

Lfd. Nr.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact Factor	HGF-Programme
1	Isoporous Block Copolymer Membranes	Abetz, Volker	MACROMOLECULAR RAPID COMMUNICATIONS	36	1	10	22	2015	4.941	AEM
2	Microstructure and mechanical performance of metal-composite hybrid joints produced by FricRiveting	Altmeyer, J., Suhuddin, U.F.H., Dos Santos, J.F., Amancio-Filho, S.T.	Composites Part B: Engineering	81		130	140	2015	Scopus	AEM
3	Identification of large channels in cationic PEGylated cubosome nanoparticles by synchrotron radiation SAXS and Cryo-TEM imaging	Angelov, Borislav; Angelova, Angelina; Drechsler, Markus; Garamus, Vasil M.; Mutafchieva, Rada; Lesieur, Sylviane	SOFT MATTER	11	18	3686	3692	2015	4.029	AEM / MML
4	Role of alloyed Nd in the microstructure and atmospheric corrosion of as-cast magnesium alloy AZ91	Arrabal, R., Mingo, B., Pardo, A., Matykina, E., Mohedano, M., Merino, M.C., Rivas, A., Maroto, A.	Corrosion Science	97		38	48	2015	4.422	AEM
5	Characterization and wear behaviour of PEO coatings on 6082-T6 aluminium alloy with incorporated alpha-Al ₂ O ₃ particles	Arrabal, R.; Mohedano, M.; Matykina, E.; Pardo, A.; Mingo, B.; Merino, M. C.	SURFACE & COATINGS TECHNOLOGY	269		64	73	2015	1.998	AEM
6	Controlled drug release from antibiotic-loaded layered double hydroxide coatings on porous titanium implants in a mouse model	Badar, Muhammad; Rahim, Muhammad Imran; Kieke, Marc; Ebel, Thomas; Rohde, Manfred; Hauser, Hansjoerg; Behrens, Peter; Mueller, Peter P.	JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A	103	6	2141	2149	2015	3.369	AEM
7	Phase transformation kinetics during continuous heating of a beta-quenched Ti-10V-2Fe-3Al alloy	Barriobero-Vila, Pere; Requena, Guillermo; Warchomicka, Fernando; Stark, Andreas; Schell, Norbert; Buslaps, Thomas	JOURNAL OF MATERIALS SCIENCE	50	3	1412	1426	2015	2.371	AEM / MML
8	On the thermomechanical coupling in dissipative materials: A variational approach for generalized standard materials	Bartels, A., Bartel, T., Canadija, M., Mosler, J.	Journal of the Mechanics and Physics of Solids	82		218	234	2015	3.598	AEM
9	Influence of Iridium on the Properties of gamma'-Strengthened Co-Base Superalloys	Bauer, Alexander; Neumeier, Steffen; Pyczak, Florian; Goeken, Mathias	ADVANCED ENGINEERING MATERIALS	17	6	748	754	2015	1.703	AEM
10	Design, sorption behaviour and energy management in a sodium alanate-based lightweight hydrogen storage tank	Bellosta Von Colbe, J.M., Lozano, G., Metz, O., Bücherl, T., Bormann, R., Klassen, T., Dornheim, M.	International Journal of Hydrogen Energy	40	7	2984	2988	2015	3.313	AEM
11	Friction Riveting (FricRiveting) as a new joining technique in GFRP lightweight bridge construction	Blaga, L.; dos Santos, J. F.; Bancila, R.; Amancio-Filho, S. T.	CONSTRUCTION AND BUILDING MATERIALS	80		167	179	2015	2.296	AEM
12	Plasma electrolytic oxidation/micro-arc oxidation of magnesium and its alloys	Blawert, C., Sah, S.P., Scharnagl, N., Kannan, M.B.	Surface Modification of Magnesium and its Alloys for Biomedical Applications	2		193	234	2015	1.642	AEM
13	Scattering influences in quantitative fission neutron radiography for the in situ analysis of hydrogen distribution in metal hydrides	Boerries, S.; Metz, O.; Pranzas, P. K.; Buecherl, T.; Soellradl, S.; Dornheim, M.; Klassen, T.; Schreyer, A.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	797		158	164	2015	1.216	AEM / MML

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14	The microstructure and texture development during twin-roll casting and rolling of magnesium alloy AZ31	Bohlen, J., Yi, S., Viktoria-Hernández, J., Schell, N., Schwabke, B., Brokmeier, H.-G., Kurz, G., and Letzig, D.	TMS 2015 Conference Proceedings of the 144th Annual Meeting of the Minerals, Metals, and Materials Society			471	476	2015	Proceedings	AEM
15	Calcium and zirconium as texture modifiers during rolling and annealing of magnesium-zinc alloys	Bohlen, Jan; Wendt, Joachim; Nienaber, Maria; Kainer, Karl Ulrich; Stutz, Lennart; Letzig, Dietmar	MATERIALS CHARACTERIZATION	101		144	152	2015	1.845	AEM
16	Microstructure and mechanical properties of a forged beta-solidifying gamma TiAl alloy in different heat treatment conditions	Bolz, S.; Oehring, M.; Lindemann, J.; Pyczak, F.; Paul, J.; Stark, A.; Lippmann, T.; Schrufer, S.; Roth-Fagaraseanu, D.; Schreyer, A.; Weiss, S.	INTERMETALLICS	58		71	83	2015	2.131	AEM / MML
17	Sorption properties and reversibility of Ti(IV) and Nb(V)-fluoride doped-Ca(BH ₄) ₂ -MgH ₂ system	Bonatto Minella, C., Garroni, S., Pistidda, C., Baró, M.D., Gutfleisch, O., Klassen, T., Dornheim, M.	Journal of Alloys and Compounds	622		989	994	2015	2.999	AEM
18	Pilot scale investigations of the removal of carbon dioxide from hydrocarbon gas streams using poly (ethylene oxide)-poly (butylene terephthalate) PolyActive (TM) thin film composite membranes	Brinkmann, Torsten; Naderipour, Celine; Pohlmann, Jan; Wind, Jan; Wolff, Thorsten; Esche, Erik; Muller, David; Wozny, Guenter; Hoting, Bjoern	JOURNAL OF MEMBRANE SCIENCE	489		237	247	2015	5.056	AEM
19	Investigating the influence of the pressure distribution in a membrane module on the cascaded membrane system for post-combustion capture	Brinkmann, Torsten; Pohlmann, Jan; Bram, Martin; Zhao, Li; Tota, Akos; Escalona, Natividad Jordan; de Graaff, Marijke; Stolten, Detlef	INTERNATIONAL JOURNAL OF GREENHOUSE GAS CONTROL	39		194	204	2015	3.946	AEM
20	Influence of milling parameters on the sorption properties of the LiH-MgB ₂ system doped with TiCl ₃	Busch, N., Jepsen, J., Pistidda, C., Puszkiel, J.A., Karimi, F., Milanese, C., Tolkiehn, M., Chaudhary, A.-L., Klassen, T., Dornheim, M.	Journal of Alloys and Compounds	645	S1	S299	S303	2015	2.999	AEM / MML
21	Thermomechanical modelling of polysynthetically twinned TiAl crystals	Butzke, J.E., Bargmann, S.	Philosophical Magazine					2015	1.825	AEM
22	In situ synchrotron radiation diffraction study of the role of Gd, Nd on the elevated temperature compression behavior of ZK40	Buzolin, R. H.; Tolnai, D.; Mendis, C. L.; Stark, A.; Schell, N.; Pinto, H.; Kainer, K. U.; Hort, N.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	640		129	136	2015	Scopus	AEM / MML

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23	Investigation of compression behavior of Mg-4Zn-2(Nd, Gd)-0.5Zr at 350°C by in situ synchrotron radiation diffraction	Buzolin, R.H., Tolnai, D., Mendis, C., Stark, A., Schell, N., Pinto, H., Kainer, K.U., and Hort, N.	TMS 2015 Conference Proceedings of the 144th Annual Meeting of the Minerals, Metals, and Materials Society, TMS2015, in Orlando, Florida, USA, 15-19 March 2015, special issue: "Magnesium Technology 2015"			103	107	2015	Proceedings	AEM
24	Polyelectrolyte-modified layered double hydroxide nanocontainers as vehicles for combined inhibitors	Carneiro, Jorge; Caetano, Ana F.; Kuznetsova, Alena; Maia, Frederico; Salak, Andrei N.; Tedim, Joao; Scharnagl, Nico; Zheludkevich, Mikhail L.; Ferreira, Mario G. S.	RSC ADVANCES	5	50	39916	39929	2015	3.840	AEM
25	The deformation behavior, microstructure and mechanical properties of cast and extruded Mg-1Mn-xNd (wt%) at temperatures between 50°C and 250°C	Chakkedath, A., Bohlen, J., Yi, S., Letzig, D., Chen, Z., Boehlert, C.L.	Magnesium Technology			109	114	2015	1.868	AEM
26	Simultaneous desorption behavior of M borohydrides and Mg<math>\langle 2 \rangle \langle /math>FeH<math>\langle 6 \rangle \langle /math> reactive hydride composites (M = Mg, then Li, Na, K, Ca)	Chaudhary, A.-L., Li, G., Matsuo, M., Orimo, S.-I., Deledda, S., Sørby, M.H., Hauback, B.C., Pistidda, C., Klassen, T., Dornheim, M.	Applied Physics Letters	107	7			2015	3.302	AEM
27	Thermodynamic destabilisation of MgH ₂ and NaMgH ₃ using Group IV elements Si, Ge or Sn	Chaudhary, Anna-Lisa; Paskevicius, Mark; Sheppard, Drew A.; Buckley, Craig E.	JOURNAL OF ALLOYS AND COMPOUNDS	623		109	116	2015	2.999	AEM
28	Reaction kinetic behaviour with relation to crystallite/grain size dependency in the Mg-Si-H system	Chaudhary, Anna-Lisa; Sheppard, Drew A.; Paskevicius, Mark; Pistidda, Claudio; Dornheim, Martin; Buckley, Craig E.	ACTA MATERIALIA	95		244	253	2015	4.465	AEM
29	Solvent-Free Preparation of Electrically Conductive Polyetherimide Membranes using Carbon Nanotubes	Christian Otto, Ulrich Alexander Handge, Ortrud Aschenbrenner, Juliane Kerwitz, Clarissa Abetz, Volker Abetz	Macromolecular Materials and Engineering	online 15. Jul. 2015	12	1246	1256	2015	2.661	AEM
30	NKCS, a Mutant of the NK-2 Peptide, Causes Severe Distortions and Perforations in Bacterial, But Not Human Model Lipid Membranes	Ciobanasu, Corina; Rzeszutek, Agnieszka; Kubitscheck, Ulrich; Willumeit, Regine	MOLECULES	20	4	6941	6958	2015	2.416	AEM
31	Application of the eigenstrain approach to predict the residual stress distribution in laser shock peened AA7050-T7451 samples	Coratella, S.; Sticchi, M.; Toparli, M. B.; Fitzpatrick, M. E.; Kashae, N.	SURFACE & COATINGS TECHNOLOGY	273	1	39	49	2015	1.998	AEM
32	Numerical prediction of the stress-strain response of a lamellar gamma TiAl polycrystal using a two-scale modelling approach	Cornec, A.; Kabir, M. R.; Huber, N.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	620		273	285	2015	Scopus	AEM
33	Fluoride conversion coatings for magnesium and its alloys for the biological environment	da Conceição, T.F., Scharnagl, N.	Journal of Applied Polymer Science	131	24			2015	0.919	AEM
34	Less Noble or More Noble: How Strain Affects the Binding of Oxygen on Gold	Deng, Q., Gopal, V., Weissmüller, J.	Angewandte Chemie - International Edition	54	44	12981	12985	2015	-	AEM
35	Electrocapillary coupling at rough surfaces	Deng, Qibo; Gossler, Daniel-Hendrik; Smetanin, Maxim; Weissmueller, Joerg	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	17	17	11725	11731	2015	4.493	AEM

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36	Comparative Study of Microstructure and Texture of Cast and Homogenized TX32 Magnesium Alloy After Hot Deformation	Dharmendra, C.; Rao, K. P.; Prasad, Y. V. R. K.; Hort, N.; Kainer, K. U.	METALS AND MATERIALS INTERNATIONAL	21	1	134	146	2015	1.579	AEM
37	Twin-roll casting after intensive melt shearing and subsequent rolling of an am30 magnesium alloy with addition of cao and sic	Dieringa, H., Das, S., Eskin, D., Fan; Z.Y., Katsarou, L., Horstmann, M., Kurz, G., Mendis, C., Hort, N., Kainer, K.U.	Materials Science Forum	828-829		35	40	2015	0.442	AEM
38	Hydrogen embrittlement of biodegradable magnesium	Dietzel, W.	Solid State Phenomena	225		71	76	2015	-	AEM
39	Self-Assembled Ultra High Strength, Ultra Stiff Mechanical Metamaterials Based on Inverse Opals	do Rosario, J.J., Lilleodden, E.T., Waleczek, M., Kubrin, R., Petrov, A.Y., Dyachenko, P.N., Sabisch, J.E.C., Nielsch, K., Huber, N., Eich, M., Schneider, G.A.,	ADVANCED ENGINEERING MATERIALS	17	10	1420	1424	2015	1.703	AEM
40	Deformation behavior of rolled magnesium slabs and twin roll cast strips studied by the acoustic emission technique	Dobron, P., Drozdenko, D., Bohlen, J., Letzig, D., Chmelík, F.	Magnesium Technology			273	276	2015	1.868	AEM
41	Influence of pre-compression on tensile behaviour in wrought Mg-Zn-Ce alloy studied by the acoustic emission technique	Dobroň, P., Drozdenko, D., Bohlen, J., Yi, S., Letzig, D., Chmelík, F.	Acta Physica Polonica A	128	4	790	794	2015	0.578	AEM
42	The influence of rolling conditions on deformation behavior of magnesium alloy sheets	Drozdenko, D., Bohlen, J., Chmelík, F., Letzig, D., Dobroň, P.	Acta Physica Polonica A	128	4	795	800	2015	0.578	AEM
43	Dependence of compression-tension loading on twinning in wrought Mg alloy	Drozdenko, D., Bohlen, J., Yi, S., Letzig, D., Chmeik, F., Dobroň, P.	Magnesium Technology			237	240	2015	1.868	AEM
44	Finite element damage analysis of an underwater glider–ship collision	Drücker, S., Steglich, D., Merckelbach, L., Werner, A., Bargmann, S.	Journal of Marine Science and Technology (Japan)					2015	0.805	AEM
45	Metal injection molding of titanium	Ebel, T., Friederici, V., Imgrund, P., Hartwig, T.	Titanium Powder Metallurgy: Science, Technology and Applications			337	360	2015	Scopus	AEM
46	Single-sided laser beam welding of a dissimilar AA2024-AA7050 T-joint	Enz, J.; Khomenko, V.; Riekehr, S.; Ventzke, V.; Huber, N.; Kashae, N.	MATERIALS & DESIGN	76		110	116	2015	3.501	AEM
47	Friction spot joining of aluminum AA6181-T4 and carbon fiber-reinforced poly(phenylene sulfide): Effects of process parameters on the microstructure and mechanical strength	Esteves, J. V.; Goushegir, S. M.; dos Santos, J. F.; Canto, L. B.; Hage, E., Jr.; Amancio-Filho, S. T.	MATERIALS & DESIGN	66		437	445	2015	3.501	AEM
48	Influence of various sterilization methods on hardness, grain size and corrosion rate of a Mg6Ag-alloy	Feyerabend Frank, Martin Johannisson, Zhidan Liu, and Regine Willumeit-Römer	BioNanoMaterials	16	1	51	58	2015	Scopus	AEM
49	Blood compatibility of magnesium and its alloys	Feyerabend, F., Wendel, H.-P., Mihailova, B., Heidrich, S., Agha, N.A., Bismayer, U., Willumeit-Römer, R.	Acta Biomaterialia					2015	6.025	AEM
50	Modified hydroxyethyl starch protects cells from oxidative damage	Filippov, S.K., Sergeeva, O.Y., Vlasov, P.S., Zavyalova, M.S., Belostotskaya, G.B., Garamus, V.M., Khrustaleva, R.S., Stepanek, P., Domnina, N.S.	Carbohydrate Polymers	134		314	323	2015	4.074	AEM / MML
51	Friction surfacing of Ti-6Al-4V: Process characteristics and deposition behaviour at various rotational speeds	Fitseva, V.; Krohn, H.; Hanke, S.; dos Santos, J. F.	SURFACE & COATINGS TECHNOLOGY	278		56	63	2015	1.998	AEM

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52	Microstructural Evolution in Gamma Titanium Aluminides During Severe Hot-Working	Froebel, Ulrich; Stark, Andreas	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	46A	1	439	455	2015	1.730	AEM / MML
53	Plasticity analysis by synchrotron radiation in a Mg97Y2Zn1 alloy with bimodal grain structure and containing LPSO phase	Garces, G.; Morris, D. G.; Munoz-Morris, M. A.; Perez, P.; Tolnai, D.; Mendis, C.; Stark, A.; Lim, H. K.; Kim, S.; Shell, N.; Adeva, P.	ACTA MATERIALIA	94		78	86	2015	4.465	AEM / MML
54	Thermal expansion behaviour of Long-Period Stacking Ordered (LPSO) phase	Garces, Gerardo; Requena, Guillermo; Tolnai, Domonkos; Perez, Pablo; Adeva, Paloma; Jimenez, Jose A.; Stark, Andreas; Schell, Norbert	REVISTA DE METALURGIA	51	2			2015	0.288	AEM / MML
55	Characterization of the Microstructure Evolution in IF-Steel and AA6016 during Plane-Strain Tension and Simple Shear	Gerstein, Gregory; Klusemann, Benjamin; Bargmann, Swantje; Schaper, Mirko	MATERIALS	8	1	285	301	2015	2.651	AEM
56	Correlation between mechanical behaviour and microstructure in the Mg-Ca-Si-Sr system for degradable biomaterials based on thermodynamic calculations	Gil-Santos, A., Szakacs, G., Moelans, N., Hort, N., Van Der Biest, O.	Magnesium Technology			431	436	2015	1.868	AEM
57	Friction spot welding of carbon fiber-reinforced polyamide 66 laminate	Gonçalves, J., Dos Santos, J.F., Canto, L.B., Amancio-Filho, S.T.	Materials Letters	159		506	509	2015	2.489	AEM
58	Influence of process parameters on mechanical performance and bonding area of AA2024/carbon-fiber-reinforced poly(phenylene sulfide) friction spot single lap joints	Goushegir, S.M., dos Santos, J.F., Amancio-Filho, S.T.	Materials and Design	83		431	442	2015	3.501	AEM
59	XPS analysis of the interface between AA2024-T3/CF-PPS friction spot joints	Goushegir, S.M., Scharnagl, N., dos Santos, J.F., Amancio-Filho, S.T.	Surface and Interface Analysis					2015	0.736	AEM
60	Design of Local Heat Treatment for Crack Retardation in Aluminium Alloys	Groth, A., Horstmann, M., Kashaev, N., Huber, N.	Procedia Engineering	114		271	276	2015	Proceedings	AEM
61	Ionic liquids supported by isoporous membranes for CO2/N2 gas separation applications	Grünauer, J., Shishatskiy, S., Abetz, C., Abetz, V., Filiz, V.	Journal of Membrane Science	494		224	233	2015	5.056	AEM
62	Mechanical characterization of oligo(ethylene glycol)-based hydrogels by dynamic nanoindentation experiments	Guglielmi, P. O.; Herbert, E. G.; Tartivel, L.; Behl, M.; Lendlein, A.; Huber, N.; Lilleodden, E. T.	JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS	46		1	10	2015	3.417	AEM / BIFTM
63	Thin Isoporous Block Copolymer Membranes: It is All about the Process	Hahn, J., Clodt, J.I., Abetz, C., Filiz, V., Abetz, V.	ACS Applied Materials and Interfaces	7	38	21130	21137	2015	6.725	AEM
64	Sliding wear behaviour of a Cr-base alloy after microstructure alterations induced by friction surfacing	Hanke, S., Fischer, A., dos Santos, J.F.	Wear	338-339		332	338	2015	1.913	AEM
65	In situ X-ray diffraction environments for high-pressure reactions	Hansen, Bjarne R. S.; Moller, Kasper T.; Paskevicius, Mark; Dippel, Ann-Christin; Walter, Peter; Webb, Colin James; Pistidda, Claudio; Bergemann, Nils; Dornheim, Martin; Klassen, Thomas; Jorgensen, Jens-Erik; Jensen, Torben Rene	JOURNAL OF APPLIED CRYSTALLOGRAPHY	48		1234	1241	2015	3.720	AEM

