro, M.; Kranenburg, R.; Meleux, F.; Menut, L.; Pay, M.T.; Rouïl, L.; Silibello, C.; Thunis, P.; Ung, A.	Atmospheric Environment	151		152	175	2017	3,629	10.1016/j.atmosenv.2016.11.042	PACES II
143	Models, manifestation and attribution of climate change	von Storch, H.; Bray, D.	METEOROLOGY HYDROLOGY AND WATER MANAGEMENT-RESEARCH AND OPERATIONAL APPLICATIONS	5	1	47	52	2017	ESCI	10.26491/mhwm/67388	PACES II
144	Regional reanalysis without local data: Exploiting the downscaling paradigm	von Storch, H.; Feser, F.; Geyer, B.; Klehmet, K.; Li, D.; Rockel, B.; Schubert-Frisius, M.; Tim, N.; Zorita, E.	Journal of Geophysical Research: Atmospheres	122	16	8631	8649	2017	3,454	10.1002/2016JD026332	PACES II
145	Regional variability and seasonality of particle fluxes and modelled chlorophyll standing stocks in the Benguela Upwelling System	Vorrath, M. E., Lahajnar, N., Fischer, G., Schmidt, M., Libuku, V., Emeis, K.	Marine Systems	in press				2017	2,439		PACES II
146	Spatiotemporal variation of vertical particle fluxes and modelled chlorophyll a standing stocks in the Benguela Upwelling System	Vorrath, M. E., Lahajnar, N., Fischer, G., Schmidt, M., Libuku, V., Emeis, K.	Marine Systems	in press				2017	2,439	10.1016/j.jmarsys.2017.12.002	PACES II
147	Extreme flood impact on estuarine and coastal biogeochemistry: The 2013 Elbe flood	Voynova, Y.G.; Brix, H.; Petersen, W.; Weigelt-Krenz, S.; Scharfe, M.	Biogeosciences	14	3	541	557	2017	3,851	10.5194/bg-14-541-2017	PACES II
148	An atmosphere–wave regional coupled model: Improving predictions of wave heights and surface winds in the southern North Sea	Wahle, K.; Staneva, J.; Koch, W.; Fenoglio-Marc, L.; Ho-Hagemann, H.T.M.; Stanev, E.V.	Ocean Science	13	2	289	301	2017	2,821	10.5194/os-13-289-2017	PACES II

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	DOI	HGF-Programme
149	Internal and external forcing of multidecadal Atlantic climate variability over the past 1,200 years	Wang, J.; Yang, B.; Ljungqvist, F.C.; Luterbacher, J.; Osborn, T.J.; Briffa, K.R.; Zorita, E.	Nature Geoscience	10	7	512	517	2017	13,941	10.1038/ngeo2962	PACES II
150	Baltic Sea extreme sea levels 1948-2011: Contributions from atmospheric forcing	Weisse, R; Weidemann, H.	Proc. IUTAM	25		65	69	2017	Proceeding	10.1016/j.piutam.2017.09.010	PACES II
151	The COSMO-CLM 4.8 regional climate model coupled to regional ocean, land surface and global earth system models using OASIS3-MCT: description and performance	Will, A.; Akhtar, N.; Brauch, J.; Breil, M.; Davin, E.; Ho-Hagemann, H.T.M.; Maisonnave, E.; Thurkow, M.; Weiher, S	GEOSCIENTIFIC MODEL DEVELOPMENT	10	4	1549	1586	2017	3,458	10.5194/gmd-10-1549-2017	PACES II
152	Phytoplankton group identification using simulated and in situ hyperspectral remote sensing reflectance	Xi, H.; Hieronymi, M.; Krasemann, H.; Röttgers, R.	Frontiers in Marine Science	4	AUG	272		2017	Scopus	10.3389/fmars.2017.00272	PACES II