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66	Synthesis of poly(thiophene-alt-pyrrole) from a difunctionalized thienylpyrrole by Kumada polycondensation	He, Lu-Ying; Urrego-Riveros, Sara; Gates, Paul J.; Naether, Christian; Brinkmann, Maren; Abetz, Volker; Staubitz, Anne	TETRAHEDRON	71	33	5399	5406	2015	2.641	AEM
67	Origin of the reversed yield asymmetry in Mg-rare earth alloys at high temperature	Hidalgo-Manrique, P.; Herrera-Solaz, V.; Segurado, J.; Llorca, J.; Galvez, F.; Ruano, O. A.; Yi, S. B.; Perez-Prado, M. T.	ACTA MATERIALIA	92		265	277	2015	4.465	AEM
68	The effect of iron re-deposition on the corrosion of impurity-containing magnesium	Höche, D., Blavert, C., Lamaka, S.V., Scharnagl, N., Mendis, C., Zheludkevich, M.L.	Physical Chemistry Chemical Physics	18	2	1279	1291	2015	1.228	AEM
69	Simulation of Corrosion Product Deposit Layer Growth on Bare Magnesium Galvanically Coupled to Aluminum	Hoeche, Daniel	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	162	1	C1	C11	2015	3.266	AEM
70	Magnesium Melt Protection	Hort N, B Wiese, H Dieringa, KU Kainer	Material Science Forum	828-829		78	81	2015	Scopus	AEM
71	Deformation-induced dynamic precipitation during creep in magnesium-tin alloys	Huang, Y., Dieringa, H., Kainer, K.U., Hort, N.	Key Engineering Materials	627		365	368	2015	Conference Paper	AEM
72	Nanoparticles of the poly([N-(2-hydroxypropyl)]-methacrylamide)-b-poly[2-(diisopropylamino)ethyl methacrylate] diblock copolymer for pH-triggered release of paclitaxel	Jaeger, Alessandro; Jaeger, Eliezer; Surman, Frantisek; Hoecherl, Anita; Angelov, Borislav; Ulbrich, Karel; Drechsler, Markus; Garamus, Vasil M.; Rodriguez-Emmenegger, Cesar; Nallet, Frederic; Stepanek, Petr	POLYMER CHEMISTRY	6	27	4946	4954	2015	5.520	AEM / MML
73	Performance study of isoporous membranes with tailored pore sizes	Juliana I. Clodt, Barbara Bajer, Kristian Buhr, Janina Hahn, Volkan Filiz, Volker Abetz	Journal of Membrane Science	online 29 Jul. 2015	495	334	340	2015	5.056	AEM
74	Challenges and solutions in the development of magnesium sheet for sustainable vehicle concepts	Kainer, K.U., Hoppe, R., Bohlen, J., Kurz, G., Yi, S.B., Letzig, D.	Materials Science Forum	828-829		15	22	2015	0.442	AEM
75	Interplay of Superstructural Ordering and Magnetic Properties of the Sr ₂ FeMoO ₆ -delta Double Perovskite	Kalanda, N. A.; Kovalev, L. V.; Waerenborgh, J. C.; Soares, M. R.; Zheludkevich, M. L.; Yarmolich, M. V.; Sobolev, N. A.	SCIENCE OF ADVANCED MATERIALS	7	3	446	454	2015	2.598	AEM
76	Structural and kinetic investigation of the hydride composite Ca(BH ₄) ₂ + MgH ₂ system doped with NbF ₅ for solid-state hydrogen storage	Karimi, Fahim; Pranzas, P. Klaus; Pistidda, Claudio; Puzkiel, Julian A.; Milanese, Chiara; Vainio, Ulla; Paskevicius, Mark; Emmler, Thomas; Santoru, Antonio; Utke, Rapee; Tolkiehn, Martin; Minella, Christian B.; Chaudhary, Anna-Lisa; Boerries, Stefan; Buckley, Craig E.; Enzo, Stefano; Schreyer, Andreas; Klassen, Thomas; Dornheim, Martin	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	17	41	27328	27342	2015	4.493	MML / AEM
77	Fracture mechanical behaviour of laser beam-welded AA2198 butt joints and integral structures	Kashaev, N., Riekehr, S., Erdmann, K., Carvalho, A.A., Nurgaliev, M., Alexopoulos, N., Karanika, A.	International Journal of Structural Integrity	6	6	787	798	2015	Scopus	AEM
78	Microstructure and Mechanical Properties of Laser Beam Welded Joints between Fine-Grained and Standard Ti-6Al-4V Sheets Subjected to Superplastic Forming	Kashaev, Nikolai; Ventzke, Volker; Horstmann, Manfred; Riekehr, Stefan; Yashin, Grigory; Stutz, Lennart; Beck, Werner	ADVANCED ENGINEERING MATERIALS	17	3	374	382	2015	1.703	AEM
79	Assessment of alternative joining techniques for Ti-6Al-4V/CFRP hybrid joints regarding tensile and fatigue strength	Kashaev, Nikolai; Ventzke, Volker; Riekehr, Stefan; Dorn, Falk; Horstmann, Manfred	MATERIALS & DESIGN	81		73	81	2015	3.501	AEM
80	Microstructure and properties of magnesium alloy Mg-1Zn-1Ca (Zx11)	Katsarou, L., Suresh, K., Rao, K.P., Hort, N., Blawert, C., Mendis, C.L., Dieringa, H.	Magnesium Technology			419	423	2015	1.868	AEM

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81	Differences in binding behavior of (-)-epigallocatechin gallate to β -lactoglobulin heterodimers (AB) compared to homodimers (A) and (B)	Keppler, J.K., Martin, D., Garamus, V.M., Schwarz, K.	Journal of Molecular Recognition					2015	-	AEM / MML
82	Free volume and gas permeation in anthracene maleimide-based polymers of intrinsic microporosity.	Khan, Muntazim Munir; Filiz, Volkan; Emmeler, Thomas; Abetz, Volker; Koschine, Toenjes; Ratzke, Klaus; Faupel, Franz; Egger, Werner; Ravelli, Luca	Membranes	5	2	214	227	2015	Scopus	AEM
83	The Electro-Chemo-Mechanical Coupling in Lithium Alloy Electrodes and Its Origins	Kitzler, T., Maawad, E., Toebbens, D.M., Ziehmer, M., Markmann, J.	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	162	14	2684	2691	2015	3.266	AEM
84	Polyelectrolyte Complexes of a Cationic All Conjugated Fluorene-Thiophene Diblock Copolymer with Aqueous DNA	Knaapila, Matti; Costa, Telma; Garamus, Vasil M.; Kraft, Mario; Drechsler, Markus; Scherf, Ulrich; Burrows, Hugh D.	JOURNAL OF PHYSICAL CHEMISTRY B	119	7	3231	3241	2015	3.302	AEM / MML
85	Destroying activity of magnetoferritin on lysozyme amyloid fibrils	Kopcansky, Peter; Siposova, Katarina; Melnikova, Lucia; Bednarikova, Zuzana; Timko, Milan; Mitroova, Zuzana; Antosova, Andrea; Garamus, Vasil M.; Petrenko, Viktor I.; Avdeev, Mikhail V.; Gazova, Zuzana	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	377		267	271	2015	1.970	AEM / MML
86	Correlation of Gas Permeation and Free Volume in New and used High Free Volume Thin Film Composite Membranes	Koschine, Toenjes; Raetzke, Klaus; Faupel, Franz; Khan, Muntazim Munir; Emmeler, Thomas; Filiz, Volkan; Abetz, Volker; Ravelli, Luca; Egger, Werner	JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS	53	3	213	217	2015	3.830	AEM
87	Influence of external cooling configuration on friction surfacing of AA6082 T6 over AA2024 T351	Krohn, H., Hanke, S., Beyer, M., dos Santos, J.F.	Manufacturing Letters	5		17	20	2015	-	AEM
88	Rolling Twin Roll Cast Magnesium Strips with Varied Temperature and Degree of Deformation	Kurz, G., Pakulat, S., Bohlen, J., Letzig, D.	Materials Today: Proceedings			39	44	2015	Proceedings	AEM
89	Microstructure evolution of different magnesium alloys during twin roll casting	Kurz, G., Wendt, A., Bohlen, J., Letzig, D.	Magnesium Technology			465	470	2015	1.868	AEM
90	On the development of mg sheets with improved formability by applying additional shear strain during processing	Letzig, D., Suh, J., Bohlen, J., Yi, S., Kurz, G., Golle, R., Volk, W., Victoria-Hernandez, J.	Materials Science Forum	828-829		395	400	2015	0.442	AEM
91	In situ study of phase transformations during laser-beam welding of a TiAl alloy for grain refinement and mechanical property optimization	Liu, Jie; Staron, Peter; Riekehr, Stefan; Stark, Andreas; Schell, Norbert; Huber, Norbert; Schreyer, Andreas; Mueller, Martin; Kashaev, Nikolai	INTERMETALLICS	62		27	35	2015	2.131	AEM / MML
92	Crenellation Patterns for Fatigue Crack Retardation in Fuselage Panels Optimized via Genetic Algorithm	Lu, J., Kashaev, N., Huber, N.	Procedia Engineering	114		248	254	2015	Proceedings	AEM
93	Insights into plasma electrolytic oxidation treatment with particle addition	Lu, X., Blavert, C., Zheludkevich, M.L., Kainer, K.U.	Corrosion Science	101		201	207	2015	4.422	AEM
94	Degradation behavior of PEO coating on AM50 magnesium alloy produced from electrolytes with clay particle addition	Lu, Xiaopeng; Sah, Santosh Prasad; Scharnagl, Nico; Stoermer, Michael; Strykevich, Maksim; Mohedano, Marta; Blawert, Carsten; Zheludkevich, Mikhail L.; Kainer, Karl Ulrich	SURFACE & COATINGS TECHNOLOGY	269	1	155	169	2015	1.998	AEM
95	Elastic and plastic Poisson's ratios of nanoporous gold	Lührs, L., Soyarslan, C., Markmann, J., Bargmann, S., Weissmüller, J.	Scripta Materialia					2015	3.224	AEM
96	Incorporation of biocides in nanocapsules for protective coatings used in maritime applications	Maia, F.; Silva, A. P.; Fernandes, S.; Cunha, A.; Almeida, A.; Tedim, J.; Zheludkevich, M. L.; Ferreira, M. G. S.	CHEMICAL ENGINEERING JOURNAL	270		150	157	2015	4.321	AEM

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97	Twinning assisted crack propagation of magnesium-rare earth casting and wrought alloys under bending	Maier, P., Mendis, C., Wolff, M., Müller, S., Hort, N.	Materials Science Forum	828-829		311	317	2015	0.442	AEM
98	Influence of Precipitation Hardening in Mg-Y-Nd on Mechanical and Corrosion Properties	Maier, P., Peters, R., Mendis, C.L., Müller, S., Hort, N.	JOM			1	8	2015	1.757	AEM
99	Mechanical and corrosive properties of two magnesium wires: Mg4Gd and Mg6Ag	Maier; P., Szakács, G., Wala, M., Hort, N.	Magnesium Technology			393	398	2015	1.868	AEM
100	Influence of testing environment on the degradation behavior of magnesium alloys for bioabsorbable implants	Marco, I., Feyerabend, F., Willumeit-Römer, R., Van Der Biest, O.	TMS Annual Meeting	2015-March		499	506	2015	Scopus	AEM
101	Mg and Mg alloys: how comparable are in vitro and in vivo corrosion rates? A review.	Martinez Sanchez, Adela Helvia; Luthringer, Berengere J C; Feyerabend, Frank; Willumeit, Regine	Acta biomaterialia	13		16	31	2015	6.025	AEM
102	Microstructural and Mechanical Observations of Galvanized TRIP Steel after Friction Stir Spot Welding	Mazzaferro, C. C. P.; Rosendo, T. S.; Tier, M. A. D.; Mazzaferro, J. A. E.; Dos Santos, J. F.; Strohaecker, T. R.	MATERIALS AND MANUFACTURING PROCESSES	30	9	1090	1103	2015	1.629	AEM
103	A computational investigation of a model of single-crystal gradient thermoplasticity that accounts for the stored energy of cold work and thermal annealing	McBride, A.; Bargmann, S.; Reddy, B. D.	COMPUTATIONAL MECHANICS	55	4	755	769	2015	2.525	AEM
104	SANS contrast variation study of magnetoferritin structure at various iron loading	Melnikova, Lucia; Petrenko, Viktor I.; Avdeev, Mikhail V.; Ivankov, Oleksandr I.; Bulavin, Leonid A.; Garamus, Vasil M.; Almasy, Laszlo; Mitroova, Zuzana; Kopcansky, Peter	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	377		77	80	2015	1.970	AEM / MML
105	High Strength Magnesium Alloys Through Precipitation Hardening and Micro Alloying: Considerations for Alloy Design	Mendis, C.L., Kainer, K.U., Hort, N.	JOM					2015	1.757	AEM
106	In situ investigation of microstructure evolution during solidification of Mg ₁₀ CaxGd (x = 5, 10, 20) alloys	Mendis, C.L., Tolnai, D., Stark, A., Schell, N., Kainer, K.U., Hort, N.	Acta Physica Polonica A	128	4	606	610	2015	0.578	AEM
107	Influence of Alloying Elements and Extrusion Process Parameter on the Recrystallization Process of Mg-Zn alloys	Meza-García, E., Bohlen, J., Yi, S., Letzig, D., Kräusel, V., Landgrebe, D., Kainer, K.U.	Materials Today: Proceedings			19	25	2015	Proceedings	AEM
108	Enhanced Corrosion Resistance of AZ91 Alloy Produced by Semisolid Metal Processing	Mingo, B.; Arrabal, R.; Mohedano, M.; Pardo, A.; Matykina, E.; Rivas, A.	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	162	4	C180	C188	2015	3.266	AEM
109	Silicate-based Plasma Electrolytic Oxidation (PEO) coatings with incorporated CeO ₂ particles on AM50 magnesium alloy	Mohedano, M., Blawert, C., Zheludkevich, M.L.	Materials and Design	86		735	744	2015	3.501	AEM
110	Cerium-based sealing of PEO coated AM50 magnesium alloy	Mohedano, M.; Blawert, C.; Zheludkevich, M. L.	SURFACE & COATINGS TECHNOLOGY	269	1	145	154	2015	1.998	AEM
111	PEO of pre-anodized Al-Si alloys: Corrosion properties and influence of sealings	Mohedano, M.; Matykina, E.; Arrabal, R.; Mingo, B.; Pardo, A.	APPLIED SURFACE SCIENCE	346		57	67	2015	2.711	AEM
112	Dual-scale phase-field simulation of Mg-Al alloy solidification	Monas, A.; Shchyglo, O.; Hoeche, D.; Tegeler, M.; Steinbach, I.	MCWASP XIV: INTERNATIONAL CONFERENCE ON MODELLING OF CASTING, WELDING AND ADVANCED SOLIDIFICATION PROCESSES	84				2015	Conference Paper	AEM

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113	Divorced Eutectic Solidification of Mg-Al Alloys	Monas, Alexander; Shchyglo, Oleg; Kim, Se-Jong; Yim, Chang Dong; Hoeche, Daniel; Steinbach, Ingo	JOM	67	8	1805	1811	2015	1.757	AEM
114	Corrosion behaviour of creep-resistant AE42 magnesium alloy-based hybrid composites developed for powertrain applications	Mondal, A. K.; Blawert, C.; Kumar, S.	MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION	66	10	1150	1158	2015	1.373	AEM
115	Correlation of microstructure and creep behaviour of MRI230D Mg alloy developed by two different casting technologies	Mondal, A. K.; Kesavan, Arjun Rajiv; Reddy, B. Ravi Kiran; Dieringa, Hajo; Kumar, S.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	631		45	51	2015	Scopus	AEM
116	Characterisation and corrosion behaviour of plasma electrolytic oxidation coatings on high pressure die cast Mg-5Al-0.4Mn-xCe (x=0, 0.5, 1) alloys	Muhaffel, Faiz; Mert, Faruk; Cimenoglu, Huseyin; Hoeche, Daniel; Zheludkevich, Mikhail L.; Blawert, Carsten	SURFACE & COATINGS TECHNOLOGY	269	1	200	211	2015	1.998	AEM
117	Energy-equivalent inhomogeneity approach to analysis of effective properties of nanomaterials with stochastic structure	Nazarenko, Lidia; Bargmann, Swantje; Stolarski, Henryk	INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES	59		183	197	2015	2.214	AEM
118	Introducing an ultralight, high-strength, biodegradable Mg-4Li-1Ca alloy	Nene, S. S., Y. Estrin, B.P. Kashyap, N. Prabhu, T. Al-Samman, B.J.C. Luthringer, R. Willumeit	Advanced Biomaterials and Devices in Medicine	2	1	32	36	2015	-	AEM
119	Anomalous compliance and early yielding of nanoporous gold	Ngo, Bao-Nam Dinh; Stukowski, Alexander; Mameka, Nadiia; Markmann, Juergen; Albe, Karsten; Weissmueller, Joerg	ACTA MATERIALIA	93		144	155	2015	4.465	AEM
120	Cytotoxicity of the Ga-containing coatings on biodegradable magnesium alloys	Nguyen, A.; Kunert, M.; Hort, N.; Schrader, C.; Weisser, J.; Schmidt, J.	SURFACE INNOVATIONS	3	1	10	19	2015	Scopus	AEM
121	In Vitro Resorbtion of Magnesium Materials and its Effect on Surface and Surrounding Environment	Olga Charyeva, Frank Feyerabend, Regine Willumeit, Daniel Zukowski, Cyrille Gasqueres, Gabor Szakacs, Nezha Ahmad Agha, Norbert Hort, Felix Gensch, Francesca Cecchinato, Ryo Jimbo, Ann Wennerberg; Katrin Susanne Lips	MOJ Toxicology	1		4		2015	-	AEM
122	Corrosion behaviour of WC-10% AISI 304 cemented carbides	Oliveira, A.B., Bastos, A.C., Fernandes, C.M., Pinho, C.M.S., Senos, A.M.R., Soares, E., Sacramento, J., Zheludkevich, M.L., Ferreira, M.G.S.	Corrosion Science					2015	4.422	AEM
123	Shape memory effect of laser welded NiTi plates	Oliveira, J.P., Braz Fernandes, F.M., Schell, N., and Miranda, R.M.	Functional Materials Letters	8	6	1550069-1	1550069-5	2015	1.606	AEM / MML
124	Fundamental physical principles and cohesive zone models at finite displacements - Limitations and possibilities	Ottosen, Niels Saabye; Ristinmaa, Matti; Mosler, Joern	INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES	53		70	79	2015	2.214	AEM

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125	Microstructural influences on strengthening in a naturally aged and overaged Al-Cu-Li-Mg based alloy	Ovri, Henry; Jaegle, Eric A.; Stark, Andreas; Lilleodden, Erica T.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	637		162	169	2015	Scopus	AEM
126	New insights into plastic instability in precipitation strengthened Al-Li alloys	Ovri, Henry; Lilleodden, Erica T.	ACTA MATERIALIA	89		88	97	2015	4.465	AEM
127	Impact of polyethylene glycol on aqueous micellar solutions of sodium oleate studied by small-angle neutron scattering	Petrenko, V. I.; Avdeev, M. V.; Garamus, V. M.; Bulavin, L. A.; Kopcansky, P.	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	480		191	196	2015	2.752	AEM / MML
128	Comparison of the thermochemical and mechanochemical transformations in the 2NaNH(2)-MgH2 system	Pireddu, Giovanni; Valentoni, Antonio; Minella, Christian Bonatto; Pistidda, Claudio; Milanese, Chiara; Enzo, Stefano; Mulas, Gabriele; Garroni, Sebastian	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	40	4	1829	1835	2015	3.313	AEM
129	First Direct Study of the Ammonolysis Reaction in the Most Common Alkaline and Alkaline Earth Metal Hydrides by in Situ SR-PXD	Pistidda, C.; Santoru, A.; Garroni, S.; Bergemann, N.; Rzeszutek, A.; Horstmann, C.; Thomas, D.; Klassen, T.; Dornheim, M.	JOURNAL OF PHYSICAL CHEMISTRY C	119	2	934	943	2015	4.772	AEM
130	Process parameter optimization in friction spot welding of AA5754 and Ti6Al4V dissimilar joints using response surface methodology	Plaine, A.H., Gonzalez, A.R., Suhuddin, U.F.H., Dos Santos, J.F., Alcântara, N.G.	International Journal of Advanced Manufacturing Technology					2015	1.458	AEM
131	The optimization of friction spot welding process parameters in AA6181-T4 and Ti6Al4V dissimilar joints	Plaine, A.H., Gonzalez, A.R., Suhuddin, U.F.H., dos Santos, J.F., Alcântara, N.G.	Materials and Design	83		36	41	2015	3.501	AEM
132	Improvement of thermal stability and reduction of LiBH4/polymer host interaction of nanoconfined LiBH4 for reversible hydrogen storage	Plerdsranoy, Praphatsorn; Wiset, Nuntida; Milanese, Chiara; Laipple, Daniel; Marini, Amedeo; Klassen, Thomas; Dornheim, Martin; Utike, Rapee Goslawit Prashanth, K.G., Scudino, S., Chaubey, A.K.,	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	40	1	392	402	2015	3.313	AEM
133	Processing of Al-12Si-TNM composites by selective laser melting and evaluation of compressive and wear properties	Löber, L., Wang, P., Attar, H., Schimansky, F.P., Pyczak, F., Eckert, J.	Journal of Materials Research					2015	1.647	AEM

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134	Effect of Fe additive on the hydrogenation-dehydrogenation properties of 2LiH+MgB ₂ /2LiBH(4) + MgH ₂ system	Puszkiewski, J. A.; Gennari, F. C.; Arneodo Laroquette, P.; Ramallo-Lopez, J. M.; Vainio, U.; Karimi, F.; Pranzas, P. K.; Troiani, H.; Pistidda, C.; Jepsen, J.; Tolkiehn, M.; Welter, E.; Klassen, T.; von Colbe, J. Bellosta; Dornheim, M.	JOURNAL OF POWER SOURCES	284		606	616	2015	6.217	AEM / MML
135	The effect of tungsten content on the properties of L1(2) - hardened Co-Al-W alloys	Pyczak, Florian; Bauer, Alexander; Goeken, Mathias; Lorenz, Uwe; Neumeier, Steffen; Oehring, Michael; Paul, Jonathan; Schell, Norbert; Schreyer, Andreas; Stark, Andreas; Symanzik, Felix	JOURNAL OF ALLOYS AND COMPOUNDS	632		110	115	2015	2.999	AEM / MML
136	Porous Gold with a Nested-Network Architecture and Ultrafine Structure	Qi, Zhen; Vainio, Ulla; Kornowski, Andreas; Ritter, Martin; Weller, Horst; Jin, Haijun; Weissmueller, Joerg	ADVANCED FUNCTIONAL MATERIALS	25	17	2530	2536	2015	11.805	AEM / MML
137	In situ synchrotron radiation measurements of orthorhombic phase formation in an advanced TiAl alloy with modulated microstructure	Rackel, M., Stark, A., Gabrisch, H., Schimansky, F.-P., Schell, N., Schreyer, A., Pyczak, F.	Materials Research Society Symposium Proceedings	1760		120	126	2015	Conference Paper	AEM
138	Tailored Pore Sizes in Integral Asymmetric Membranes Formed by Blends of Block Copolymers	Radjabian, Maryam; Abetz, Volker	ADVANCED MATERIALS	27	2	352	355	2015	17.493	AEM
139	Functionalization of POSS nanoparticles and fabrication of block copolymer nanocomposite membranes for CO ₂ separation	Rahman, Md Mushfequr; Filiz, Volkan; Khan, Muntazim Munir; Gacal, Bahadir N.; Abetz, Volker	REACTIVE & FUNCTIONAL POLYMERS	86		125	133	2015	2.515	AEM
140	Influence of Poly(ethylene glycol) Segment Length on CO ₂ Permeation and Stability of PolyActive Membranes and Their Nanocomposites with PEG POSS	Rahman, Md Mushfequr; Filiz, Volkan; Shishatskiy, Sergey; Abetz, Clarissa; Georgopoulos, Prokopios; Khan, Muntazim Munir; Neumann, Silvio; Abetz, Volker	ACS APPLIED MATERIALS & INTERFACES	7	23	12289	12298	2015	6.725	AEM
141	Fatigue Crack Growth Behaviour in Friction Stir Welded Aluminium-Lithium Alloy Subjected to Biaxial Loads	Richter-Trummer, V., Zhang, X., Irving, P.E., Pacchione, M., Beltrão, M., dos Santos, J.F.	Experimental Techniques					2015	0.545	AEM
142	Mechanical performance of AA6181 refill friction spot welds under Lap shear tensile loading	Rosendo, T., Tier, M., Mazzaferro, J., Mazzaferro, C., Strohaecker, T.R., Dos Santos, J.F.	Fatigue and Fracture of Engineering Materials and Structures					2015	-	AEM
143	High-pressure zinc oxysulphide phases in the ZnO-ZnS system	Salak, Andrei N.; Ignatenko, Oleg V.; Zhaludkevich, Aliaksandr L.; Lisenkov, Aleksey D.; Sarykevich, Maksim; Zheludkevich, Mikhail L.; Ferreira, Mario G. S.	PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE	212	4	791	795	2015	1.616	AEM
144	The effect of magnetic annealing on crystallographic texture and magnetic properties of Fe-2.6% Si	Salih, M. Z.; Uhlarz, M.; Pyczak, F.; Brokmeier, H. -G.; Weidenfeller, B.; Al-Hamdany, N.; Gan, W. M.; Zhong, Z. Y.; Schell, N.	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	381		350	359	2015	1.970	AEM / MML
145	Ultrafine Sanding Paper: A Simple Tool for Creating Small Particles	Schaefer, Helmut; Hess, Claudia; Tobergte, Heinrich; Volf, Anna; Ichilmann, Sachar; Eickmeier, Henning; Voss, Benjamin; Kashaev, Nikolai; Nordmann, Joerg; Akram, Wajiha; Hartmann-Azanza, Brigitte; Steinhart, Martin	SMALL	11	8	931	935	2015	8.368	AEM
146	Oxidized Mild Steel S235: An Efficient Anode for Electrocatalytically Initiated Water Splitting	Schäfer, H., Küpper, K., Wollschläger, J., Kashaev, N., Hardege, J., Walder, L., MohsenBeladi-Mousavi, S., Hartmann-Azanza, B., Steinhart, M., Sadaf, S., Dorn, F.	ChemSusChem					2015	-	AEM

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147	Polymer-based degradable coatings for metallic biomaterials	Scharnagl, N., Blawert, C.	Surface Coating and Modification of Metallic Biomaterials			393	422	2015	Scopus	AEM
148	Pre-treatment and organic coating of Al free Mg alloy for controlling degradation rates	Scharnagl, N., Mueller, P.	Materials Science Forum	828-829		327	333	2015	0.442	AEM
149	Damage modeling of small-scale experiments on dental enamel with hierarchical microstructure	Scheider, I.; Xiao, T.; Yilmaz, E.; Schneider, G. A.; Huber, N.; Bargmann, S.	ACTA BIOMATERIALIA	15		244	253	2015	6.025	AEM
150	Thermal properties, rheology and foams of polystyrene-block-poly(4-vinylpyridine) diblock copolymers	Schulze, Maria; Handge, Ulrich A.; Rangou, Sofia; Lillepaerg, Jelena; Abetz, Volker	POLYMER	70		88	99	2015	3.562	AEM
151	Effect of erbium modification on the microstructure, mechanical and corrosion characteristics of binary Mg-Al alloys	Seetharaman, S., Blawert, C., Ng, B.M., Wong, W.L.E., Goh, C.S., Hort, N., Gupta, M.	Journal of Alloys and Compounds	648		759	770	2015	2.999	AEM
152	Crystallographic Texture in Bobbin Tool Friction-Stir-Welded Aluminum	Shen, Junjun; Wang, Feifan; Suhuddin, Uceu F. H.; Hu, Siyi; Li, Wenya; Dos Santos, Jorge F.	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	46A	7	2809	2813	2015	1.730	AEM
153	Mechanical properties and corrosion behavior of Mg-Gd-Ca-Zr alloys for medical applications	Shi, Ling-ling; Huang, Yuanding; Yang, Lei; Feyerabend, Frank; Mendis, Chamini; Willumeit, Regine; Kainer, Karl Ulrich; Hort, Norbert	JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS	47		38	48	2015	3.417	AEM
154	All-Diamond Microelectrodes as Solid State Probes for Localized Electrochemical Sensing	Silva, Eduardo L.; Gouvea, Cristol P.; Quevedo, Marcela C.; Neto, Miguel A.; Archanjo, Braulio S.; Fernandes, Antonio J. S.; Achete, Carlos A.; Silva, Rui F.; Zheludkevich, Mikhail L.; Oliveira, Filipe J.	ANALYTICAL CHEMISTRY	87	13	6487	6492	2015	5.636	AEM
155	Effect of Zn addition on hot tearing behaviour of Mg-0.5Ca-xZn alloys	Song, J., Wang, Z., Huang, Y., Srinivasan, A., Beckmann, F., Kainer, K.U., Hort, N.	Materials and Design	87		157	170	2015	3.501	MML / AEM
156	Hot Tearing Susceptibility of Mg-Ca Binary Alloys	Song, J., Wang, Z., Huang, Y., Srinivasan, A., Beckmann, F., Kainer, K.U., Hort, N.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science					2015	1.730	AEM
157	Structural evolution upon decomposition of the LiAlH ₄ + LiBH ₄ system	Soru, S., Taras, A., Pistidda, C., Milanese, C., Bonatto Minella, C., Masolo, E., Nolis, P., Baró, M.D., Marini, A., Tolkiehn, M., Dornheim, M., Enzo, S., Mulas, G., Garroni, S.	Journal of Alloys and Compounds	615	S1	S693	S697	2015	2.999	AEM
158	The effect of zirconium addition on sintering behaviour, microstructure and creep resistance of the powder metallurgy processed alloy Ti-45Al-5Nb-0.2B-0.2C	Soyama, J., Oehring, M., Limberg, W., Ebel, J., Kainer, K.U., Pyczak, F.	Materials and Design	84		87	94	2015	3.501	AEM
159	Lode parameter dependence and quasi-unilateral effects in continuum damage mechanics: Models and applications in metal forming	Soyarslan, C., Richter, H., Bargmann, S.	Key Engineering Materials	651-653		187	192	2015	Conference Paper	AEM
160	A directional modification of the Lechkovitch-Svendsen cross-hardening model based on the stress deviator	Soyarslan, C.; Klusemann, B.; Bargmann, S.	MECHANICS OF MATERIALS	86		21	30	2015	2.329	AEM

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161	Electrochemical deposition of zinc from deep eutectic solvent on barrier alumina layers	Starykevich, M.; Salak, A. N.; Ivanou, D. K.; Lisenkov, A. D.; Zheludkevich, M. L.; Ferreira, M. G. S.	ELECTROCHIMICA ACTA	170		284	291	2015	4.504	AEM
162	Evaporation-Induced Block Copolymer Self-Assembly into Membranes Studied by in Situ Synchrotron SAXS	Stegelmeier, Corinna; Exner, Alexander; Hauschild, Stephan; Filiz, Volkan; Perlich, Jan; Roth, Stephan V.; Abetz, Volker; Foerster, Stephan	MACROMOLECULES	48	5	1524	1530	2015	5.800	AEM
163	Experimental and Numerical Formability Analysis of AZ31 and ZE10 Sheets	Steglich, D., Mekonen, M.N., Bohlen, J.	Materials Today: Proceedings	2		125	130	2015	Proceedings	AEM
164	Prediction of crashworthiness for extruded magnesium materials	Steglich, D., Tian, X.	Key Engineering Materials	651-653		1009	1014	2015	Conference Paper	AEM
165	Experimental and numerical crushing analyses of thin-walled magnesium profiles	Steglich, D.; Tian, X.; Bohlen, J.; Riekehr, S.; Kashaev, N.; Kainer, K. U.; Huber, N.	INTERNATIONAL JOURNAL OF CRASHWORTHINESS	20	2	177	190	2015	0.569	AEM
166	Review of residual stress modification techniques for extending the fatigue life of metallic aircraft components	Sticchi, M., Schnubel, D., Kashaev, N., Huber, N.	Applied Mechanics Reviews	67	1			2015	2.647	AEM
167	Powder metallurgical synthesis of biodegradable mg-hydroxyapatite composites for biomedical applications	Stüpp, C.A., Mendis, C.L., Mohedano, M., Szakács, G., Gensch, F., Müller, S., Feyerabend, F., Hotza, D., Fredel, M.C., Hort, N.	Materials Science Forum	828-829		165	171	2015	0.442	AEM
168	On the Hydrogenation of a NaH/AlB ₂ Mixture	Suárez-Alcántara, K., Bösenberg, U., Saldan, I., Klassen, T., Dornheim, M.	Journal of Physical Chemistry C	119	40	22826	22831	2015	4.772	AEM
169	Synchrotron Diffraction Studies of Hydrogen Absorption/Desorption on CaH ₂ + MgB ₂ Reactive Hydride Composite Mixed With Fluorinated Compounds	Suarez-Alcantara, K.; Sorby, M. H.; Pistidda, C.; Karimi, F.; Saldan, I.; Hauback, B. C.; Klassen, T.; Dornheim, M.	JOURNAL OF PHYSICAL CHEMISTRY C	119	21	11430	11437	2015	4.772	AEM / MML
170	Improvement in cold formability of AZ31 magnesium alloy sheets processed by equal channel angular pressing	Suh, J.; Victoria-Hernandez, J.; Letzig, D.; Golle, R.; Yi, S.; Bohlen, J.; Volk, W.	JOURNAL OF MATERIALS PROCESSING TECHNOLOGY	217		286	293	2015	2.236	AEM
171	In situ synchrotron radiation diffraction during solidification of Mg ₁₅ Gd: effect of cooling rate	Szakács, G., Mendis, C.L., Tolnai, D., Stark, A., Schell, N., Ovri, H., Wolff, M., Kainer, K.U., Gröbner, J., Schmid-Fetzer, R., and Hort, N.	TMS 2015 Conference Proceedings of the 144th Annual Meeting of the Minerals, Metals, and Materials Society, Magnesium Technology 2015			79	84	2015	Proceedings	AEM
172	Poly(ether-amide) vs. poly(ether-imide) copolymers for post-combustion membrane separation processes	Tena, Alberto; Shishatskiy, Sergey; Filiz, Volkan	RSC ADVANCES	5	29	22310	22318	2015	3.840	AEM
173	The plastic yield and flow behavior in metallic glasses	Thamburaja, Prakash; Klusemann, Benjamin; Adibi, Sara; Bargmann, Swantje	APPLIED PHYSICS LETTERS	106	5			2015	3.302	AEM
174	Kinetic improvement on the CaH ₂ -catalyzed Mg(NH ₂) ₂ +2LiH system	Torre, F., Valentoni, A., Milanese, C., Pistidda, C., Marini, A., Dornheim, M., Enzo, S., Mulas, G., Garroni, S.	Journal of Alloys and Compounds	645	S1	S284	S287	2015	2.999	AEM
175	Magnetic microgels for drug targeting applications: Physical-chemical properties and cytotoxicity evaluation	Turcu, Rodica; Craciunescu, Izabell; Garamus, Vasil M.; Janko, Christina; Lyer, Stefan; Tietze, Rainer; Alexiou, Christoph; Vekas, Ladislau	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	380		307	314	2015	1.970	AEM / MML

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176	Analysis of stability and viscoelastic properties of melts of polystyrene-block-polyisoprene diblock copolymers in oscillatory shear and creep-recovery experiments	Ulrich A. Handge, Taida Gil Haenelt, Prokopios Georgopoulos, Clarissa Abetz, Sofia Rangou, Doreen Alisch, Ulla Vainio, Andreas Meyer and Volker Abetz	AIP Conf. Proc.		1664	170001		2015	Proceedings	AEM
177	Effect of tool rotational speed on the microstructure and mechanical properties of bobbin tool friction stir welding of Al-Li alloy	Wang, F.F., Li, W.Y., Shen, J., Hu, S.Y., dos Santos, J.F.	Materials and Design	86		933	940	2015	3.501	AEM
178	Nanoporous-gold-based composites: toward tensile ductility	Wang, Ke; Kobler, Aaron; Kuebel, Christian; Jelitto, Hans; Schneider, Gerold; Weissmueller, Joerg	NPG ASIA MATERIALS	7				2015	10.118	AEM
179	Nucleation and thermal stability of carbide precipitates in high Nb containing TiAl alloys	Wang, L., Gabrisch, H., Lorenz, U., Schimansky, F.-P., Schreyer, A., Stark, A., Pyczak, F.	Intermetallics	66		111	119	2015	2.131	AEM
180	Perovskite Ti3/AlC carbide splitting in high Nb containing TiAl alloys	Wang, L., Gabrisch, H., Lorenz, U., Schimansky, F.-P., Stark, A., Pyczak, F.	Materials Research Society Symposium Proceedings	1760		31	36	2015	Conference Paper	AEM
181	Effects of carbon content, annealing condition and internal defects on the nucleation, growth and coarsening of P-type carbides in high niobium containing TiAl alloys	Wang, L., Pyczak, F., Gabrisch, H., Lorenz, U., Münch, M., Schimansky, F.-P., Schreyer, A., Stark, A.	Materials Research Society Symposium Proceedings	1760		61	66	2015	Conference Paper	AEM
182	The effect of temperature on supported dipalmitoylphosphatidylcholine (DPPC) bilayers: Structure and lubrication performance	Wang, Min; Zander, Thomas; Liu, Xiaoyan; Liu, Chao; Raj, Akanksha; Wieland, D. C. Florian; Garamus, Vasil M.; Willumeit-Roemer, Regine; Claesson, Per Martin; Dedinaite, Andra	JOURNAL OF COLLOID AND INTERFACE SCIENCE	445		84	92	2015	3.368	AEM / MML
183	Tensile properties of Al-12Si matrix composites reinforced with Ti-Al-based particles	Wang, Z.; Prashanth, K. G.; Chaubey, A. K.; Loeber, L.; Schimansky, F. P.; Pyczak, F.; Zhang, W. W.; Scudino, S.; Eckert, J.	JOURNAL OF ALLOYS AND COMPOUNDS	630		256	259	2015	2.999	AEM
184	An Investigation on Hot Tearing of Mg-4.5Zn-(0.5Zr) Alloys with Y Additions	Wang, Zhi; Song, Jiangfeng; Huang, Yuanding; Srinivasan, Amirthalingam; Liu, Zheng; Kainer, Karl Ulrich; Hort, Norbert	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	46A	5	2108	2118	2015	1.730	AEM
185	CaO dissolution during melting and solidification of a Mg-10 wt.% CaO alloy detected with in situ synchrotron radiation diffraction	Wiese, B.; Mendis, C. L.; Tolnai, D.; Stark, A.; Schell, N.; Reichel, H. -P.; Brueckner, R.; Kainer, K. U.; Hort, N.	JOURNAL OF ALLOYS AND COMPOUNDS	618		64	66	2015	2.999	AEM / MML
186	Editorial Special issue "Biodegradable magnesium as implant material"	Willumeit-Römer, R., Weinberg, A	BioNanoMaterials	16	1	1	2	2015	Scopus	AEM
187	A continuum mechanical model for the description of solvent induced swelling in polymeric glasses: Thermomechanics coupled with diffusion	Wilmers, J.; Bargmann, S.	EUROPEAN JOURNAL OF MECHANICS A-SOLIDS	53		10	18	2015	1.678	AEM
188	Corrosion fatigue assessment of creep-resistant magnesium alloy Mg-4Al-2Ba-2Ca in aqueous sodium chloride solution	Wittke, P., Klein, M., Dieringa, H., Walther, F.	International Journal of Fatigue	83		59	65	2015	2.929	AEM
189	Magnesium powder injection moulding for biomedical application	Wolff, M.; Schaper, J. G.; Dahms, M.; Ebel; Kainer, I, K.; Klassen, T.	Powder Injection Moulding - International	9	1	61	64	2015	Scopus	AEM

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190	CO ₂ enrichment from flue gas for the cultivation of algae - a field test	Wolff, T., Brinkmann, T., Kerner, M., Hindersin, S.	Greenhouse Gases: Science and Technology					2015	-	AEM
191	Effects of extracellular magnesium extract on the proliferation and differentiation of human osteoblasts and osteoclasts in coculture	Wu, Lili; Feyerabend, Frank; Schilling, Arndt F.; Willumeit-Roemer, Regine; Luthringer, Berengere J. C.	ACTA BIOMATERIALIA	27		294	304	2015	6.025	AEM
192	High temperature mechanical behavior of an extruded Mg-11Gd-4.5Y-1Nd-1.5Zn-0.5Zr (wt%) alloy	Yu, Z., Huang, Y., Dieringa, H., Lakshi Mendis, C., Guan, R., Hort, N., Meng, J.	Materials Science and Engineering A	645		213	224	2015	Scopus	AEM
193	Microstructural evolution and mechanical properties of Mg-11Gd-4.5Y-1Nd-1.5Zn-0.5Zr alloy prepared via pre-ageing and hot extrusion	Yu, Zijian; Huang, Yuanding; Mendis, Chamini Lakshi; Hort, Norbert; Meng, Jian	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	624		23	31	2015	Scopus	AEM
194	Fabrication of a high strength Mg-11Gd-4.5Y-1Nd-1.5Zn-0.5Zr (wt%) alloy by thermomechanical treatments	Yu, Zijian; Huang, Yuanding; Qiu, Xin; Wang, Guanfu; Meng, Fanzhi; Hort, Norbert; Meng, Jian	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	622		121	130	2015	Scopus	AEM
195	Aqueous corrosion behavior of creep resistant Mg-Al-Ba-Ca alloys in sodium chloride solutions	Zander, D.; Zumdick, N. A.; Schnatterer, C.; Dieringa, H.	MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION	66	11	1315	1325	2015	1.373	AEM
196	Immiscible polydiene blocks in linear copolymer and terpolymer sequences	Zapsas, G., Moschovas, D., Ntetsikas, K., Rangou, S., Lee, J.-H., Thomas, E.L., Zafeiropoulos, N.E., Avgeropoulos, A.	Journal of Polymer Science, Part B: Polymer Physics	53	17	1238	1246	2015	3.830	AEM
197	Trace Carbon in Biomedical Beta-Titanium Alloys: Recent Progress	Zhao, D., Ebel, T., Yan, M., Qian, M.	JOM	67	10	2236	2243	2015	1.757	AEM
198	Sintering behavior and mechanical properties of a metal injection molded Ti-Nb binary alloy as biomaterial	Zhao, Dapeng; Chang, Keke; Ebel, Thomas; Nie, Hemin; Willumeit, Regine; Pyczak, Florian	JOURNAL OF ALLOYS AND COMPOUNDS	640		393	400	2015	2.999	AEM
199	Evaluation of Magnesium Die-Casting Alloys for Elevated Temperature Applications: Microstructure, Tensile Properties, and Creep Resistance	Zhu, Suming; Easton, Mark A.; Abbott, Trevor B.; Nie, Jian-Feng; Dargusch, Matthew S.; Hort, Norbert; Gibson, Mark A.	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	46A	8	3543	3554	2015	1.730	AEM
200	The study of the behavior of constrained groove pressed magnesium alloy after heat treatment	Zimina, M., Bohlen, J., Letzig, D., Kurz, G., Poková, M., Knapek, M., Zmík, J., Cieslar, M.	Acta Physica Polonica A	128	4	775	778	2015	0.578	AEM