153	Per- and poly-fluoroalkyl substances (PFASs) in the urban, industrial, and background atmosphere of Northeastern China coast around the Bohai Sea: Occurrence, partitioning, and seasonal variation	Yao, Y., Chang, S., Zhao, Y., Tang, J., Sun, H., Xie, Z	Atmospheric Environment	167		150	158	2017	3,629	10.1016/j.atmosenv.2017.08.023	PACES II
154	The relationship between Arabian Sea upwelling and Indian Monsoon revisited in a high resolution ocean simulation	Yi, X.; Hünicke, B.; Tim, N.; Zorita, E.	Climate Dynamics			1	13	2017	4,146	10.1007/s00382-017-3599-8	PACES II
155	Variations of the Organic Matter Composition in the Sea Surface Microlayer: A Comparison between Open Ocean, Coastal, and Upwelling Sites Off the Peruvian Coast	Zaencker, Birthe; Bracher, Astrid; Roettgers, Ruediger; et al.	Frontiers in Microbiology	8				2017	WOS + Scopus	10.3389/fmicb.2017.02369	PACES II
156	Mutual dependence between sedimentary organic carbon and infaunal macrobenthos resolved by mechanistic modeling	Zhang W. & Wirtz K.	Journal of Geophysical Research: Biogeosciences	122				2017	3,395	10.1002/2017JG003909	PACES II
157	Toward downscaling oceanic hydrodynamics – suitability of a high-resolution OGCM for describing regional ocean variability in the South China Sea	Zhang, M.; von Storch, H.	Oceanologia	59	2	166	176	2017	1,5	10.1016/j.oceano.2017.01.001	PACES II
158	Perfluoroalkyl and polyfluoroalkyl substances in the lower atmosphere and surface waters of the Chinese Bohai Sea, Yellow Sea, and Yangtze River estuary	Zhao, Z.; Tang, J.; Mi, L.; Tian, C.; Zhong, G.; Zhang, G.; Wang, S.; Li, Q.; Ebinghaus, R.; Xie, Z.; Sun, H.	Science of the Total Environment	599-600		114	123	2017	4,9	10.1016/j.scitotenv.2017.04.147	PACES II
159	From headwaters to estuary: Distribution and fate of halogenated flame retardants (HFRs) in a river basin near the largest HFR manufacturing base in China.	Zhen. X., Tang, J., liu, L., Wang, X., Li, Y., Xie, Z.	Science of the Total Environment	in press				2017	4,9	10.1016/j.scitotenv.2017.10.091	PACES II
160	Occurrences and distribution characteristics of organophosphate ester flame retardants and plasticizers in the sediments of the Bohai and Yellow Seas, China	Zhong, M., Wu, H., Mi, W., Li, F., Ji, C., Ebinghaus, R., Tang, J. Xie, Zhiyong	Science of The Total Environment	615		1305	1311	2017	4,9	10.1016/j.scitotenv.2017.09.272	PACES II

No.	Title	Authors	Source	Volume	Issue	Beginpage	Endpage	Year	Impact-Factor	DOI	HGF-Programme
1	The South Atlantic Anticyclone as a key player for the representation of the tropical Atlantic climate in coupled climate models	Cabos W., Sein D.V., Pinto J.G., Fink A.H., Koldunov N.V., Alvarez F., Izquierdo A., Keenlyside N., Jacob D.	Climate Dynamics	48	11	1	19	2017	Scopus	10.1007/s00382-016-3319-9	PACES II / GERICS
2	Assessing the effectiveness of Multi-Sector Partnerships to manage droughts: The case of the Jucar river basin	Carmona, M.; Máñez Costa, M.; Andreu, J.; Pulido-Velazquez, M.; Haro-Monteagudo, D.; Lopez-Nicolas, A.; Cremades, R.	Earth's Future	5	7	750	770	2017	4.938	10.1002/2017EF000545	PACES II / GERICS