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1	Integrated process for preparing porous, surface functionalized polyetherimide microparticles	Basu, Sayantani; Heuchel, Matthias; Weigel, Thomas; Kratz, Karl; Lendlein, Andreas	Polym. Adv. Technol	26	12	1447	1455	2015	1.757	BIFTM
2	Robot Assisted Synthesis and Characterization of Polyester-based Polyurethanes	Baudis, Stefan; Lendlein, Andreas; Behl, Marc	Mater. Res. Soc. Symp. Proc	1718		109	115	2015	Proceedings	BIFTM
3	Thermoresponsive Nanodevices in Biomedical Applications	Bergueiro, Julian; Calderon, Marcelo	MACROMOLECULAR BIOSCIENCE	15	2	183	199	2015	3.851	BIFTM
4	Release of uremic retention solutes from protein binding by hypertonic predilution hemodiafiltration	Böhringer, F; Jankowski, V.; Gajjala, PR; Zidek, W.; Jankowski, J.	ASAIO J	61	1	55	60	2015	1.516	BIFTM
6	Effect of temperature on platelet adherence	Braune, Steffen; Fröhlich, G. M.; Lendlein, Andreas; Jung, Friedrich	Clin Hemorheol Microcirc	61	4	681	688	2015	2.242	BIFTM
5	Quantification of adherent platelets on polymer-based biomaterials. Comparison of colorimetric and microscopic assessment	Braune, Steffen; Zhou, Shou; Groth, Benjamin; Jung, Friedrich	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	61		225	236	2015	2.242	BIFTM
7	Macroscopic and Microscopic Elasticity of Heterogeneous Polymer Gels	DiLorenzo, Fanny; Hellwig, Johannes; von Klitzing, Regine; Seiffert, Sebastian	ACS Macro Letters	4		698	703	2015	5.760	BIFTM
8	Influence of film thickness on the crystalline morphology of a copolyesterurethane comprising crystallizable poly(epsilon-caprolactone) soft segments	Fang, Liang; Wischke, Christian; Kratz, Karl; Lendlein, Andreas	CLINICAL HEMORHEOLOGY AND MICRO- CIRCULATION	60	1	77	87	2015	2.242	BIFTM
9	Reversible Shape-Memory Properties of Surface Functionalizable Crystallizable Crosslinked Terpolymer	Farhan, Muhammad; Reddy, C. S.; Nöchel, Ulrich; Kratz, Karl; Lendlein, Andreas	Polym Adv Technol	26	12	1421	1427	2015	1.757	BIFTM
10	Design of Decorin-Based Peptides that Bind to Collagen I and their Potential as Adhesion Moieties in Biomaterials	Federico, S., Pierce, B.F., Piluso, S., Wischke, C., Lendlein, A., Neffe, A.T.	Angewandte Chemie - International Edition	54	37	10980	10984	2015	11.261	BIFTM
11	The distribution of whole blood viscosity, its determinants and relationship with arterial blood pressure in the community: cross-sectional analysis from the Gutenberg Health Study	Gori, Tommaso; Wild, Phillip S.; Schnabel, Ranate; Blankenberg, Stefan; Schulz, Andreas; Pfeiffer, Norbert; Blettner, Maria; Beutel, Manfred E., Forconi, Sandro; Jung, Friedrich	Therapeutic Advances in Cardiovascular Disease	9		354	365	2015	Scopus	BIFTM
12	Immuno-compatibility of amphiphilic ABA triblock copolymer based hydrogel films for biomedical applications	Görs, Julia; Roch, Toralf; Taruvel, Lucile; Behl, Marc; Ma, Nan; Lendlein, Andreas	Polym Adv. Technol.	26	12	1378	1386	2015	1.757	BIFTM
13	Mechanical characterization of oligo(ethylene glycol)-based hydrogels by dynamic nanoindentation experiments	Guglielmi, P. O.; Herbert, E. G.; Tartivel, L.; Behl, M.; Lendlein, A.; Huber, N.; Lilleodden, E. T.	JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS	46		1	10	2015	3.417	AEM / BIFTM
14	REDV-linked biodegradable polymeric micelles as the transfer vector of ZNF580 for the proliferation of endothelial cells	Hao, Xuefang; Lv, Juan ; Li, Qian; Fan, Jiaxu; Feng, Yakai; Behl, Marc ; Lendlein, Andreas	J. Control Release	213		E123	E123	2015	7.705	BIFTM
15	CREVDW-Linked Polymeric Micelles As a Targeting Gene Transfer Vector for Selective Transfection and Proliferation of Endothelial Cells	Hao, Xuefang; Li, Qian; Lv, Juan; Yu, Li; Ren, Xiangkui; Zhang, Li; Feng, Yakai; Zhang, Wencheng	ACS APPLIED MATERIALS & INTERFACES	7	22	12128	12140	2015	6.725	BIFTM

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16	Modeling the heat transfer in magneto-sensitive shape-memory polymer nanocomposites with dynamically changing surface area to volume ratios	Heuchel, M.; Razaq, M. Y.; Kratz, K.; Behl, M.; Lendlein, A.	POLYMER	65		215	222	2015	3.562	BIFTM
17	Thermomechanical Characterization of a Series of Crosslinked Poly[ethylene-co-(vinyl acetate)] (PEVA) Copolymers	Heuchel, Matthias; Al-Qaisi, Laith; Kratz, Karl; Nöchel, Ulrich; Behl, Marc, Lendlein, Andreas	Mater. Res. Soc. Symp. Proc	1718		123	130	2015	Proceedings	BIFTM
18	Biocompatibility of a novel zinc stent with a closed-cell-design	Hiebl, Bernhard; Nennig, E.; Schiestel, S.; Kovacs, A.; Jung, Friedrich	Clin Hemorheol Microcirc	61		205	211	2015	2.242	BIFTM
19	Selective cell targeting and lineage tracing of human induced pluripotent stem cells using recombinant avian retroviruses	Hildebrand, L., Seemann, P., Kurtz, A., Hecht, J., Contzen, J., Gossen, M., Stachelscheid, H.	Cellular and Molecular Life Sciences	72	23	4671	4680	2015	5.808	BIFTM
20	Bioactive organic-inorganic poly(CLMA-co-HEA)/silica nanocomposites	Ivashchenko, S., Escobar Ivirico, J.L., García Cruz, D.M., Campillo-Fernández, A., Ferrer, G.G., Pradas, M.M.	Journal of Biomaterials Applications	29	8	1096	1108	2015	2.197	BIFTM
21	Anisotropic Composites of Desaminotyrosine and Desaminotyrosyl Tyrosine Functionalized Gelatin and Bioactive Glass Microparticles,	Julich-Gruner, Konstanze K.; Lendlein, Andreas; Boccaccini, Aldo R.; Neffe, Axel T.	Mater. Res. Soc. Symp. Proc	1718		9	14	2015	Proceedings	BIFTM
22	Advanced Functional Polymers addressing the needs of modern medicine	Julich-Gruner, Konstanze K.; Pandit, Abhay; Lendlein, Andreas	Macromol Rapid Comm	36		1891	1896	2015	4.941	BIFTM
23	Designing advanced functional polymers for medical applications	Julich-Gruner, Konstanze K.; Pandit, Abhay; Lendlein, Andreas	Polym Adv Technol	26	12	1357	1358	2015	1.757	BIFTM
24	Synthesis and characterization of star-shaped oligo(ethylene glycol) with tyrosine derived moieties under variation of their molecular weight	Julich-Gruner, Konstanze K.; Roch, Toralf; Ma, Nan; Neffe, Axel T.; Lendlein, Andreas	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	60	1	13	23	2015	2.243	BIFTM
25	Surface Modification of Polycarbonate Urethane with Zwitterionic Polynorbornene via Thiol-ene Click-Reaction to Facilitate Cell Growth and Proliferation	Khan, Musammir; Yang, Jing; Shi, Changcan; Feng, Yakai; Zhang, Wencheng; Gibney, Katie; Tew, Gregory N.	MACROMOLECULAR MATERIALS AND ENGINEERING	300	8	802	809	2015	2.661	BIFTM
26	Manipulation of polycarbonate urethane bulk properties via incorporated zwitterionic polynorbornene for tissue engineering applications	Khan, Musammir; Yang, Jing; Shi, Changcan; Feng, Yakai; Zhang, Wencheng; Gibney, Katie; Tew, Gregory N.	RSC ADVANCES	5	15	11284	11292	2015	3.840	BIFTM
27	Surface tailoring for selective endothelialization and platelet inhibition via a combination of SI-ATRP and click chemistry using Cys-Ala-Gly-peptide	Khan, Musammir; Yang, Jing; Shi, Changcan; Lv, Juan; Feng, Yakai; Zhang, Wencheng	ACTA BIOMATERIALIA	20		69	81	2015	6.025	BIFTM
28	Spray- and laser-assisted biomaterial processing for fast and efficient autologous cell-plus-matrix tissue engineering	Klopsch, C.; Gäbel, R.; Kaminski, A.; Mark, P.; Wang, Weiwei; Toelk, A.; Delyagina, E.; Kleiner, G.; Koch, L.; Chichkov, B.; Mela, P.; Jockenhoovel, S.; Ma, Nan; Steinhoff, G.	Journal of Tissue Engineering and Regenerative Medicine	9	12	E177	E190	2015	5.199	BIFTM
29	Influence of the coating with extracellular matrix and the number of cell passages on the endothelialization of a polystyrene surface	Krueger, A.; Fuhrmann, R.; Jung, F.; Franke, R. P.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	60	1	153	161	2015	2.242	BIFTM
30	Morphology of primary human venous endothelial cell cultures before and after culture medium exchange	Krüger-Genge, Anne; Fuhrmann, R. ; Jung, Friedrich; Franke, Ralf-Peter	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	61		151	156	2015	2.242	BIFTM

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31	Effect of extracts of poly(ether imide) microparticles on cytotoxicity, ROS generation and proinflammatory effects on human monocytic (THP-1) cells	Kumar, R.K.; Basu, S.; Lemke, H.-D.; Jankowski, J.; Kratz, Karl; Lendlein, Andreas; Tetali, S.D.	Clin Hemorheol Microcirc	61	4	667	680	2015	2.242	BIFTM
32	Titanium phosphate glass microspheres as microcarriers for in vitro bone cell tissue engineering	Lakhkar, N.J., Peticone, C., De Silva-Thompson, D., Wall, I.B., Salih, V., Knowles, J.C.	RSC Smart Materials	2015-January	10	105	132	2015	Scopus	BIFTM
33	Advanced Functional Polymers in Medicine (AFPM)	Lendlein, Andreas; Neffe, Axel T.; Jerome, Christine	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	60	1	1	2	2015	2.245	BIFTM
34	Preface	Lendlein, Andreas; Tirelli, Nicola; Weiss, Robert; Xie, Tao	Mater. Res. Soc. Symp. Proc.	1718		ix		2015	Proceedings	BIFTM
35	Nanoparticles Complexed with Gene Vectors to Promote Proliferation of Human Vascular Endothelial Cells	Li, Qian; Shi, Changcan; Zhang, Wencheng; Behl, Marc; Lendlein, Andreas; Feng, Yakai	ADVANCED HEALTHCARE MATERIALS	4	8	1225	1235	2015	5.797	BIFTM
36	Influence of glycidylmethacrylate functional groups attached to gelatin on the formation and properties of hydrogels	Löwenberg, Candy; Julich-Gruner, Konstanze K.; Neffe, Axel T.; Lendlein, Andreas	Mater. Res. Soc. Symp. Proc.	1718		103	108	2015	Proceedings	BIFTM
37	PEI modified biodegradable complex micelles as gene transfer vector for proliferation of ECs	Lv, Juan; Hao, Xuefang; Yang, Jing; Feng, Yakai; Behl, Marc; Lendlein, Andreas	J. Control Release	213		E 60	E60	2015	7.705	BIFTM
38	Effect of diisocyanate linkers on the degradation characteristics of copolyester urethanes as potential drug carrier matrices	Mathew, S., Baudis, S., Neffe, A.T., Behl, M., Wischke, C., Lendlein, A.	European Journal of Pharmaceutics and Biopharmaceutics	95		18	16	2015	3.383	BIFTM
39	Stimuli-responsive nanogel composites for biomedical applications	Molina, Maria; Asadian-Birjand, Mazdak; Balach, Juan; Bergueiro, Julian; Miceli, Eerico; Calderón, Marcelo	Chemical Society Reviews	44		6161	6186	2015	33.383	BIFTM
40	Going Beyond Compromises in Multifunctionality of Biomaterials	Neffe, Axel T.; Lendlein, Andreas	ADVANCED HEALTHCARE MATERIALS	4	5	642	645	2015	5.797	BIFTM
41	One Step Creation of Multifunctional 3D Architected Hydrogels Inducing Bone Regeneration	Neffe, Axel T.; Pierce, Benjamin F.; Tronci, Giuseppe; Ma, Nan; Pittermann, Erik; Gebauer, Tim; Frank, Oliver; Schossig, Michael; Xu, Xun; Willie, Bettina M.; Forner, Michele; Ellinghaus, Agnes; Lienau, Jasmin; Duda, Georg N.; Lendlein, Andreas	ADVANCED MATERIALS	27	10	1738	1744	2015	17.493	BIFTM
42	Relation -between Nanostructural Changes and Macroscopic Effects during Reversible Temperature-Memory Effect under Stress-Free Conditions in Semicrystalline Polymer Networks	Nöchel, Ulrich; Kratz, Karl; Behl, Marc; Lendlein, Andreas	Mater. Res. Soc. Symp. Proc	1718		41	48	2015	Proceedings	BIFTM
43	Nanostructural changes in crystallizable controlling units determine the temperature-memory of polymers	Noechel, Ulrich; Reddy, Chaganti Srinivasa; Wang, Ke; Cui, Jing; Zizak, Ivo; Behl, Marc; Kratz, Karl; Lendlein, Andreas	JOURNAL OF MATERIALS CHEMISTRY A	3	16	8284	8293	2015	7.443	BIFTM
44	Competitive Protein Adsorption to Soft Polymeric Layers: Binary Mixtures and Comparison to Theory	Oberle, Michael; Yigit, Cemil; Angioletti-Uberti, Stefano; Dzubiella, Joachim; Ballauff, Matthias	J Phys Chem B	119		3250	3258	2015	3.300	BIFTM
45	Growth Factor-Bearing Polymer Brushes - Versatile Bioactive Substrates Influencing Cell Response	Psarra, E., Foster, E., König, U., You, J., Ueda, Y., Eichhorn, K.-J., Müller, M., Stamm, M., Revzin, A., Uhlmann, P.	Biomacromolecules	16	11	3530	3542	2015	5.750	BIFTM

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46	Purity of mushroom tyrosinase as a biocatalyst for biomaterial synthesis affects the stability of therapeutic peptides	Racheva, Miroslava; Romero, Oscar; Julich-Gruner, Konstanze K.; Ulrich, Anne S.; Wischke, Christian; Lendlein, Andreas	Mater. Res. Soc. Symp. Proc.	1718		85	90	2015	Proceedings	BIFTM
47	Thermally Controlled Shape-Memory Investigations of Nanocomposites Based on Oligo(ω -pentadecalactone) and Magnetic Nanoparticles Acting as Crosslinks	Razzaq, Muhammad Y.; Behl, Marc, Lendlein, Andreas	Mater. Res. Soc. Symp. Proc	1718		71	76	2015	Proceedings	BIFTM
48	Surface modification and endothelialization of biomaterials as potential scaffolds for vascular tissue engineering applications	Ren, Xiangkui; Feng, Yakai; Guo, Jintang; Wang, Haixia; Li, Qian; Yang, Jing; Hao, Xuefang; Lv, Juan; Ma, Nan; Li, Wenzhong	CHEMICAL SOCIETY REVIEWS	44	15	5680	5742	2015	33.383	BIFTM
49	Immuno-compatibility of desaminotyrosine and desaminotyrosyl tyrosine functionalized star-shaped oligo(ethylene glycol)s with different molecular weights	Roch, Toralf; Juklich-Gruner, Konstanze K.; Neffe, Axel T.; Ma, Nan; Lendlein, Andreas	Mater. Res. Soc. Symp. Proc	1718		97	102	2015	Proceedings	BIFTM
50	Polymeric inserts differing in their chemical composition as substrates for dendritic cell cultivation	Roch, Toralf; Kratz, Karl; Ma, Nan; Lendlein, Andreas	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	61		347	357	2015	2.242	BIFTM
51	Cell-based detection of microbial biomaterial contaminations	Roch, Toralf; Ma, Nan; Kratz, Karl; Lendlein, Andreas	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	60	1	51	63	2015	2.242	BIFTM
52	Copolymer Networks From Oligo(epsilon-caprolactone) and n-Butyl Acrylate Enable a Reversible Bidirectional Shape-Memory Effect at Human Body Temperature	Saatchi, Mersa; Behl, Marc; Noechel, Ulrich; Lendlein, Andreas	MACROMOLECULAR RAPID COMMUNICATIONS	36	10	880	884	2015	4.941	BIFTM
53	Circular Dichroism: A powerful tool for studying biomineralization promoter proteins	Sarem, Melika; Lüdeke, Steffen	MRS Bulletin	40	6	490	498	2015	5.667	BIFTM
54	Encasement of metallic cardiovascular stents with endothelial cell-selective Copolyetheresterurethane microfibers	Sauter, Tilman; Geiger, Brett; Kratz, Karl; Lendlein, Andreas	Polym Advan Technol	26		1209	1216	2015	1.757	BIFTM
55	Influence of intermediate degradation products on the hydrolytic degradation of poly[(rac-lactide)-co-glycolide] at the air-water interface	Schöne, Anne-Christin,	Polym Adv Technol	26	12	1402	1410	2015	1.757	BIFTM
56	Surface pressure-induced isothermal 2D- to 3D-transitions in langmuir films of Poly(epsilon-caprolactone)s and Oligo(epsilon-caprolactone) based polyesterurethanes	Schöne, Anne-Christin; Kratz, Karl; Schulz, Burkhard; Reiche, Jürgen; Santer Svetlana; Lendlein, Andreas	Polym Adv. Technol	26	12	1411	1420	2015	1.757	BIFTM
57	Influence of Diurethane Linkers on the Langmuir Layer Behavior of Oligo[(rac-lactide)-co-glycolide] Based Polyesterurethanes	Schöne, Anne-Christin; Richau, Klaus; Kratz, Karl; Schulz, Burkhard; Lendlein, Andreas	Macromol Rapid Comm	36		1910	1915	2015	4.941	BIFTM
58	Adipose-derived human mesenchymal stem cells induce long-term neurogenic and anti-inflammatory effects and improve cognitive but not motor performance in a rat model of Parkinson's disease	Schwerk, Anne; Altschueler, Jennifer; Roch, Manfred; Gossen, Manfred; Winter, Christine; Berg, Juergen; Kurtz, Andreas; Akyuez, Levent; Steiner, Barbara	REGENERATIVE MEDICINE	10	4	431	446	2015	2.786	BIFTM
59	Human adipose-derived mesenchymal stromal cells increase endogenous neurogenesis in the rat subventricular zone acutely after 6-hydroxydopamine lesioning	Schwerk, Anne; Altschueler, Jennifer; Roch, Manfred; Gossen, Manfred; Winter, Christine; Berg, Juergen; Kurtz, Andreas; Steiner, Barbara	CYTOTHERAPY	17	2	199	214	2015	3.293	BIFTM
60	Faster droplet production by delayed surfactant-addition in two-phase microfluidics to form thermo-sensitive microgels	Seiffert, Sebastian; Friess, Fabian; Lendlein, Andreas; Wischke, Christian	JOURNAL OF COLLOID AND INTERFACE SCIENCE	452		38	42	2015	3.368	BIFTM

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61	REDV Peptide Conjugated Nanoparticles/pZNF580 Complexes for Actively Targeting Human Vascular Endothelial Cells	Shi, Changcan; Li, Qian; Zhang, Wencheng; Feng, Yakai; Ren, Xiangkui	ACS APPLIED MATERIALS & INTERFACES	7	36	20389	20399	2015	6.725	BIFTM
62	Hydrophilic PCU scaffolds prepared by grafting PEGMA and immobilizing gelatin to enhance cell adhesion and proliferation	Shi, Changcan; Yuan, Wenjie; Khan, Musammir; Li, Qian; Feng, Yakai; Yao, Fanglian; Zhang, Wencheng	MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS	50		201	209	2015	3.088	BIFTM
63	Surface characterization and protein interaction of a series of model poly[acrylonitrile-co-(N-vinyl pyrrolidone)] nanocarriers for drug targeting	Staufenbiel, Sven; Merino, Marian; Li, Wenzhong; Huang, Mao-Dong; Baudis, Stefan; Lendlein, Andreas; Mueller, Rainer H.; Wischke, Christian	INTERNATIONAL JOURNAL OF PHARMACEUTICS	485	1-2	87	96	2015	3.650	BIFTM
64	Photo-Reversibility of Cinnamylidene Acetic Acid Derived Crosslinks in Poly(ϵ -caprolactone) Networks	Störmann, Florian; Wischke, Christian; Lendlein, Andreas	Mater. Res. Soc. Symp. Proc.	1718		49	54	2015	Proceedings	BIFTM
65	Adsorption capacity of poly(ether imide) microparticles to uremic toxins	Tetali, S. D.; Jankowski, V.; Luetzow, Karola; Kratz, Karl; Lendlein, Andreas; Jankowski, J.	Clin Hemorheol Microcirc	61	4	657	665	2015	2.242	BIFTM
66	The interaction of human macrophage subsets with silicone as a biomaterial,	Vijaya Bhaskar, Thanga B; Ma, Nan; Lendlein, Andreas; Roch, Toralf	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	61		119	133	2015	2.242	BIFTM
67	Single and competitive protein adsorption on polymeric surfaces	Vijaya Bhaskar, Thanga B; Roch, Toralf; Romero, Oscar; Ma, Nan; Kratz, Karl; Lendlein, Andreas	Polym Adv Technol	26	12	1387	1393	2015	1.757	BIFTM
68	Conditional Ultrasound Sensitivity of Poly[[N-isopropylacrylamide)-co-(vinyl imidazole)] Microgels for Controlled Lipase Release	Vukicevic, Radovan; Neffe, Axel T.; Lützwow, Karola; Pierce, Benjamin F.; Lendlein, Andreas	Macromol Rapid Comm.	36		1891	1896	2015	4.941	BIFTM
69	Targeting REDV peptide functionalized polycationic gene carrier for enhancing the transfection and migration capability of human endothelial cells	Wang, Haixia; Feng, Yakai; Yang, Jing; Guo, Jintang; Zhang, Wencheng	JOURNAL OF MATERIALS CHEMISTRY B	3	16	3379	3391	2015	4.726	BIFTM
71	Characterization of Bi-Layered Magnetic Nanoparticles synthesized via Two-Step Surface-Initiated Ring-Opening Polymerization	Wang, Li; Baudis, Stefan; Kratz, Karl; Lendlein, Andreas	Pure Applied Chemistry	87	11-12	1085	1097	2015	2.492	BIFTM
70	The interaction of adipose-derived human mesenchymal stem cells and polyether ether ketone	Wang, Weiwei; Kratz, Karl; Behl, Marc; Yan, Wan; Liu, Yue; Xu, Xun; Baudis, Stefan; Li, Zhengdong; Kurtz, A.; Lendlein, Andreas, Ma, Nan	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	61		301	321	2015	2.242	BIFTM
72	Universal Polymer Coatings and Their Representative Biomedical Applications	Wei, Q.; Haag, Rainer	Mater Horizons	2		567	577	2015	Scopus	BIFTM
73	Poly(n-butylcyanoacrylate) Nanoparticles as Carriers for Adenosine triphosphate,	Wischke, Christian; Weigel, Judith; Lendlein, Andreas	Mater. Res. Soc. Symp. Proc.	1718		131	136	2015	Proceedings	BIFTM
74	Influence of deformation temperature on structural variation and shape-memory effect of a thermoplastic semi-crystalline multiblock copolymer	Yan, W.; Fang, L.; Noechel, U.; Kratz, K.; Lendlein, A.	EXPRESS POLYMER LETTERS	9	7	624	635	2015	2.761	BIFTM
75	Modeling of stress relaxation of a semi-crystalline multiblock copolymer and its deformation behavior	Yan, Wan; Fang, Liang; Heuchel, Matthias; Kratz, Karl; Lendlein, Andreas	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	60	1	109	120	2015	2.242	BIFTM

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76	Biodegradable carrier/gene complexes to mediate the transfection and proliferation of human vascular endothelial cells	Yang, Jing; Feng, Yakai; Zhang, Li;	Polym Adv. Technol	26	12	1370	1377	2015	1.757	BIFTM
77	Antimicrobial surfaces grafted random copolymers with REDV peptide beneficial for endothelialization	Yang, Ying; Khan, Musamir; Zhang, Li; Ren, Xiangkui; Guo, Jintang; Fang, Yakai; Wie, Shuping; Zhang, Wencheng	J Mater Chem B	3		7682	7697	2015	4.726	BIFTM
78	Like-charged protein-polyelectrolyte complexation driven by charge patches	Yigit, Cemil; Heyda, Jan; Ballauff, Matthias; Dzubiella, Joachim	J Chem Phys	143		064905-1	064905-12	2015	3.017	BIFTM
79	PLGA/SF blend scaffolds modified with plasmid complexes for enhancing proliferation of endothelial cells	Yu, Li; Feng, Yakai; Li, Qian; Hao, Xuefang; Liu, Wen; Zhou, Wei; Shi, Changcan; Ren, Xiangkui; Zhang, Wencheng	REACTIVE & FUNCTIONAL POLYMERS	91-92		19	27	2015	2.515	BIFTM
80	Interaction of human serum albumin with short polyelectrolytes: a study by calorimetry and computer simulations	Yu, Shun; Xu, Xiao; Yigit, Cemil; van der Giet, Markus; Zidek, Walter; Jankowski, Joachim; Dzubiella, Joachim; Ballauff, Matthias	Soft Matter	11		4630	4639	2015	4.029	BIFTM
81	Shape-memory properties of degradable electrospun scaffolds based on hollow microfibers	Zhang, Quanchao; Kratz, Karl; Lendlein, Andreas	Polym Adv Technol	26	12	1468	1475	2015	1.757	BIFTM
82	Shape-Memory Capability of Copolyetheresterurethane Microparticles Prepared via Electrospinning	Zhang, Quanchao; Sauter, Tilman; Fang, Liang; Kratz, Karl; Lendlein, Andreas	MACROMOLECULAR MATERIALS AND ENGINEERING	300	5	522	530	2015	2.661	BIFTM
83	Electrospun scaffolds of silk fibroin and poly(lactide-co-glycolide) for endothelial cell growth	Zhou, Wei; Feng, Yakai; Yang, Jing; Fan, Jiayu; Lv, Juan; Zhang, Li; Guo, Jintang; Ren, Xiangkui; Zhang, Wencheng	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE	26	56	1	14	2015	2.587	BIFTM

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1	Identification of large channels in cationic PEGylated cubosome nanoparticles by synchrotron radiation SAXS and Cryo-TEM imaging	Angelov, Borislav; Angelova, Angelina; Drechsler, Markus; Garamus, Vasil M.; Mutafchieva, Rada; Lesieur, Sylviane	SOFT MATTER	11	18	3686	3692	2015	4.029	AEM / MML
2	Fluence thresholds for grazing incidence hard x-ray mirrors	Aquila, A., Sobierajski, R., Ozkan, C., Hájková, V., Burian, T., Chalupský, J., Juha, L., Störmer, M., Bajt, S., Klepka, M.T., Dłuzewski, P., Morawiec, K., Ohashi, H., Koyama, T., Tono, K., Inubushi, Y., Yabashi, M., Sinn, H., Tschentscher, T., Mancuso, A.P., Gaudin, J.	Applied Physics Letters	106	24			2015	3.302	MML
3	Phase transformation kinetics during continuous heating of a beta-quenched Ti-10V-2Fe-3Al alloy	Barriobero-Vila, Pere; Requena, Guillermo; Warchomicka, Fernando; Stark, Andreas; Schell, Norbert; Buslaps, Thomas	JOURNAL OF MATERIALS SCIENCE	50	3	1412	1426	2015	2.371	AEM / MML
4	Cross-sectional X-ray nano-diffraction and -reflectivity analysis of multilayered AlTiN-TiSiN thin films: Correlation between residual strain and bi-layer period	Bartosik, M., Arndt, M., Rachbauer, R., Krywka, C., Koller, C.M., Keckes, J., Mayrhofer, P.H.	Scripta Materialia	107		153	156	2015	3.224	MML
5	Influence of iridium on the properties of γ -strengthened Co-base superalloys	Bauer, A., Neumeier, S., Pyczak, F., and Göken, M.	Advanced Engineering Materials	17	6	748	754	2015	1.758	MML
6	Large-scale parallel alignment of platelet-shaped particles through gravitational sedimentation	Behr, Sebastian; Vainio, Ulla; Mueller, Martin; Schreyer, Andreas; Schneider, Gerold A.	SCIENTIFIC REPORTS	5		9984		2015	5.578	MML
7	Ceramic micro-injection molded nozzles for serial femtosecond crystallography sample delivery	Beyerlein, K.R.; Adriano, L.; Heymann, M.; Kirian, R.; Knoška, J.; Wilde, F.; Chapman, H.N.; Bajt, S.	REVIEW OF SCIENTIFIC INSTRUMENTS	86	12	125104		2015	1.614	MML
8	Absorption and Phase Contrast X-Ray Imaging in Paleontology Using Laboratory and Synchrotron Sources	Bidola, Pidassa; Stockmar, Marco; Achterhold, Klaus; Pfeiffer, Franz; Pacheco, Mirian L. A. F.; Soriano, Carmen; Beckmann, Felix; Herzen, Julia	MICROSCOPY AND MICROANALYSIS	21	5	1288	1295	2015	1.872	MML
9	Role of deformation temperature on the evolution and heterogeneity of texture during equal channel angular pressing of magnesium	Biswas, Somjeet; Brokmeier, H. -G.; Fundenberger, J. -J.; Suwas, Satyam	MATERIALS CHARACTERIZATION	102		98	102	2015	1.845	MML
10	Structural mouthpart interaction evolved already in the earliest lineages of insects	Blanke, A., Rühr, P.T., Mokso, R., Villanueva, P., Wilde, F., Stapanoni, M., Uesugi, K., Machida, R., Misof, B.	Proceedings of the Royal Society B: Biological Sciences	282	1812			2015	Proceeding	MML
11	Mandibles with two joints evolved much earlier in the history of insects: dicondylis is a synapomorphy of bristletails, silverfish and winged insects	Blanke, Alexander; Machida, Ryuichiro; Szucsich, Nikolaus Urban; Wilde, Fabian; Misof, Bernhard	SYSTEMATIC ENTOMOLOGY	40	2	357	364	2015	2.784	MML
12	Identification and reduction of unwanted stray radiation using an energy- and position-sensitive Compton polarimeter	Blumenhagen, K.-H., Spillmann, U., Gaßner, T., Gumberidze, A., Martin, R., Schell, N., Trosenko, S., Weber, G., and Stöhlker, Th.	Physica Scripta	T161		014032-1	014032-4	2015	1.126	MML
13	Scattering influences in quantitative fission neutron radiography for the in situ analysis of hydrogen distribution in metal hydrides	Boerries, S.; Metz, O.; Pranzas, P. K.; Buecherl, T.; Soellradl, S.; Dornheim, M.; Klassen, T.; Schreyer, A.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	797		158	164	2015	1.216	AEM / MML

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14	Microstructure and mechanical properties of a forged beta-solidifying gamma TiAl alloy in different heat treatment conditions	Bolz, S.; Oehring, M.; Lindemann, J.; Pyczak, F.; Paul, J.; Stark, A.; Lippmann, T.; Schrufer, S.; Roth-Fagaraseanu, D.; Schreyer, A.; Weiss, S.	INTERMETALLICS	58		71	83	2015	2.131	AEM / MML
15	Elastic scattering of linearly polarized hard x-rays	Bumenhagen, KH; Gassner, T; Gumberidze, A; Martin, R; Schell, N; Spillmann, U; Trotsenko, S; Weber, G; Stohlker, T; Edited by:Diaz, C; Rabadan, I; Garcia, G; Mendez, L; Martin, F	Journal of Physics Conference Series	635		92072		2015	0.00	MML
16	Influence of milling parameters on the sorption properties of the LiH-MgB ₂ system doped with TiCl ₃	Busch, N., Jepsen, J., Pistidda, C., Puszkil, J.A., Karimi, F., Milanese, C., Tolkiehn, M., Chaudhary, A.-L., Klassen, T., Dornheim, M.	Journal of Alloys and Compounds	645	S1	S299	S303	2015	2.999	AEM / MML
17	In situ synchrotron radiation diffraction study of the role of Gd, Nd on the elevated temperature compression behavior of ZK40	Buzolin, R. H.; Tolnai, D.; Mendis, C. L.; Stark, A.; Schell, N.; Pinto, H.; Kainer, K. U.; Hort, N.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	640		129	136	2015	2.567	AEM / MML
18	Observation of an atomic exchange bias effect in DyCo ₄ film	Chen, K ; Lott, D; Radu, F; Choueikani, F; Otero, E; Ohresser, P	SCIENTIFIC REPORTS	5		18337		2015	5.578	MML
19	Temperature-dependent magnetic properties of ferrimagnetic DyCo ₃ alloy films	Chen, Kai; Lott, Dieter; Radu, Florin; Choueikani, Fadi; Otero, Edwige; Ohresser, Philippe	PHYSICAL REVIEW B	91	2	024409/1	024409/8	2015	3.736	MML
20	Sterically stabilized spongosomes for multidrug delivery of anticancer nanomedicines	Chen, YY; Angelova, A; Angelov, B; Drechsler, M; Garamus, VM; Willumeit-Romer, R; Zou, AH	Journal of Materials Chemistry B	3	39	7734	7744	2015	4.726	MML
21	Application of the eigenstrain approach to predict the residual stress distribution in laser shock peened AA7050-T7451 samples	Coratella, S.; Sticchi, M.; Toparli, M.B.; Fitzpatrick, M.E.; Kashaev, N.	Surface and Coatings Technology	273		39	49	2015	1.998	MML
22	Stress-Induced Lamellar Order in Spider Silk Fibers	Cruz-Chu, ER; Sandeep, P; Greving, I; Mueller, M; Graeter, F	Biophysical Journal	108	2	487A	487A	2015	3.972	MML
23	Multi-level synchrotron radiation-based microtomography of the dental alveolus and its consequences for orthodontics	Dalstra, M.; Cattaneo, P. M.; Laursen, M. G.; Beckmann, F.; Melsen, B.	JOURNAL OF BIOMECHANICS	48	5	801	806	2015	2.751	MML
24	Evaluation of microstructure anisotropy on room and medium temperature ECAP deformed F138 steel	De Vincentis, N.S., Kliauga, A., Ferrante, M., Avalos, M., Brokmeier, H.-G., Bolmaro, R.E.	Materials Characterization	107		98	111	2015	1.845	MML
25	Experimental investigation and numerical description of the damage evolution in a duplex stainless steel subjected to VHCF-loading	Dönges, B., Istomin, K., Söker, M., Schell, N., Krupp, U., Pietsch, U., Fritzen, C.-P., Christ, H.-J.	Materials Science and Engineering A	646		8	18	2015	2.567	MML
26	Time evolution of electron structure in femtosecond heated warm dense molybdenum	Dorchies, F; Recoules, V; Bouchet, J; Fourment, C; Leguay, PM; Cho, BI; Engelhorn, K; Nakatsutsumi, M; Ozkan, C; Tschentscher, T; Harmand, M; Toilekis, S; Stormer, M; Galtier, E; Lee, HJ; Nagler, B; Heimann, PA ; Gaudin, J	Physical Review B	92	14	144201		2015	3.736	MML
27	Particle-size distribution of airborne poly- and perfluorinated alkyl substances	Dreyer, A.; Kirchengorg, T.; Weinberg, I.; Matthias, V.	CHEMOSPHERE	129		142	149	2015	3.340	MML

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28	In-situ study of the time-temperature-transformation behaviour of a multi-phase intermetallic β -stabilised TiAl alloy	Erdely, P., Werner, R., Schwaighofer, E., Clemens, H., and Mayer, S.	Intermetallics	57		17	24	2015	2.131	MML
29	In-situ high-energy x-ray diffraction on an intermetallic β -stabilised \square -TiAl based alloy	Erdely, P., Stark, A., Clemens, H., and Mayer, S.	Berg- und Hüttenmännische Monatshefte	160		221	225	2015	-	MML
30	Monitoring moisture distribution in textile materials using grating interferometry and ptychographic X-ray imaging	Esmaeili, M; Floystad, JB; Hipp, A; Willner, M; Bech, M; Diaz, A; Royset, A; Andreassen, JW; Pfeiffer, F; Breiby, DW	Textile Research Journal	85	1	80	90	2015	1.599	MML
31	Gains and losses of coral skeletal porosity changes with ocean acidification acclimation	Fantazzini, Paola; Mengoli, Stefano; Pasquini, Luca; Bortolotti, Villiam; Brizi, Leonardo; Mariani, Manuel; Di Giosia, Matteo; Fermani, Simona; Capaccioni, Bruno; Caroselli, Erik; Prada, Fiorella; Zaccanti, Francesco; Levy, Oren; Dubinsky, Zvy; Kaandorp, Jaap A.; Konglerd, Pirom; Hammel, Jorg U.; Dauphin, Yannicke; Cuif, Jean-Pierre; Weaver, James C.; Fabricius, Katharina E.; Wagermaier, Wolfgang; Fratzl, Peter; Falini, Giuseppe; Goffredo, Stefano	NATURE COMMUNICATIONS	6				2015	11.470	MML
32	Magnetic order and phase transitions in Fe ₅₀ Pt ₅₀ -xRh _x	Fenske, Jochen; Lott, Dieter; Tartakovskaya, Elena V.; Lee, Hwachol; LeClair, Patrick R.; Mankey, Gary J.; Schmidt, Wolfgang; Schmalzl, Karin; Klose, Frank; Schreyer, Andreas	JOURNAL OF APPLIED CRYSTALLOGRAPHY	48		1142	1158	2015	3.720	MML
33	Modified hydroxyethyl starch protects cells from oxidative damage	Filippov, S.K., Sergeeva, O.Y., Vlasov, P.S., Zavyalova, M.S., Belostotskaya, G.B., Garamus, V.M., Khrustaleva, R.S., Stepanek, P., Domnina, N.S.	Carbohydrate Polymers	134		314	323	2015	4.074	AEM / MML
34	In situ compressibility of carbonated hydroxyapatite in tooth dentine measured under hydrostatic pressure by high energy X-ray diffraction	Forien, J.-B., Fleck, C., Krywka, C., Zolotoyabko, E., Zaslansky, P.	Journal of the Mechanical Behavior of Biomedical Materials	50		171	179	2015	3.417	MML
35	The Larval Head Anatomy of Rhyacophila (Rhyacophilidae) with Discussion on Mouthpart Homology and the Groundplan of Trichoptera	Friedrich, F.; Schulz, J.; Kubiak, M.; Beckmann, F.; Wilde, F.	Journal of Morphology	76	12	1505	1524	2015	1.735	MML
36	Microstructural Evolution in Gamma Titanium Aluminides During Severe Hot-Working	Froebel, Ulrich; Stark, Andreas	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	46A	1	439	455	2015	1.730	AEM / MML
37	Reverse tension/compression asymmetry of a Mg-Y-Zn alloys containing LPSO phases	Garces, G., Perez, P., Cabeza, S., Lin, H.K., Kim, S., Gan, W., Adeva, P.	Materials Science and Engineering A	647		287	293	2015	2.567	MML
38	Plasticity analysis by synchrotron radiation in a Mg ₉₇ Y ₂ Zn ₁ alloy with bimodal grain structure and containing LPSO phase	Garces, G.; Morris, D. G.; Munoz-Morris, M. A.; Perez, P.; Tolnai, D.; Mendis, C.; Stark, A.; Lim, H. K.; Kim, S.; Shell, N.; Adeva, P.	ACTA MATERIALIA	94		78	86	2015	4.465	AEM / MML

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39	Thermal expansion behaviour of Long-Period Stacking Ordered (LPSO) phase	Garces, Gerardo; Requena, Guillermo; Tolnai, Domanos; Perez, Pablo; Adeva, Paloma; Jimenez, Jose A.; Stark, Andreas; Schell, Norbert	REVISTA DE METALURGIA	51	2			2015	0.288	AEM / MML
40	The High Data Rate Processing and Analysis Initiative of the Helmholtz Association in Germany	Gehrke, R., Kopmann, A., Wintersberger, E., Beckmann, F.	Synchrotron Radiation News	28	2	36	42	2015	-	MML
41	Examination of Commensurate Magnetic Structures in the Dy/Y multilayer system under applied magnetic field	Grigoriev, S.V., Tarnavich, V.V., Chetverikov, Y.O., Lott, D., Schreyer, A.	Journal of Surface Investigation	9	5	974	979	2015	Scopus	MML
42	Spin waves in full-polarized state of Dzyaloshinskii-Moriya helimagnets: Small-angle neutron scattering study	Grigoriev, SV; Sukhanov, AS ; Altynbaev, EV ; Siegfried, SA; Heinemann, A; Kizhe, P; Maleyev, SV	Physical Review B	92	22	220415		2015	3.736	MML
43	Hydrophobic Nanoreactor Soft-Templating: A Supramolecular Approach to Yolk@Shell Materials	Guier, A.; Göbel, C.; Klingan, K.; Lublow, M.; Reier, T.; Vainio, U.; Kraehnert, R.; Schlaad, H.; Strasser, P.; Zaharieva, I.; Dau, H.; Driess, M.; Polte, J.; Fischer, A.	ADVANCED FUNCTIONAL MATERIALS	25	39	6228	6240	2015	11.805	MML
44	Effect of Alcohol Treatment on the Performance of PTB7:PC71 BM Bulk Heterojunction Solar Cells	Guo, Shuai; Cao, Biye; Wang, Weijia; Moulin, Jean-Francois; Mueller-Buschbaum, Peter	ACS APPLIED MATERIALS & INTERFACES	7	8	4641	4649	2015	6.724	MML
45	Aging of a Pt/Al ₂ O ₃ exhaust gas catalyst monitored by quasi in situ X-ray micro computed tomography	Hofmann, Georg; Rochet, Amelie; Ogel, Elen; Casapu, Maria; Ritter, Stephan; Ogurreck, Malte; Grunwaldt, Jan-Dierk	RSC ADVANCES	5	9	6893	6905	2015	3.840	MML
46	Complementary ab initio and X-ray nanodiffraction studies of Ta ₂ O ₅	Hollerweger, R.; Holec, D.; Pauflitsch, J.; Bartosik, M.; Daniel, R.; Rachbauer, R.; Polcik, P.; Keckes, J.; Krywka, C.; Euchner, H.; Mayrhofer, P. H.	ACTA MATERIALIA	83		276	284	2015	4.465	MML
47	Nanoparticles of the poly([N-(2-hydroxypropyl)]-methacrylamide)-b-poly[2-(diisopropylamino)ethyl methacrylate] diblock copolymer for pH-triggered release of paclitaxel	Jaeger, Alessandro; Jaeger, Eliezer; Surman, Frantisek; Hoecherl, Anita; Angelov, Borislav; Ulbrich, Karel; Drechsler, Markus; Garamus, Vasil M.; Rodriguez-Emmenegger, Cesar; Nallet, Frederic; Stepanek, Petr	POLYMER CHEMISTRY	6	27	4946	4954	2015	5.520	AEM / MML
48	Amphipathic Solvation of Indole: Implications for the Role of Tryptophan in Membrane Proteins	Johnston, Andrew J.; Zhang, Yapei (Rosie); Busch, Sebastian; Carlos Pardo, Luis; Imberti, Silvia; McLain, Sylvia E.	JOURNAL OF PHYSICAL CHEMISTRY B	119	19	5979	5987	2015	3.302	MML
49	Structural and kinetic investigation of the hydride composite Ca(BH ₄) ₂ + MgH ₂ system doped with NbF ₅ for solid-state hydrogen storage	Karimi, Fahim; Pranzas, P. Klaus; Pistidda, Claudio; Puszkiel, Julian A.; Milanese, Chiara; Vainio, Ulla; Paskevicius, Mark; Emmeler, Thomas; Santoru, Antonio; Utke, Rapee; Tolkiehn, Martin; Minella, Christian B.; Chaudhary, Anna-Lisa; Boerries, Stefan; Buckley, Craig E.; Enzo, Stefano; Schreyer, Andreas; Klassen, Thomas; Dornheim, Martin	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	17	41	27328	27342	2015	4.493	MML / AEM
50	Differences in binding behavior of (-)-epigallocatechin gallate to β-lactoglobulin heterodimers (AB) compared to homodimers (A) and (B)	Keppler, J.K., Martin, D., Garamus, V.M., Schwarz, K.	Journal of Molecular Recognition	28		656	666	2015	2.151	AEM / MML
51	The Electro-Chemo-Mechanical Coupling in Lithium Alloy Electrodes and Its Origins	Kitzler, T; Maawad, E; Tobbens, DM; Ziehmer, M ; Markmann, J	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	162	14	A2684	A2691	2015	3.266	MML