3	Natural Assurance Scheme: A level playing field framework for Green-Grey infrastructure development	Denjean, B.; Denjean, B.; Altamirano, M.A.; Graveline, N.; Giordano, R.; Van der Keur, P.; Moncoulon, D.; Weinberg, J.; Máñez Costa, M.; Kozinc, Z.; Mulligan, M.; Pengal, P.; Matthews, J.; van Cauwenbergh, N.; López Gunn, E.; Bresch, D.N.; Denjean, B.	Environmental Research	159		24	38	2017	5.099	10.1016/j.envres.2017.07.006	PACES II / GERICS
4	On the added value of the regional climate model REMO in the assessment of climate change signal over Central Africa	Fotso-Nguemo, T.C., Vondou, D.A., Pokam, W.M., Djomou, Z.M., Diallo, I. ,Haensler A., Djiotang Tchotchou, L.A., Kamsu-Tamo, P.H., Gaye, A.T., Tchawoua, C.	Climate Dynamics			1	26	2017	4.146	10.1007/s00382-017-3547-7	PACES II / GERICS
5	Klimaverhandlungen: Solide Ergebnisse, neue Dynamik	Groth, M.	Wirtschaftsdienst – Zeitschrift für Wirtschaftspolitik	97	12	832	832	2017	Scopus	10.1007/s10273-017-2223-1	PACES II / GERICS
6	Stromnetzausbau: Mehr als nur Übertragungsnetze	Groth, M.	Wirtschaftsdienst: Zeitschrift für Wirtschaftspolitik	97	5	313	314	2017	Scopus		PACES II / GERICS
7	Deriving user-informed climate information from climate model ensemble results	Huebener, H.; Hoffmann, P.; Keuler, K.; Pfeifer, S.; Ramthun, H.; Spekat, A.; Steger, C.; Warrach-Sagi, K.	ADVANCES IN SCIENCE AND RESEARCH	14		261	269	2017	0	10.5194/asr-14-261-2017	PACES II / GERICS
8	IMPACT2C – An introduction	Jacob, D. & Solman, S.	Climate Services	7		1	2	2017	Scopus	10.1016/j.cliser.2017.07.006	PACES II / GERICS
9	Extremereignisse in der Zukunft - Welche Aussagen sind durch Klimaprojektionen möglich?	Jacob, D.; Bender, S.	GWF, Wasser - Abwasser	158	7-8	85	88	2017	Scopus	not available	PACES II / GERICS
10	Land-atmosphere coupling in EURO-CORDEX evaluation experiments	Knist, S.; Goergen, K.; Buonomo, E.; Christensen, O.B.; Colette, A.; Cardoso, R.M.; Fealy, R.; Fernández, J.; García-Díez, M.; Jacob, D.; Kartsios, S.; Katragkou, E.; Keuler, K.; Mayer, S.; van, Meijgaard, E.; Nikulin, G.; Soares, P.M.M.; Sobolowski, S.; Szepszo, G.; Teichmann, C.; Vautard, R.; Warrach-Sagi, K.; Wulfmeyer, V.; Simmer, C.	Journal of Geophysical Research: Atmospheres	122	1	79	103	2017	3.454	10.1002/2016JD025476	PACES II / GERICS
11	The first Climateurope Festival: climate information at your service	Kotova, L.; Manez Costa, M.; Rodriguez Perez, M.J.; Whiffin, F.; Garrett, N.; Bessembinder, J.; Buonocore, M.; Newton, P.; Hewitt, C	Climate Services	6		80	81	2017	Scopus	10.1016/j.cliser.2017.07.005)	PACES II / GERICS
12	A dynamic systems approach to the representation of policy implementation processes in a multi-actor world	Kovalevsky, D.V.; Hewitt, R.; de Boer, C.; Hasselmann, K.	Discontinuity, Nonlinearity, and Complexity	6	3	219	245	2017	Scopus	10.5890/DNC.2017.09.001	PACES II / GERICS
13	How to shape climate risk policies after the Paris agreement? The importance of perceptions as a driver for climate risk management	Manez Costa M; Shreve, C.; Carmona, M.	Earth's Future					2017	4.938	10.1002/2017EF000597	PACES II / GERICS