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52	Polyelectrolyte Complexes of a Cationic All Conjugated Fluorene-Thiophene Diblock Copolymer with Aqueous DNA	Knaapila, Matti; Costa, Telma; Garamus, Vasil M.; Kraft, Mario; Drechsler, Markus; Scherf, Ulrich; Burrows, Hugh D.	JOURNAL OF PHYSICAL CHEMISTRY B	119	7	3231	3241	2015	3.302	AEM / MML
53	Silk reconstitution disrupts fibroin self-assembly	Koebley, S.R., Thorpe, D., Pang, P., Chrisochoides, P., Greving, I., Vollrath, F., Schniepp, H.C.	Biomacromolecules	16	9	2796	2804	2015	5.750	MML
54	Destroying activity of magnetoferritin on lysozyme amyloid fibrils	Kopcansky, Peter; Siposova, Katarina; Melnikova, Lucia; Bednarikova, Zuzana; Timko, Milan; Mitroova, Zuzana; Antosova, Andrea; Garamus, Vasil M.; Petrenko, Viktor I.; Avdeev, Mikhail V.; Gazova, Zuzana	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	377		267	271	2015	1.970	AEM / MML
55	Comparative study of the X-ray reflectivity and in-depth profile of a-C, B4C and Ni coatings at 0.1-2 keV	Kozhevnikov, I. V.; Filatova, E. O.; Sokolov, A. A.; Konashuk, A. S.; Siewert, F.; Stoermer, M.; Gaudin, J.; Keitel, B.; Samoylova, L.; Sinn, H.	JOURNAL OF SYNCHROTRON RADIATION	22	2	348	353	2015	2.736	MML
56	Comparative study of the X-ray reflectivity and in-depth profile of a-C, B4C and Ni coatings at 0.1-2 keV	Kozhevnikov, IV; Filatova, EO; Sokolov, AA; Konashuk, AS Siewert, F; Stormer, M; Gaudin, J; Keitel, B; Samoylova, L; Sinn, H	JOURNAL OF SYNCHROTRON RADIATION	22	Part 2 - SI	348	353	2015	2.736	MML
57	Optically switchable natural silk	Krasnov, Igor; Krekiahn, Nicolai R.; Krywka, Christina; Jung, Ulrich; Zillohu, Ahnaf U.; Strunskus, Thomas; Elbahri, Mady; Magnussen, Olaf M.; Mueller, Martin	APPLIED PHYSICS LETTERS	106	9			2015	3.302	MML
58	Fractional dynamics in silk: From molecular picosecond subdiffusion to macroscopic long-time relaxation	Krasnov, Igor; Seydel, Tilo; Mueller, Martin	PHYSICAL REVIEW E	91	4			2015	2.288	MML
59	The adult head of the annulipalpi caddisfly <i>Philopotamus ludificatus</i> McLachlan, 1878 (Philopotamidae), mouthpart homologies, and implications on the ground plan of Trichoptera	Kubiak, Martin; Beckmann, Felix; Friedrich, Frank	ARTHROPOD SYSTEMATICS & PHYLOGENY	73	3	351	384	2015	1.368	MML
60	Effect of Solution Treatment on Mechanical and Corrosion Behaviors of 6082-T6 Al Alloy	Kumar, N., Goel, S., Jayaganthan, R., Brokmeier, H.-G.	Metallography, Microstructure, and Analysis	4	5	411	422	2015	Scopus	MML
61	Effect of cryorolling and annealing on recovery, recrystallisation, grain growth and their influence on mechanical and corrosion behaviour of 6082 Al alloy	Kumar, N; Rao, PN; Jayaganthan, R; Brokmeier, HG	Materials Chemistry and Physics	165		177	187	2015	2.259	MML
62	Residual stress and microstructure depth gradients in nitrided iron-based alloys revealed by dynamical cross-sectional transmission X-ray microdiffraction	Kurz, S. J. B.; Meka, S. R.; Schell, N.; Ecker, W.; Keckes, J.; Mittemeijer, E. J.	ACTA MATERIALIA	87		100	110	2015	4.465	MML
63	Synthesis and thermal stability of zirconia and yttria-stabilized zirconia microspheres	Leib, E.W., Vainio, U., Pasquarelli, R.M., Kus, J., Czacchke, C., Walter, N., Janssen, R., Müller, M., Schreyer, A., Weller, H., Vossmeier, T.	Journal of Colloid and Interface Science	448		582	592	2015	3.368	MML
64	First evidence of neurons in the male copulatory organ of a spider (Arachnida, Araneae)	Lipke, E., Hammel, J.U., Michalik, P.	Biology Letters	11	7			2015	3.248	MML
65	MICROSTRUCTURE EVOLUTION AND MECHANICAL PROPERTIES OF TC1 ALLOY FABRICATED BY PLASMA ARC COLD HEARTH MELTING DURING ROLLING PROCESS	Liu Mengying; Chang Hai; Xu Feng; Xu Zhengfang; Yang Zhao; Wang Ning; Gan Weimin; Feng Qiang	ACTA METALLURGICA SINICA	51	3	341	348	2015	0.540	MML

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66	In situ study of phase transformations during laser-beam welding of a TiAl alloy for grain refinement and mechanical property optimization	Liu, Jie; Staron, Peter; Riekehr, Stefan; Stark, Andreas; Schell, Norbert; Huber, Norbert; Schreyer, Andreas; Mueller, Martin; Kashaev, Nikolai	INTERMETALLICS	62		27	35	2015	2.131	AEM / MML
67	Degradation behavior of PEO coating on AM50 magnesium alloy produced from electrolytes with clay particle addition	Lu, XP; Sah, SP; Scharnagl, N; Stormer, M; Starykevich, M; Mohedano, M; Blawert, C; Zheludkevich, ML; Kainer, KU	Surface and Coatings Technology	269		155	169	2015	1.998	MML
68	Locally resolved stress and strain analysis of sinter-joined micro valves using synchrotron X-ray diffraction and conical slit apertures	Maisenbacher, J.; Gibmeier, J.; Klimscha, K.; Fischer, T.; Staron, P.	MICROSYSTEM TECHNOLOGIES-MICRO- AND NANOSYSTEMS-INFORMATION STORAGE AND PROCESSING SYSTEMS	21	8	1787	1795	2015	0.875	MML
69	Capture of Prey, Feeding, and Functional Anatomy of the Jaws in Velvet Worms (Onychophora)	Mayer, G., Oliveira, I.S., Baer, A., Hammel, J.U., Gallant, J., Hochberg, R.	Integrative and Comparative Biology	55	2	217	227	2015	2.929	MML
70	SANS contrast variation study of magnetoferritin structure at various iron loading	Melnikova, Lucia; Petrenko, Viktor I.; Avdeev, Mikhail V.; Ivankov, Olexandr I.; Bulavin, Leonid A.; Garamus, Vasil M.; Almasy, Laszlo; Mitroova, Zuzana; Kopcansky, Peter	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	377		77	80	2015	1.970	AEM / MML
71	In Situ Investigation of Microstructure Evolution during Solidification of Mg ₁₀ CaxGd (x=5, 10, 20) Alloys	Mendis, CL; Tolnai, D; Stark, A; Schell, N; Kainer, KU; Hort, N	Acta Physica Polonica A	128	4	606	610	2015	0.53	MML
72	Ice rule for a ferromagnetic nanosite network on the face-centered cubic lattice	Mistonov, A. A.; Shishkin, I. S.; Dubitskiy, I. S.; Grigoryeva, N. A.; Eckerlebe, H.; Grigoriev, S. V.	JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS	120	5	844	850	2015	0.879	MML
73	Genome analysis of the humanpathogenic fungus <i>Conidiobolus coronatus</i> (Entomophthoromycota, Zygomycota)	Mockel, L; Vogel, H; Felder, M; Groth, M; Grutzmann, K; Kaltenpoth, M; Mogavero, S ; Muller, S ; Scherlach, K; Shelest, E; Schwartz, V; Winter, S; Bocker, S Hammel, J; Hube, B; Platzer, M; Schuster, S; Licht, HV; Beutel, R; Voigt, K	Mycoses	58		53	53	2015	2.239	MML
74	Modified x-ray polymer refractive cross lens with adiabatic contraction and its realization	Nazmov, V.; Mohr, J.; Greving, I.; Ogurreck, M.; Wilde, F.	JOURNAL OF MICROMECHANICS AND MICROENGINEERING	25	5	55010-1	55010-7	2015	1.731	MML
75	3D mu CT and SEM Analysis of Resolidified Tips of Cored Wires Used in Twin-Wire Arc Spraying	Nellesen, J.; Abdulgader, M.; Tillmann, W.; Beckmann, F.	JOURNAL OF THERMAL SPRAY TECHNOLOGY	24	1 bis 2	55	62	2015	1.344	MML
76	Microstructures and mechanical properties of SiCp/AZ91 magnesium matrix nanocomposites processed by multidirectional forging	Nie, K. B.; Deng, K. K.; Wang, X. J.; Gan, W. M.; Xu, F. J.; Wu, K.; Zheng, M. Y.	JOURNAL OF ALLOYS AND COMPOUNDS	622		1018	1026	2015	2.999	MML
77	Boron carbide coatings for neutron detection probed by x-rays, ions, and neutrons to determine thin film quality	Nowak, G.; Stoermer, M.; Becker, H. -W.; Horstmann, C.; Kampmann, R.; Hoeche, D.; Haese-Seiller, M.; Moulin, J. -F.; Pomm, M.; Randau, C.; Lorenz, U.; Hall-Wilton, R.; Mueller, M.; Schreyer, A.	JOURNAL OF APPLIED PHYSICS	117	3			2015	2.183	MML
78	Shape memory effect of laser welded NiTi plates	Oliveira, J.P., Braz Fernandes, F.M., Schell, N., and Miranda, R.M.	Functional Materials Letters	8	6	1550069-1	1550069-5	2015	1.606	AEM / MML

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79	Microstructural influences on strengthening in a naturally aged and overaged Al-Cu-Li-Mg based alloy	Ovri, H., Jäggle, E.A., Stark, A., and Lilleodden, E.T.	Materials Science and Engineering	637		162	167	2015	2.567	MML
80	Tungsten band edge absorber/emitter based on a monolayer of ceramic microspheres	P. N. Dyachenko, J. J. do Rosário, E. W. Leib, A. Yu. Petrov, M. Störmer, H. Weller, T. Vossmeier, G. A. Schneider, and M. Eich	OPTICS EXPRESS	23	19	A1236		2015	3.488	MML
81	Insights into the Skeletonization, Lifestyle, and Affinity of the Unusual Ediacaran Fossil Corumbella	Pacheco, Mrian L. A. Forancelli; Galante, Douglas; Rodrigues, Fabio; Leme, Juliana de M.; Bidola, Pidassa; Hagadorn, Whitey; Stockmar, Marco; Herzen, Julia; Rudnitzki, Isaac D.; Pfeiffer, Franz; Marques, Antonio C.	PLOS ONE	10	3			2015	3.234	MML
82	Mechanism of Formation of the Thermoelectric Layered Cobaltate Ca ₃ Co ₄ O ₉ by Annealing of CaO-CoO Thin Films	Paul, Biplab; Schroeder, Jeremy L.; Kerdsonpanya, Sit; Ngo Van Nong; Schell, Norbert; Ostach, Daniel; Lu, Jun; Birch, Jens; Eklund, Per	ADVANCED ELECTRONIC MATERIALS	1	3			2015	0	MML
83	GISAXS and TOF-GISANS studies on surface and depth morphology of self-organized TiO ₂ nanotube arrays: model anode material in Li-ion batteries	Paul, Neelima; Brumbarov, Jassen; Paul, Amitesh; Chen, Ying; Moulin, Jean-Francois; Mueller-Buschbaum, Peter; Kunze-Liebhaeuser, Julia; Gilles, Ralph	JOURNAL OF APPLIED CRYSTALLOGRAPHY	48		444	454	2015	3.720	MML
84	Effects of Long-Term Aging in Arsenical Copper Alloys	Pereira, F., Silva, R.J.C., Monge Soares, A.M., Araújo, M.F., Oliveira, M.J., Martins, R.M.S., Schell, N.	Microscopy and Microanalysis	21	6	1413	1419	2015	1.872	MML
85	Impact of polyethylene glycol on aqueous micellar solutions of sodium oleate studied by small-angle neutron scattering	Petrenko, V. I.; Avdeev, M. V.; Garamus, V. M.; Bulavin, L. A.; Kopcansky, P.	COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS	480		191	196	2015	2.752	AEM / MML
86	Improvement of thermal stability and reduction of LiBH ₄ /polymer host interaction of nanoconfined LiBH ₄ for reversible hydrogen storage	Plerdsranoy, P; Wiset, N; Milanese, C; Laipple, D; Marini, A; Klassen, T; Dornheim, M; Utike, RG	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	40	1	392	402	2015	3.313	MML
87	Complementarities of high energy WAXS and Raman spectroscopy measurements to study the crystalline phase orientation in polypropylenr blends during tensile test	Pongot, M., Martin, J., Chaudemanche, S., Ferry, O., Schenk, T., Tinnes, J.P., Chapron, D., Royaud, I., Dahoun, A., and Bourson, P.	Polymer	80		27	37	2015	3.562	MML
88	Three-dimensional distribution of water and air in soil pores: Comparison of two-phase two-relaxation-times lattice-Boltzmann and morphological model outputs with synchrotron X-ray computed tomography data	Pot, V.; Peth, S.; Monga, O.; Vogel, L. E.; Genty, A.; Garnier, P.; Vieuble-Gonod, L.; Ogurreck, M.; Beckmann, F.; Baveye, P. C.	ADVANCES IN WATER RESOURCES	84		87	102	2015	3.417	MML
89	Effect of Fe additive on the hydrogenation-dehydrogenation properties of 2LiH+MgB ₂ /2LiBH(4) + MgH ₂ system	Puszkil, J. A.; Gennari, F. C.; Arneodo Laroquette, P.; Ramallo-Lopez, J. M.; Vainio, U.; Karimi, F.; Pranzas, P. K.; Troiani, H.; Pistidda, C.; Jepsen, J.; Tolkiehn, M.; Welter, E.; Klassen, T.; von Colbe, J. Bellosta; Dornheim, M.	JOURNAL OF POWER SOURCES	284		606	616	2015	6.217	AEM / MML
90	The effect of tungsten content on the properties of L1(2) - hardened Co-Al-W alloys	Pyczak, Florian; Bauer, Alexander; Goeken, Mathias; Lorenz, Uwe; Neumeier, Steffen; Oehring, Michael; Paul, Jonathan; Schell, Norbert; Schreyer, Andreas; Stark, Andreas; Symanzik, Felix	JOURNAL OF ALLOYS AND COMPOUNDS	632		110	115	2015	2.999	AEM / MML

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91	Porous Gold with a Nested-Network Architecture and Ultrafine Structure	Qi, Zhen; Vainio, Ulla; Kornowski, Andreas; Ritter, Martin; Weller, Horst; Jin, Haijun; Weissmueller, Joerg	ADVANCED FUNCTIONAL MATERIALS	25	17	2530	2536	2015	11.805	AEM / MML
92	Improved sample manipulation at the STRESS-SPEC neutron diffractometer using an industrial 6-axis robot for texture and strain analyses	Randau, C.; Brokmeier, H. G.; Gan, W. M.; Hofmann, M.; Voeller, M.; Tekouo, W.; Al-hamdany, N.; Seidl, G.; Schreyer, A.	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	794		67	75	2015	1.216	MML
93	Effect of ageing on tensile behavior of ultrafine grained Al 6061 alloy	Rao, P. Nageswara; Singh, Dharmendra; Brokmeier, Heinz-Guenter; Jayaganthan, R.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	641		391	401	2015	2.567	MML
94	Visualizing the morphology of vortex lattice domains in a bulk type-II superconductor	Reimann, T.; Mühlbauer, S.; Schulz, M.; Betz, B.; Kaestner, A.; Pipich, V.; Böni, P.; Grünzweig, C.	NATURE COMMUNICATIONS	6		8813		2015	11.470	MML
95	Synchrotron X-Ray microtomography reveals interior microstructure of multicomponent food materials such as chocolate	Reinke, S.K.; Wilde, F.; Kozhar, S.; Beckmann, F.; Vieira, J.; Heinrich, S.; Palzer S.	Journal of Food Engineering					2015	2.771	MML
96	Thermal stability of wurtzite Zr1-xAlxN coatings studied by in situ high-energy x-ray diffraction during annealing	Rogstrom, L.; Ghafoor, N.; Schroeder, J.; Schell, N.; Birch, J.; Ahlgren, M.; Oden, M.	JOURNAL OF APPLIED PHYSICS	118	3	035309-1	035309-9	2015	2.183	MML
97	Structure evolutions in a Ti-6Al-4V matrix composite reinforced with TiB, characterised using high energy x-ray diffraction	Ropars, L., Dehmas, M., Gourdet, S., Delfosse, L., Tricker, D., and Aeby-Gautier, E.	Journal of Alloys and Compounds	624		179	188	2015	2.999	MML
98	X-ray grating interferometry at photon energies over 180 keV	Ruiz-Yaniz, M.; Koch, F.; Zanette, I.; Rack, A.; Meyer, P.; Kunka, D.; Hipp, A.; Mohr, J.; Pfeiffer, F.	APPLIED PHYSICS LETTERS	106	15			2015	3.302	MML
99	Improved Voltage and Cycling for Li+ Intercalation in High-Capacity Disordered Oxyfluoride Cathodes	S. Ren, R. Chen, E. Maawad, O. Dolotko, A. Guda, V. Shapovalov, D. Wang, H. Hahn, M. Fichtner	Adv. Sci.			1500128		2015	Scopus	MML
100	The effect of magnetic annealing on crystallographic texture and magnetic properties of Fe-2.6% Si	Salih, M. Z.; Uhlarz, M.; Pyczak, F.; Brokmeier, H. -G.; Weidenfeller, B.; Al-Hamdany, N.; Gan, W. M.; Zhong, Z. Y.; Schell, N.	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	381		350	359	2015	1.970	AEM / MML
101	High energy synchrotron radiation and its impact on characterizing nanoparticles	Schell, N.	Encyclopedia of nanotechnology, Springer, Netherlands			1	10	2015	-	MML
102	Adhesive-adherent interfaces probed with grazing-incidence small-angle neutron scattering	Schindler, Markus; Moulin, Jean-Francois; Mueller-Buschbaum, Peter	JOURNAL OF APPLIED CRYSTALLOGRAPHY	48		1047	1054	2015	3.720	MML
103	A Combined SAXS/SANS Study for the in Situ Characterization of Ligand Shells on Small Nanoparticles: The Case of ZnO	Kassar, T., Segets, D., Peukert, W., Radulescu, A., Kriele, A., Gilles, R., Unruh, T.	Langmuir	31	37	10130	10136	2015	4.457	MML

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104	Analysis of the structure of nanocomposites of triglyceride platelets and DNA	Schmiele, Martin; Knittel, Charlotte; Unruh, Tobias; Busch, Sebastian; Morhenn, Humphrey; Boesecke, Peter; Funari, Sergio S.; Schweins, Ralf; Lindner, Peter; Westermann, Martin; Steiniger, Frank	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	17	27	17939	17956	2015	4.493	MML
105	Industry-relevant magnetron sputtering and cathodic arc ultra-high vacuum deposition system for in-situ x-ray diffraction studies of thin film growth using high energy synchrotron radiation	Schroeder, J.L., Thomson, W., Howard, B., Schell, N., Näslund, L.-Å., Rogström, L., Johansson-Jöesaar, M.P., Ghafoor, N., Odén, M., Nothnagel, E., Shepard, A., Greer, J., and Birch, J.	Review of Scientific Instruments	86		095113-1	095113-11	2015	1.614	MML
106	Thermal stability of epitaxial cubic-TiN/(Al,Sc)N metal/semiconductor superlattices	Schroeder, Jeremy L.; Saha, Bivas; Garbrecht, Magnus; Schell, Norbert; Sands, Timothy D.; Birch, Jens	JOURNAL OF MATERIALS SCIENCE	50	8	3200	3206	2015	2.371	MML
107	Controlling the Dzyaloshinskii-Moriya interaction to alter the chiral link between structure and magnetism for Fe _{1-x} CoxSi	Siegfried, S. -A.; Altynbaev, E. V.; Chubova, N. M.; Dyadkin, V.; Chernyshov, D.; Moskvina, E. V.; Menzel, D.; Heinemann, A.; Schreyer, A.; Grigoriev, S. V.	PHYSICAL REVIEW B	91	18	184406/1	184406/4	2015	3.736	MML
108	Hot tearing characteristics of Mg-2Ca-xZn alloys	Song, J., Wang, Z., Huang, Y., Srinivasan, A., Beckmann, F., Kainer, K.U., Hort, N.	Journal of Materials Science					2015	1.647	MML
109	Effect of Zn addition on hot tearing behaviour of Mg-0.5Ca-xZn alloys	Song, J.; Wang, Z.; Huang, Y.; Srinivasan, A.; Beckmann, F.; Kainer, K.U.; Hort, N.	Materials and Design	87		157	170	2015	3.501	AEM / MML
110	Hot Tearing Susceptibility of Mg-Ca Binary Alloys	Song, JF; Wang, Z; Huang, YD; Srinivasan, A; Beckmann, F; Kainer, KU; Hort, N	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	46A	12	6003	6017	2015	1.730	MML
111	In Situ High-Energy X-ray Diffraction during HotForming of a Multiphase TiAl Alloy	Stark, A ; Rackel, M ; Tankoua, AT ; Oehring, M ; Schell, N ; Lottermoser, L ; Schreyer, A ; Pyczak, F	METALS	5	4	2252	2265	2015	0.883	MML
112	On radiation damage in FIB-prepared softwood samples measured by scanning X-ray diffraction	Storm, Selina; Ogurreck, Malte; Laipple, Daniel; Krywka, Christina; Burghammer, Manfred; Di Cola, Emanuela; Mueller, Martin	JOURNAL OF SYNCHROTRON RADIATION	22		267	272	2015	2.736	MML
113	Synchrotron Diffraction Studies of Hydrogen Absorption/Desorption on CaH ₂ + MgB ₂ Reactive Hydride Composite Mixed With Fluorinated Compounds	Suarez-Alcantara, K.; Sorby, M. H.; Pistidda, C.; Karimi, F.; Saldan, I.; Hauback, B. C.; Klassen, T.; Dornheim, M.	JOURNAL OF PHYSICAL CHEMISTRY C	119	21	11430	11437	2015	4.772	AEM / MML
114	Eigenspannungsmessungen mittels hochenergetischer Synchrotronstrahlung	Thiry, M.; Staron, P.; Guirao-Blank, A.	lightweight design	8	4	38	43	2015	-	MML
115	Magnetic microgels for drug targeting applications: Physical-chemical properties and cytotoxicity evaluation	Turcu, Rodica; Craciunescu, Izabell; Garamus, Vasil M.; Janko, Christina; Lyer, Stefan; Tietze, Rainer; Alexiou, Christoph; Vekas, Ladislau	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	380		307	314	2015	1.970	AEM / MML
116	An in situ investigation of microscopic infusion and void transport during vacuum-assisted infiltration by means of X-ray computed tomography	Vilà, J., Sket, F., Wilde, F., Requena, G., González, C., Llorca, J.	Composites Science and Technology	119		12	19	2015	3.569	MML
117	X-ray phase contrast tomography by tracking near field speckle	Wang, Hongchang; Berujon, Sebastien; Herzen, Julia; Atwood, Robert; Laundry, David; Hipp, Alexander; Sawhney, Kawal	SCIENTIFIC REPORTS	5				2015	5.578	MML

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118	Nucleation and thermal stability of carbide precipitates in high Nb containing TiAl alloys	Wang, L.; Gabrisch, H.; Lorenz, U.; Schimansky, FP; Schreyer, A; Stark, A; Pyczak, F	Intermetallics	66		111	119	2015	2.131	MML
119	The effect of temperature on supported dipalmitoylphosphatidylcholine (DPPC) bilayers: Structure and lubrication performance	Wang, Min; Zander, Thomas; Liu, Xiaoyan; Liu, Chao; Raj, Akanksha; Wieland, D. C. Florian; Garamus, Vasil M.; Willumeit-Roemer, Regine; Claesson, Per Martin; Dedinaite, Andra	JOURNAL OF COLLOID AND INTERFACE SCIENCE	445		84	92	2015	3.368	AEM / MML
120	Investigation of the inverse piezoelectric effect of trabecular bone on a micrometer lengthscale using synchrotron radiation	Wieland, D.C.F., Krywka, C., Mick, E., Willumeit-Römer, R., Bader, R., Kluess, D.	Acta Biomaterialia	25		339	346	2015	6.025	MML
121	CaO dissolution during melting and solidification of a Mg-10 wt.% CaO alloy detected with in situ synchrotron radiation diffraction	Wiese, B.; Mendis, C. L.; Tolnai, D.; Stark, A.; Schell, N.; Reichel, H. -P.; Brueckner, R.; Kainer, K. U.; Hort, N.	JOURNAL OF ALLOYS AND COMPOUNDS	618		64	66	2015	2.999	AEM / MML
122	On the variation of magnetic anisotropy in Co/Pt(111) on silicon oxide	Winkler, G.; Kobs, A.; Chuvilin, A.; Lott, D.; Schreyer, A.; Oepen, H. P.	JOURNAL OF APPLIED PHYSICS	117	10	105306/1	105306/6	2015	2.183	MML
123	Experimental characterization and modeling of residual stress gradients across straight and bent seamless steel tubes	Winter, G., Klärner, J., Staron, P., Buchmayr, B., Keckes, J.	Key Engineering Materials	651-653		231	236	2015	0.19	MML
124	Turkevich in New Robes: Key Questions Answered for the Most Common Gold Nanoparticle Synthesis	Wuithschick, M.; Birnbaum, A.; Witte, St.; Sztucki, M.; Vainio, U.; Pinna, N.; Rademann, K.; Emmerling, F.; Kraehnert, R.; Polte, J.	ACS Nano	9	7	7052	7071	2015	12.881	MML
125	Crystal structure determination of incommensurate modulated martensite in Ni-Mn-In Hensler alloys	Yan, Haile; Zhang, Yudong; Xu, Nan; Senyshyn, Anatoliy; Brokmeier, Heinz-Guenter; Esling, Claude; Zhao, Xiang; Zuo, Liang	ACTA MATERIALIA	88		375	388	2015	4.465	MML
126	Evolution of a laser shock peened residual stress field locally with foreign object damage and subsequent fatigue crack growth	Zabeen, S., Preuss, M., and Withers, P.J.	Acta Materialia	83		216	226	2015	4.465	MML
127	Cross-Sectional Structure-Property Relationship in Graded Nanocrystalline Ti _x Al _{1-x} N Thin Film	Zalesak, J.; Bartosik, M.; Daniel, R.; Mitterer, C.; Krywka, C.; Kiener, D.; Mayrhofer, P.H.; Keckes, J.	Acta Materialia	102		212	219	2015	4.465	MML
128	Determination of macroscopic and microscopic residual stresses in friction stir welded metal matrix composites via neutron diffraction	Zhang, X. X.; Ni, D. R.; Xiao, B. L.; Andrae, H.; Gan, W. M.; Hofmann, M.; Ma, Z. Y.	ACTA MATERIALIA	87		161	173	2015	4.465	MML
129	Dislocation density evolution of Al7020 T6 investigated by in-situ synchrotron radiation diffraction under tensile load	Zhong, Z.Y., Brokmeier, H.-G., Gan, W.M., Maawad, E., Schwabke, B., and Schell, N.	Materials Characterization	108		124	133	2015	1.845	MML
130	In-situ investigation of the anisotropic mechanical behavior of rolled AA 7020-T6 alloy through lattice strain evolution during uniaxial tension	Zhong, Z. Y.; Brokmeier, H-G; Maawad, E.; Schell, N.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	639		519	525	2015	2.567	MML

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1	Challenges of achieving Good Environmental Status in the Northeast Atlantic.	Alexander, Karen A.; Kershaw, Peter; Cooper, Philip; Kannen, A. et al.	ECOLOGY AND SOCIETY	20	1 Article: 49			2015	2.774 PACES
2	Application of a new algorithm using doppler information to retrieve complex wind fields over the black sea from ENVISAT SAR images.	Alpers, W., Mouche, A., Horstmann, J., Ivanov, A. Y., & Barabanov, V. S.	International Journal of Remote Sensing	36	3	863	881	2015	1.652 PACES
3	Blue-Green Algae in a "Greenhouse Century"? New Insights from Field Data on Climate Change Impacts on Cyanobacteria Abundance.	Anneville, Orlane; Domaizon, Isabelle; Kerimoglu, Onur; et al.	ECOSYSTEMS	18	3	441	458	2015	3.943 PACES
4	Comparison between morphological and DNA barcode-suggested species boundaries among shallow-water amphipod fauna from the southern European Atlantic coast	Antunes, I.C., Borges, L.M.S. et al.	Genome	58	5	187			1.424 PACES
5	Geochemistry of sediments in the modern Aral Basin.	Baturin, G. N.; Zavjalov, P. O.; Friedrich, J.	OCEANOLOGY	55	2	253	262	2015	0.638 PACES
6	Development of an ensemble prediction system for ocean surface waves in a coastal area.	Behrens, Arno	OCEAN DYNAMICS	65	4	469	486	2015	1.943 PACES
7	Do N-isotopes in atmospheric nitrate deposition reflect air pollution levels?	Beyn, F., Matthias, V., Aulinger, A., & Dähnke, K.	Atmospheric Environment	107		281	288	2015	3.281 PACES
8	Variability of wind direction statistics of mean and extreme wind events over the Baltic Sea region	Bierstedt, S., Hünicke, B., Zorita, E.	Tellus	67					1.756 PACES
9	Past and future challenges in managing European seas.	Blenckner, Thorsten; Kannen, Andreas; Barausse, Alberto; et al.	ECOLOGY AND SOCIETY	20	1			2015	4.08 PACES
10	Contrasting sea surface temperature of summer and winter monsoon variability in the northern arabian sea over the last 25ka.	Böll, A., Schulz, H., Munz, P., Rixen, T., Gaye, B., & Emeis, K.	Palaeogeography, Palaeoclimatology, Palaeoecology	426		10	21	2015	2.339 PACES
11	The internal structure of the pallets of <i>Nototeredo norvegica</i> and <i>Psiloteredo megotara</i> (Bivalvia: Teredinidae): implications for subfamilial allocations	Borges, L.M.S.	Zoomorphology						1.702
12	Continental-scale temperature variability in PMIP3 simulations and PAGES 2k regional temperature reconstructions over the past millennium.	Bothe, O.; Evans, M.; Fernandez Donado, L.; et al.	Climate in the Past	11	12	1673	1699	2015	3.382 PACES
13	Maritime surveillance with multiple over-the horizon HFSW radars: An overview of recent experimentation.	Braca, P., Horstmann, J. et al.	IEEE Aerospace and Elektronik Systeme Magazine	30	12	4	18	2015	0.963 PACES
14	Using empirical orthogonal functions derived from remote-sensing reflectance for the prediction of phytoplankton pigment concentrations.	Bracher, A., Taylor, M. H., Taylor, B., Dinter, T., Röttgers, R., & Steinmetz, F.	Ocean Science	11	1	139	158	2015	2.232 PACES
15	Climate-change lore and its implications for climate science: Post-science deliberations?	Bray, D., Martinez, G.	Futures	66		54	69	2015	Scopus Paces
16	The ocean colour climate change initiative: III. A round-robin comparison on in-water bio-optical algorithms.	Brewin, R. J. W., Sathyendranath, S., Müller, D., Brockmann, C., Deschamps, P. -, Devred, E., White, G. N.	Remote Sensing of Environment	162		271	294	2015	6.393 PACES
17	Using Green's Functions to initialize an adjusted a global, eddy ocean biogeochemistry general circulation model	Brix, H., Menemenlis, D. et al.	Ocean Modelling	95		1	14	2015	2.927 PACES
18	Mercury in the atmosphere and in rainwater at cape point, south africa	Brunke, E., Ebinghaus, R. et al.	Atmospheric environment	125		24	32	2015	3.282 PACES
19	Tree-Ring Amplification of the Early Nineteenth-Century Summer Colling in Central Europe	Buentgen, U., Trnka, M., Zorita, E., et al.	Journal of Climate	28	13	5272	5288	2015	4.435 PACES

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20	Mean spring sonditions at Helgoland roads, North Sea: Graphical modeling of the influence of hydro-climatic forcing and Elbe River discharge	Callies, U., Scharfe M.	Journal of Sea Research	101				2015	1.990 PACES
21	Directly measured currents and estimated transport pathways of Atlantic Water between 59.50N and the Iceland-Faroes-Scotland Ridge	Childers, K., Schrum, C. et al.	Tellus A	67		28067		2015	1.756 PACES
22	Priming a DNA barcode library for marine Gastropoda of the continental Portuguese coast and Azores Islands	Costa, F.O., Borges, L.M.S. et al.	Genome	58	5	207		2015	1.424 PACES
23	The evolution of sub-monsoon systems in the afro-asian monsoon region during the holocene - comparison of different transient climate model simulations.	Dallmeyer, A., Claussen, M., Fischer, N., Haberkorn, K., Wagner, S., Pfeiffer, M., Herzsuh, U.	Climate of the Past	11	2	305	326	2015	3.382 PACES
24	Detecting anthropogenic footprints in sea level rise	Dangendorf, S., Wagner, S., et al.	Nature Communications		6	7849		2015	11.470 PACES
25	Censoring government scientists and the role of consensus in science advice: A structured process for scientific advice in governments and peer-review in academia should shape science communication strategies.	De Kerckhove, D. T., Rennie, M. D., & Cormier, R.	EMBO Reports	16	3	263	266	2015	9.055 PACES
26	"Heimat" as a boundary object? exploring the potentialities of a boundary object to instigate productive science-stakeholder interaction in north frisia (germany)	Doering, M., Ratter, B.	Environmental Science and Policy	54		448	455	2015	Scopus PACES
27	Eight-hundred years of summer temperature variations in the southeast of the Iberian Peninsula reconstructed from tree rings.	Dorado Linan, Isabel; Zorita, Eduardo; Fidel Gonzalez-Rouco, Jesus; et al.	Climate Dynamics	44	7_8	2329	2329	2015	4.673 PACES
28	Dynamical downscaling of CMIP5 global circulation models over CORDEX-Africa with COSMO-CLM: evaluation over the present climate and analysis of the added value.	Dosio, Alessandro; Panitz, Hans-Juergen; Schubert-Frisius, Martina; et al.	CLIMATE DYNAMICS	44	9_10	2637	2661	2015	4.673 PACES
29	Particle-size distribution of airborne poly- and perfluorinated alkyl substances.	Dreyer, A., Kirchgeorg, T., Weinberg, I., & Matthias, V.	Chemosphere	129		142	149	2015	3.340 PACES
30	The north sea - A shelf sea in the anthropocene.	Emeis, K. -, van Beusekom, J., Callies, U., Ebinghaus, R., Kannen, A., Kraus, G., Zorita, E.	Journal of Marine Systems	141		18	33	2015	2.508 PACES
31	Improved Boundary Values of Ocean Wave Fields Using A Data Assimilation Scheme	Fan, Y.-M., Günther, H. et al.	Journal of marine science and technology-Taiwan	23	6	943	950	2015	3.379 PACES
32	Hurricane Gonzalo and ist extratropical transition to a strong European storm	Feser, F., Barcikowska, M., et al	Bulletin of the American Meteorological Society	96	12	51	55	2015	11.808 PACES
33	Storminess over the North Atlantic and northwestern Europe - A review.	Feser, F.; Barcikowska, M.; Krueger, O.; et al.	QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL SOCIETY	141	687	350	382	2015	3.252 PACES
34	Modern approaches to shipborne ocean color remote sensing.	Garaba, Shungudzemwoyo P.; Voss, Daniela; Wollschlaeger, Jochen; et al.	APPLIED OPTICS	54	12	3602	3612	2015	1.784 PACES
35	Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems.	Germine, Vivone; Braca, Paolo; Jochen, Horstmann	IEEE Transactions on Geoscience and Remote Sensing	53	7	3931	3949	2015	3.514 PACES
36	Climatology of north sea wind energy derived from a model hindcast for 1958-2012	Geyer, B., Weisse, R., Bisling, P., Winterfeldt, J.	Journal of Wind Engineering and Industrial Aerodynamics	147		18	29	2015	1.414 PACES

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37	Marine spatial planning and Good Environmental Status: a perspective on spatial and temporal dimensions.	Gilbert, Alison J.; Alexander, Karen; Sarda, Rafael; Fischer, C. et al.	ECOLOGY AND SOCIETY	20	1 Article: 64			2015	4.08 PACES
38	Living on the Margin in the Anthropocene: engagement arenas for sustainability research and action at the ocean-land interface	Glavovic, B.V., Emeis, K.-C. et al.	Current Opinion in Environmental Sustainability	14		1	7	2015	3.491 PACES
39	A Multi-Method Approach to Develop Extreme Storm Surge Events to Strengthen the Resilience of Highly Vulnerable Coastal Areas.	Goennert, Gabriele; Gerkenmeier, Birgit	COASTAL ENGINEERING JOURNAL	57	1			2015	2.250 PACES
40	Comparison of GC-NCI MS, GC-ICP-MS, and GC-EI MS-MS for the determination of PBDEs in water samples according to the Water Framework Directive	Gonzales-Gago, A., Pröfrock, D., Prange, A.	Analytical and Bioanalytical Chemistry	407	26	8009	8018	2015	3.436 PACES
41	A regional climate palaeosimulation for Europe in the period 1550 - 1900 - part 2: Shortcomings and strengths of models and reconstruction	Gonzales-Riancho, P., Bothe, O., Wagner, S., Zorita, E., et al.	Climate of the past	11	8	1077	1095	2015	3.382 PACES
42	Optimizing GC-ICP-MS for ultra-trace quantification of PBDEs in natural water samples using species-specific isotope dilution.	Gonzalez-Gago, Adriana; Proefrock, Daniel; Prange, Andreas	JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY	30	1	180	190	2015	3.466 PACES
43	Storm surge risk perception and resilience: A pilot study in the German North Sea coast.	González-Riancho, P., Gerkenmeier, B., Ratter, B. M. W., González, M., & Medina, R.	Ocean and Coastal Management	122		44	60	2015	1.748 PACES
44	Climate change impact on North Sea wave conditions: a consistent analysis of ten projections.	Grabemann, Iris; Groll, Nikolaus; Moeller, Jens; et al.	OCEAN DYNAMICS	65	2	255	267	2015	1.943 PACES
45	East Frisian Wadden Sea hydrodynamics and wave effects in an unstructured-grid model.	Grashorn, S., Lettmann, K. A., Wolff, J. -, Badewien, T. H., & Stanev, E. V.	Ocean Dynamics	65	3	419	434	2015	1.943 PACES
46	Assessment of the Black Sea observing system. A focus on 2005-2012 Argo campaigns	Grayek, S., Stanev, E.V., Schulz-Stellenfleth, J.	Ocean Dynamics	65		1665	1684	2015	1.943 PACES
47	Late glacial initiation of Holocene eastern Mediterranean sapropel formation	Grimm, R., Maier-Reimer, E., Mikolajewicz, U., Emeis, K.-C., et al.	Nature Communications	6		44	60	2015	11.470 PACES
48	The EnMAP spaceborne imaging spectroscopy mission for Earth observation	Guanter, L., Kaufmann, H., Doerffer, R., Krasemann, H., et al.	Remote Sensing	7	7	8830	8857	2015	3.180 PACES
49	Evaluation of numerical models by FerrBox and fixed platform in situ data in the southern North Sea	Haller, M., Jannssen, F., et al.	Ocean Science	11	6	879	896	2015	2.232 PACES
50	Investigation on the proteome response of transplanted blue mussel (<i>Mytilus</i> sp.) during a long term exposure experiment at differently impacted field stations in the German Bight (North Sea)	Helmholz, H., Lassen, S., Ruhnau, C., Proefrock, D., Erbsloeh, H.-B., Prange, A.	Marine Environmental Research	110		69	80	2015	2.762 PACES
51	Wind and tidal mixing controls on stratification and dense water outflows in a large hypersaline bay	Hetzel, Y., Hofmeister, R. et al.	J. of Geophysical Research-Oceans	120	9	6034	6056	2015	3.426 PACES
52	Alternative and Legacy Perfluoroalkyl Substances: Differences between European and Chinese River/Estuary Systems	Heydebreck, F., Tang, J., Xie, Z., Ebinghaus, R.	Environmental Science and Technology	49	14	8386	8395	2015	5.330 PACES
53	Finding the minimum potential energy state by adiabatic parcel rearrangements with a nonlinear equation of state: An exact solution in polynomial time	Hieronimus, M., Nycander, J.	Journal of Physical Oceanography	45	7	1843	1847	2015	2.856 PACES
54	On the role of soil moisture in the generation of heavy rainfall during the Oder flood event in July 1997	Ho-Hagemann, H.T.M., et al.	Tellus	67	28661			2015	1.756 PACES
55	Processing of water level derived from water pressure data at the time series station Spiekeroog	Holinde, L., Stanev, E.V. et al.	Earth System Science Data	7	2	289	297	2015	Scopus PACES

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56	Potential impacts of climate change on the primary production of regional seas. A comparative analysis of five European seas	Holt, J., Schrum, C. et al.	Progress in Oceanography					2015	3.025 PACES
57	Influence of sea levelrise on the dynamics of salt inflows in the baltic sea	Hordoir, R., Kuznetsov, I. et al.	J. of Geophysical Research Oceans	120	10	6653	6668	2015	3.426 PACES
58	Tropical Cyclone Winds Retrieved From C-Band Cross-Polarized Synthetic Aperture Radar.	Horstmann, Jochen; Falchetti, Silvia; Wackerman, Christopher; et al.	IEEE Transactions on Geoscience and Remote Sensing	53	5	2887	2898	2015	3.514 PACES
59	Cyanobacterial bloom termination: The disappearance of planktothrix rubescens from lake bourget (france) after restoration.	Jacquet, S., Kerimoglu, O., Rimet, F., Paolini, G., & Anneville, O.	Freshwater Biology	59	12	2472	2487	2015	2.738 PACES
60	Exploring, exploiting an evolving diversity of aquatic ecosystem models: a community perspective	Jannsen, A., Lemmen, C. et al.	Aquatic Ecology	49	4	513	548	2015	1.422 PACES
61	Coastal Ocean Forecasting: science foundation and user benefits	Kourafalou, V., De Mey, P. Staneva, J., et al.	Journal of Operational Oceanography	8	S1	147		2015	1.050 PACES
62	Variations in the elemental ratio of organic matter in the central Baltic Sea: Part II- Sensitivities on annual mass flux estimates to model parameter variations	Kreus, M., Schartau, M.	Continental Shelf Sea Research	100		46	63	2015	1.892 PACES
63	Variations in the elemental ratio of organic matter in the central Baltic Sea: Part I-Linking primary production to remineralization	Kreus, M., Schartau, M., Engel, A., et al.	Continental Shelf Sea Research	100		25	45	2015	1.892 PACES
64	Occurrence and dry deposition of organophosphate esters in atmospheric particles over the northern south china sea.	Lai, S., Xie, Z., Song, T., Tang, J., Zhang, Y., Mi, W., Ebinghaus, R.	Chemosphere	127		195	200	2015	3.340 PACES
65	Equilibrium passive sampling as a tool to study polycyclic aromatic hydrocarbons in Baltic Sea sediment pore-water systems	Lang, S.-C., Kötke, D., et al.	Marine Pollution Bulletin					2105	2.991 Paces
66	Regional climate model sensitivities to parametrizations of convection and non-precipitating subgrid-scale clouds over South America.	Lange, Stefan; Rockel, Burkhardt; Volkholz, Jan; et al.	Climate Dynamics	44	9_10	2839	2857	2015	4.673 PACES
67	Comparative biogeochemistry-ecosystem-human interactions on dynamic continental margins.	Levin, L. A., Liu, K. -, Emeis, K. -, Breitburg, D. L., Cloern, J., Deutsch, C., Wishner, K. F.	Journal of Marine Systems	141		3	17	2015	2.508 PACES
68	Distribution and sources of organic matter in surface sediments of bohai sea near the yellow river estuary, china	Liu, D. Emeis, K.-C. et al.	Earth System Science Data	7	2	289	297	2015	Scopus PACES
69	Preface - "Biogeochemistry-ecosystem interaction on changing continental margins in the Anthropocene" .	Liu, K. -K.; Emeis, Kay-Christian; Levin, Lisa A.; et al.	JOURNAL OF MARINE SYSTEMS	141		1	2	2015	2.508 PACES
70	DANN barcodes of polychaetes from the southern European Atlantic coast underscores the incipient state of the global reference library for this taxon	Lobo, J., Borger, L.M.S. et al.	Genome	58		247		2015	1.424 PACES
71	Starting a DANN barcode reference library for shallow water polychaetes from the southern European Atlantic coast	Lobo, J., Borger, L.M.S. et al.	Molecular Ecology Resources					2015	3.712 PACES
72	Occurrence and trends in concentrations of perfluoroalkyl substances (PFASs) in surface waters of eastern china.	Lu, Z., Song, L., Zhao, Z., Ma, Y., Wang, J., Yang, H., Giesy, J. P.	Chemosphere	119		820	827	2015	3.340 PACES
73	The spatial distribution of organochlorine pesticides and halogenated flame retardants in the surface sediments of an arctic fjord: The influence of ocean currents vs. glacial runoff.	Ma, Y., Xie, Z., Halsall, C., Möller, A., Yang, H., Zhong, G., Ebinghaus, R.	Chemosphere	119		953	960	2015	3.340 PACES