No.	Title	Authors	Source	Volume	Issue	Beginpage	Endpage	Year	Impact-Factor	DOI	HGF-Programme
14	Risk reduction partnerships for assessing and enhancing resilience of railway transport infrastructure in an alpine environment	Otto, A., P. Kellermann, A.H. Thieken, M. Máñez Costa, M. Carmona, P. Bubeck	Earth's Future					2017	4.938		PACES II / GERICS
15	Decadal and multi-year predictability of the West African monsoon and the role of dynamical downscaling	Paeth, H.; Paxian, A.; Sein, D.; Jacob, D.; Panitz, H. J.; Warscher, M.; Fink, A.; Kunstmann, H.; Breil, M.; Engel, T.; Krause, A.; Tödter, J.; Ahrens, B.	Meteorologische Zeitschrift					2017	1.989	10.1127/metz/2017/0811	PACES II / GERICS
16	The IMPACT2C web-atlas – Conception, organization and aim of a web-based climate service product	Preuschmann, S.; Haensler, A.; Kotova, L.; Duerk, N.; Eibner, W.; Waidhofer, C.; Haselberger, C.; Jacob, D	Climate Services	7		115	127	2017	Scopus	10.1016/j.cliser.2017.03.005	PACES II / GERICS
17	Future Changes in European Severe Convection Environments in a Regional Climate Model Ensemble	Púčik, T.; Groenemeijer, P.; Rädler, A. T.; Tijssen, L.; Nikulin, G.; Prein, A. F.; van Meijgaard, E.; Fealy, R.; Jacob, D. & Teichmann, C.	Journal of Climate	30		6771	6794	2017	Scopus	10.1175/JCLI-D-16-0777.1	PACES II / GERICS
18	EVALUATING CO-CREATION OF KNOWLEDGE: From Quality Criteria and Indicators to Methods	Schuck-Zöller, S, Cortekar, J., Jacob, D.	Advances in Science and Research					2017	Proceeding		PACES II / GERICS
19	Advection on Cut-Cell Grids for an Idealized Mountain of Constant Slope	Steppeler, J.; Klemp, J.B.	Monthly Weather Review	145	5	1765	1777	2017	3,043	10.1175/MWR-D-16-0308.1	PACES II / GERICS
20	Developing climate information portals with users: Promises and pitfalls	Swart, R.J., K. de Bruin, S. Dhenain, G. Dubois, A. Groot, E. von der Forst	Climate Services					2017	Scopus	10.1016/j.cliser.2017.06.008	PACES II / GERICS
21	The 5th International Conference on Climate Services (ICCS5) – 'Innovation in Climate Services and Capacity Building'	Viktor, E.; Ehlert, S.; Haensler, A.; Guillén Bolaños, T.; Blome, T.; Máñez Costa, M.	Climate Services	5		1	2	2017	Scopus		PACES II / GERICS
22	Evaluation of simulations with the regional climate model REMO over Central Africa and the effect of increased spatial resolution	Vondou, D.A, Haensler, A.	International Journal of Climatology					2017	Scopus		PACES II / GERICS
23	Sensitivity of the atmospheric water cycle to corrections of the sea surface temperature bias over southern Africa in a regional climate model	Weber, T., Haensler, A., Jacob, D.	Climate Dynamics	First online		1	15	2017	4.146	10.1007/s00382-017-4052-8	PACES II / GERICS
24	Towards an assessment of adaptive capacity of the European agricultural sector to droughts	Williges, K., Mechler, R., Bowyer, P., and Balkovic, J.	Climate Services	7		47	63	2017	Scopus	10.1016/j.cliser.2016.10.003	PACES II / GERICS