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74	Erratum: Comparison between CARIBIC aerosol samples analysed by accelerator-based methods and optical particle counter measurements (atmospheric measurement techniques (2014) 7 (2581-2596)).	Martinsson, B. G., Friberg, J., Andersson, S. M., Weigelt, A., Hermann, M., Assmann, D., Zahn, A.	Atmospheric Measurement Techniques	8	1	367		2015	2.929 PACES
75	The GEOTRACES Intermediate Data Product 2014	Mawji, E., Friedrich, J. et al.	Marine Chemistry	177	SI	1	8	2015	2.735 PACES
76	Sustaining Europe's seas as coupled social-ecological systems.	Mee, Laurence; Cooper, Philip; Kannen, Andreas; et al.	ECOLOGY AND SOCIETY	20	1			2015	4.08 PACES
77	Interannual variability of sorted bedforms in the coastal german bight (SE north sea)	Mielck, F., Bürk, D. et al.	Continental Shelf Research	111		31	41	2015	1.892 PACES
78	Nitrate drawdown and its unexpected isotope effect in the Danube estuarine transition zone.	Moebius, J.; Daehnke, K.	Limnology and Oceanography	60	3	1008	1019	2015	3.794 PACES
79	The Ocean Colour Climate Change Initiative: I. A methodology for assessing atmospheric correction processors based on in-situ measurements.	Mueller, D.; Krasemann, H.; Brewin, R.J.W.; Brockmann, C.; Deschamps, P.-Y.; Doerffer, R.; Fomferra, N.; Franz, B.A.; Grant, M.G.; Groom, S.B.; Melin, F.; Platt, T.; Regner, P.; Sathyendranath, S.; Steinmetz, F.; Swinton, J.	Remote Sensing of Environment	162		242	256	2015	6.393 PACES
80	The Ocean Colour Climate Change Initiative: II. Spatial and temporal homogeneity of satellite data retrieval due to systematic effects in atmospheric correction processors.	Mueller, D.; Krasemann, H.; Brewin, R.J.W.; Brockmann, C.; Deschamps, P.-Y.; Doerffer, R.; Fomferra, N.; Franz, B.A.; Grant, M.G.; Groom, S.B.; Melin, F.; Platt, T.; Regner, P.; Sathyendranath, S.; Steinmetz, F.; Swinton, J.	Remote Sensing of Environment	162		257	270	2015	6.393 PACES
81	CoastColour round robin data sets: A database to evaluate the performance of algorithms for the retrieval of water quality parameters in coastal waters	Nechad, B., Röttgers, R. et al.	Earth System Science Data	7	2	319	348	2015	Scopus PACES
82	The nonlinear equation of state of sea water and the global water mass distribution	Nycander, J., Hieronymus, M. et al.	Geophysical research letters	42	18	7714	7721	2015	4.196 PACES
83	Assessing the magnitude of CO2 flux uncertainty in atmospheric CO2 records using products from NASA's Carbon Monitoring Flux Pilot Project.	Ott, L.; Pawson, S.; Collatz, J.; gregg, W.; Menemenlis, D.; Brix, H.; Rousseaux, C.; Bowman, K.; liu, J.; Eldering, A.; Gunson, M.; Kawa, S.R.	Journal of Geophysical Research	120	2	734	765	2015	3.426 PACES
84	Arctic Ocean Water Mass Transformation in S-T Coordinates	Pemberton, P., Nilsson, J., Hieronymus, M., Meier, H.E.M.	Journal of Physical Oceanography	45	4	1025	1050	2015	2.856 PACES
85	Laboratory calibration and field testing of the Chemcatcher-Metal for trace of rare earth elements in estuarine waters	Petersen, J.K., Pröfrock, D. et al.	Environmental Science and Pollution Research	22	20	16051	16059	2015	2.828 PACES
86	Climate change adaptation under a social capital approach - an analytical framework for small islands.	Petzold, J., & Ratter, B. M. W.	Ocean and Coastal Management	122		120	125	2015	1.748 PACES
87	Tree-rings and people - different views on the 1540 Megadrought. Reply to Buntgen et al.	Pfister, C., Wetter, O., et al.	Climatic Change	131	2	191	198	2015	3.430 PACES
88	Detecting critical choke points for achieving Good Environmental Status in European seas.	Potts, Tavis; O'Higgins, Tim; Brennan, Ruth; Beusekom, J. et al.	ECOLOGY AND SOCIETY	20	1			2015	4.08 PACES
89	A review on regional convection-permitting climate modeling: Demonstrations, prospects, and challenges	Prein, A.F., Lanfhan, W., Fosser, G., Feser, F., et al.	Reviews of Geophysics	53	2	323	361	2015	14.800 PACES
90	Numerical analysis of stratification and destratification processes in a tidally energetic inlet with an ebb tidal delta.	Purkiani, K., Becherer, J., Flöser, G., Gräwe, U., Mohrholz, V., Schuttelaars, H. M., & Burchard, H.	Journal of Geophysical Research C: Oceans	120	1	225	243	2015	3.426 PACES
91	Cost-Effective Hyperspectral Transmissometers for Oceanographic Applications	Ramirez-Perez, M., Röttgers, R. et al.	Sensors	15	9	20967	20989	2015	2.245 PACES
92	Global impacts of the 1980s regime shift	Reid, P.C., North, R.P. et al.	Global Change Biology					2015	8.044 PACES

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93	Quantitative filter technique measurements of spectral light adsorption by aquatic particles using a portable integrating cavity adsorption meter (QFT-ICAM)	Röttgers, R., Doxaran, D. et al.	Optics express					2015	3.488 PACES
94	Twnty-First-Centura Challenges in Regional Climate Modeling	Rummukainen, M., Rockel, B. et al.	Bulletin of the American Meteorological Society	96	8	ES135	ES138	2015	11.808 PACES
95	New insights into the reconstructed temperature in Portugal over the last 400 years	Santos, J.A., Carneiro, M.F., Zorita, E., et al.	Climate of the past	11		825	834	2015	3.382 PACES
96	Calibration and multi-source consistency analysis of reconstructed precipitation series in Portugal since the early 17th century.	Santos, Joao A.; Carneiro, Maria F.; Alcoforado, Maria J.; et al.	HOLOCENE	25	4	663	676	2015	2.283 PACES
97	An Algorithm for surface current retrieval from x-band marine radar images	Shen, C., Huanf, W. et al.	Remote Sensing	7	6	7753	7767	2015	3.180 PACES
98	Comparison of mercury concentrations measured at several sites in the southern hemisphere.	Slemr, F., Angot, H., Dommergue, A., Magand, O., Barret, M., Weigelt, A., Wang, F.	Atmospheric Chemistry and Physics	15	6	3125	3133	2015	5.053 PACES
99	Comparison of differant mass spectrometric techniques for the determination of polychlorinated biphenyls by isotope dilution using CL-37-labelled analogues	Somoano-Blanco, L., Pröfrock, D. et al.	Analytical Methods	7	21	9068	9075	2015	1.8 PACES
100	Top-down constraints on atmospheric mercury emissions and implications for global biogeochemical cycling	Song, S., Selin, N., Ebinghaus, R., et al.	Atmospheric Chemistry and Physics	15	12	7103	7125	2015	5.053 PACES
101	Blending surface currents from HF radar observations and numerical modeling: Tidal hindcasts and forecasts.	Stanev, E. V., Ziemer, F., Schulz-Stellenfleth, J., Seemann, J., Staneva, J., & Gurgel, K. -	Journal of Atmospheric and Oceanic Technology	32	2	256	281	2015	1.725 PACES
102	The role of density gradients on tidal asymmetries in the German Bight .	Stanev, Emil V.; Al-Nadhairi, Rahma; Valle-Levinson, Arnoldo	OCEAN DYNAMICS	65	1	77	92	2015	1.943 PACES
103	Physical processes in the transition zone between north sea and baltic sea. Numerical simulations and observations	Stanev, E. V., Lu, X., Grashorn, S.	Ocean Modelling	93		56	74	2015	2.927 PACES
104	Quantitative environmental risk assessments in the context of marine spatial management: Current approaches and some perspectives.	Stelzenmüller, V., Fock, H. O., Gimpel, A., Rambo, H., Diekmann, R., Probst, W. N., Kröncke, I.m Callies, U., Bockelmann,	ICES Journal of Marine Science	72	3	1022	1042	2015	2.377 PACES
105	Trophic mismatch requires seasonal heterogeneity of warming	Straile, D., Kerimoglu, O., Peeters, F.	Ecology	96	10	2794	2805	2015	4.656 PACES
106	Response patterns of phytoplankton growth to variations in resuspension in the German Bight revealed by daily MERIS data in 2003 and 2004	Su, J., Krasemann, H., et al.	Oceanologia	57	4	328	341	2015	1.000 PACES
107	Fingerprint analysis of brominated flame retardants and dechloranes in north sea sediments	Sühring, R., Barber, J.L., Wolschke, H. et al.	Environmental Research	140		569	578	2015	4.373 PACES
108	Distribution of brominated flame retardants and dechloranes between sediments and benthic fish - A comparison of a freshwater and marine habitat	Sühring, R., Busch, F. et al.	Science of the Total Environment	542		578	585	2015	4.099 PACES
109	Maternal transfer of emerging brominated and chlorinated flame retardants in european eels	Sühring, R., Freese, M., Schneider, M., et al.	Science of the Total Environment	530 - 531		209	218	2015	4.099 PACES
110	Accurate estimation of the backscattering coefficient by light scattering at two backward angles	Tan, H., Tanaka, A., Doerffer, R.	APPLIED OPTICS	54	25	7718	7733	2015	1.784 PACES
111	Oceanic influence on the precipitation in Venezuela under current and future climate	Tim, N., Bravo de Guenni, L.	Climate Dynamics					2015	4.673 PACES
112	Decadal vatriability and trends of the Benguela upwelling system as simulated in an high-resolution ocean simulation	Tim, N., Zorita, E., Huenicke, B.	Ocean Science	11	3	483	502	2015	2.232 PACES

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113	Drivers of deep-water renewal events observed over 13 years in the South Basin of Lake Baikal.	Tsimitri, Chrysanthi; Rockel, Burkhardt; Wueest, Alfred; et al.	JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS	120	3	1508	1526	2015	3.426 PACES
114	Drivers of the 2013/2014 winter floods in the UK	van Oldenborgh, G.J., Stephenson, D.B., von Storch, H., et al.	Nature Climate change	5		490	491	2015	14.547 PACES
115	Statistical exploration of gaseous elemental mercury (GEM) measured at cape point from 2007 to 2011	Venter, A.D., Ebinghaus, R. et al.	Atmospheric Chemistry and Physics	15	18	10271	10280	2015	5.053 PACES
116	Knowledge-Based Multitarget Ship Tracking for HF Surface Wave Radar Systems.	Vivone, Gemine; Braca, Paolo; Horstmann, Jochen	IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING	53	7	3931	3949	2015	3.514 PACES
117	Making coastal research useful - cases from practice.	Von Storch, H., Emeis, K., Meinke, I., Kannen, A., Matthias, V., Ratter, B. M. W., Wirtz, K.	Oceanologia	57	1	3	16	2015	1.000 PACES
118	Data assimilation of ocean wind waves using Neural Networks. A case study for the German Bight	Wahle, K., Staneva, J. et al.	Ocean Modelling	160		117	125	2015	2.927 PACES
119	Interactive effects of temperature and light during deep convection: a case study on growth and <i>Thalassiosira weissflogii</i>	Walter, B., Peters, J., van Beusekom, J.E.E., et al.	ICES Journal of marine science	72	6	2061	2071	2015	2.377 PACES
120	Occurrence and spatial distribution of organophosphate ester flame retardants and plasticizers in 40 rivers draining into the bohai sea, north china.	Wang, R., Tang, J., Xie, Z., Mi, W., Chen, Y., Wolschke, H., Ebinghaus, R.	Environmental Pollution	198		172	178	2015	4.143 PACES
121	Neutral Poly/Per-Fluoroalkyl Substances in Air from the Atlantic to the Southern Ocean and in Antarctic Snow	Wang, Z., Xie, Z., Mi, W., et al.	Environmental Science and Technology	49	13	7770	7775	2015	2.190 PACES
122	Estimating dry deposition and gas/particle partition coefficients of neutral poly-/perfluoroalkyl substances in northern german coast.	Wang, Z., Xie, Z., Möller, A., Mi, W., Wolschke, H., & Ebinghaus, R.	Environmental Pollution	202		120	125	2015	4.143 PACES
123	Analysis and interpretation of 18 years of mercury observations since 1996 at mace head, Ireland.	Weigelt, A., Ebinghaus, R., Manning, A. J., Derwent, R. G., Simmonds, P. G., Spain, T. G., Slemr, F.	Atmospheric Environment	100		85	93	2015	3.283 PACES
124	First time DANN barcoding of the common shipworm <i>teredo navalis</i> linnaeus 1758	Weigelt, R., Borges, L.M.S. et al.	J. of Experimental Marine Biology and Ecology	475				2015	1.866 PACES
125	Analysis of phytoplankton distribution and community structure in the German Bight with respect to the different size classes.	Wollschlaeger, J.; Wiltshire, K.H.; Petersen, W.; Metfies, K.	Journal of Sea Research	99		83	96	2015	1.990 PACES
126	Novel flame retardants (N-FRs). polybrominated diphenyl ethers (PBDEs) and dioxin-like polychlorinated biphenyls (DL-PCBs) in fish, penguin, and skua from King George island, Antarctica	Wolschke, H., Meng, X.-Z.; Xie, Z., Ebinghaus, R., Cai, M.	Marine Pollution Bulletin	96	2	513	518	2015	2.991 PACES
127	Organophosphorus flame retardants and plasticizers in the aquatic environment: A case study of the ELBE RIVER	Wolschke, H., Suehring, R., Xie, Z., Ebbinghaus, R.	Environmental Pollution		206	488	493	2015	4.143 PACES
128	Hyperspectral Differentiation of Phytoplankton Taxonomic Groups: A Comparison between Using Remote Sensing Reflectance and Adsorption Spectrag	Xi, H., Hieronymi, H. et al.	Remote Sensing	7	11	14781	14805	2015	3.180 PACES
129	Beam attenuation, scattering and backscattering of marine particles in relation to particle size distribution and composition in Hudson Bay (Canada)	Xi, H., Larouche, P., Michel, C., Tnag, S.	Journal of Geophysical Research	120	5	3286	3300	2015	3.426 PACES

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130	Neutral poly-/perfluoroalkyl substances in air and snow from the arctic.	Xie, Z., Wang, Z., Mi, W., Möller, A., Wolschke, H., & Ebinghaus, R.	Scientific Reports	5				2015	5.578 PACES
131	In situ response of bay productivity to nutrient loading from a small tributary: The Delaware Bay-Murderkill Estuary tidally-coupled biogeochemical reactor	Yoynova, Y., Lebaron, K. et al.	Estuarine Coastal and Shelf Science	160		33	48	2015	2.057 PACES
132	Reconciling reconstructed and simulated features of the winter Pacific/North American pattern in the early 19th century	Zanchettin, D., Bothe, o., et al.	Climate of the past	11	6	939	958	2015	3.382 PACES
133	Spatial distribution of perfluoroalkyl acids in surface sediments of the German Bight, North Sea.	Zhao, Z., Xie, Z., Tang, J., Zhang, G., & Ebinghaus, R.	Science of the Total Environment	511		145	152	2015	4.099 PACES
134	Seasonal variations and spatial distributions of perfluoroalkyl substances in the rivers Elbe and lower Weser and the North Sea	Zhao, Zhen; Xie, Zhiyong; Tang, Jianhui; et al	Chemosphere	129		118	125	2015	3.340 PACES
135	Selected current-use pesticides (CUPs) in coastal and offshore sediments of Bohai and Yellow seas	Zhong, Guangcai; Tang, Jianhui; Xie, Zhiyong; et al.	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH	22	3	1653	1661	2015	2.828 PACES
136	Source attribution and process analysis for atmospheric mercury in eastern China simulated by CMAQ-Hg	Zhu, J., Wang, T., Bieser, J., Matthias, V.	Atmospheric Chemistry and Physics	15		8767	8779	2015	5.053 PACES

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1	Distribution of intermediate water masses in the subtropical northeast Atlantic	Bashmachnikov, I.; Nascimento, A.; Neves, F.; Menezes, T.; Kuldunov, N.V.	Ocean Science	11	5	803	827	2015	2.232	PACES II / GERICS
2	Polynya impacts on water properties in a Northeast Greenland fjord Estuarine	Dmitrenko, I.A.; Kirillov, S.A.; Rysgaard, S.; Barber, D.G.; Babb, D.G.; Pedersen, L.T.; Koldunov, N.V.; Boone, W.; Crabeck, O.; Mortensen, J.	Coastal and Shelf Science					2015	2.057	PACES II / GERICS
3	Temporal and spatial scaling impacts on extreme precipitation	Eggert, B.; Berg, P.; Haerter, J.O.; Jacob, D.; Moseley, C.	Atmospheric Chemistry and Physics	15	10	5957	5971	2015	5.053	PACES II / GERICS
4	Human Mobility, Climate Adaptation, and Development	Gioli, G., Hugo, G., Manez Costa, M. & Scheffran, J.	Migration and Development	1-6				2015	-	PACES II / GERICS
5	Statistical precipitation bias correction of gridded model data using point measurements	Haerter, J.O.; Eggert, B.; Moseley, C.; Piani, C.; Berg, P.:	Geophysical Research Letters	42	6	1919	1929	2015	4.196	PACES II / GERICS
6	Free-riders to forerunners	Hasselmann, K.; Cremades, R., Filatova, T; Hewitt, R.; Jaeger, C.; Kovalevsky, D.; Voinov, A.; Winder, N	Nature Geoscience		8	895	898	2015	11.740	PACES II / GERICS
7	Arctic Ocean heat impact on regional ice decay - a suggested positive feedback	Ivanov, V.; Alexeev, V.; Koldunov, N.V.; Repina, I.; Sandoe, A.B.; Smedsrud, L.H.; Smirnov, A	Journal of Physical Oceanography					2015	2.856	PACES II / GERICS
8	Applying Satellite Data for Validation of the Hydrodynamic Model for the Arctic Ocean	Koldunov, A.V.; Koldunov, N.V.; Volkov, D.L.; Belonenko, T.V	Current Problems in Remote Sensing of the Earth from Space - Sovremennye Problemy Distantionnogo Zondirovaniya Zemli iz Kosmosa	12	6	111	124	2015	0	PACES II / GERICS
9	Identifying climate change information needs for the Himalaya region - Results from the GLACINDIA Stakeholder Workshop and Training Program	Koldunov, N.V.; Kumar, P.; Rasmussen, R.; Ramanathan, A.L.; Nesje, A.; Engelhardt, M.; Tiwari, M.; Haensler, A.; Jacob, D	Bulletin of the American Meteorological Society					2015	11.808	PACES II / GERICS
10	Response of Karakoram-Himalayan glaciers to climate variability and climatic change: A regional climate model assessment	Kumar, P.; Kotlarski, S.; Moseley, C.; Sieck, K.; Frey, H.; Stoffel, M.; Jacob, D.:	Geophysical Research Letters	42	6	1818	1825	2015	4.196	PACES II / GERICS
11	Climate for Culture: assessing the impact of climate change on the future indoor climate in historic buildings using simulations	Leissner Johanna , Ralf Kilian, Lola Kotova, Daniela Jacob, Uwe Mikolajewicz, Tor Broström, Jonathan Ashley-Smith, Henk L. Schellen, Marco Martens, Jos van Schijndel, Florian Antretter, Matthias Winkler, Chiara Bertolin, Dario Camuffo, Goran Simeunovic and Tomáš Vyhlídal	Herit Sci		3	38		2015	Scopus	PACES II / GERICS
12	Reconstructing European forest management from 1600 to 2010	McGrath, M.J.; Luyssaert, S.; Meyfroidt, P.; Kaplan, J.O.; Buergi, M.; Chen, Y.; Erb, K.; Gimmi, U.; McInerney, D.; Naudts, K.; Otto, J.; Pasztor, F.; Ryder, J.; Schelhaas, M.-J.; Valade, A.	Biogeosciences	12	14	4.291	4.316	2015	3.978	PACES II / GERICS

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13	A vertically discretised canopy description for ORCHIDEE (SVN r2290) and the modifications to the energy, water and carbon fluxes	Naudts, K.; Ryder, J.; McGrath, M.J.; Otto, J.; Chen, Y.; Valade, A.; Bellasen, V.; Berhongaray, G.; Boenisch, G.; Campioli, M.; Ghattas, J.; De Groote, T.; Haverd, V.; Kattge, J.; MacBean, N.; Maignan, F.; Merilae, P.; Penuelas, J.; Peylin, P.; Pinty, B.; Pretzsch, H.; Schulze, E.D.; Solyga, D.; Vuichardt, N.; Yan, Y.; Luyssaert, S	Geoscientific Model Development	8	7	2035	2065	2015	3.654	PACES II / GERICS
14	Robustness of Ensemble Climate Projections Analyzed with Climate Signal Maps: Seasonal and Extreme Precipitation for Germany	Pfeifer, S.; Buelow, K.; Gobiet, A.; Haensler, A.; Mudelsee, M.; Otto, J.; Rechid, D.; teichmann, C.; Jacob, D.:	Atmosphere	6	5	677	698	2015	1.132	PACES II / GERICS
15	A concerted approach towards twentyfirst century projections of regional temperature and precipitation over South America	Sanchez, E.; Solman, S.; Remedio, A.R.C.; Berbery, H.; Samuelsson, P.; Da Rocha, R.P.; Mourao, C.; Li, L.; Marengo, J.; de Castro, M.; Jacob, D	Climate Dynamics	45	7	2193	2212	2015	4.673	PACES II / GERICS