

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
1	Carbon Nanomembranes (CNMs) Supported by Polymer: Mechanics and Gas Permeation	Ai, M.; Shishatskiy, S.; Wind, J.; Zang, X.; Nottbohm, C.T.; Mellech, N.; Winter, A.; Vieker, H.; Qiu, J.; Dietz, K.-J.; Goelzhaeuser, A.; Beyer, A.	Advanced Materials	26	21	3421	3426	2014	15.409	AEM
2	Dual layer inorganic coating on magnesium for delaying the biodegradation for bone fixation implants	Alabbasi, A.; Kannan, M.B.; Blawert, C.	Materials Letters	124		188	191	2014	2269	AEM
3	Biodegradable polymer for sealing porous PEO layer on pure magnesium: An in vitro degradation study	Alabbasi, A.; Mehjabeen, A.; Kannan, M.B.; Ye, Q.; Blawert, C.	Applied Surface Science	301		463	467	2014	2538	AEM
4	Effect of the friction riveting process parameters on the joint formation and performance of Ti alloy/short-fibre reinforced polyether ether ketone joints	Altmeyer, J., dos Santos, J.F., Amancio-Filho, S.T.	Materials and Design	60		164	176	2014	Scopus	AEM
5	Characterization and wear behaviour of PEO coatings on 6082-T6 aluminium alloy with incorporated $\alpha$ -Al <sub>2</sub> O <sub>3</sub> particles	Arrabal, R.; Mohedano, M.; Matykina, E.; Pardo, A.; Mingo, B.; Merino, M.C.	Surface and Coatings Technology					2014	2199	AEM
6	Continuum mechanical modeling of laser-pulsed heating in polycrystals: A multi-physics problem of coupling diffusion, mechanics, and thermal waves	Bargmann, S., Favata, A.	ZAMM Zeitschrift für Angewandte Mathematik und Mechanik	94	6	487	498	2014	1.008	AEM
7	A revised exposition of the green-naghdi theory of heat propagation	Bargmann, S., Favata, A., Podio-Guidugli, P.	Journal of Elasticity	114	2	143	154	2014	1.043	AEM
8	A computational study of a model of single-crystal strain-gradient viscoplasticity with an interactive hardening relation	Bargmann, S., Reddy, B.D., Klusemann, B.	International Journal of Solids and Structures	51	15 bis 16	2754	2760	2014	2.035	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
9	Inherent and induced anisotropic finite visco-plasticity with applications to the forming of DC06 sheets	Behrouzi, A., Soyarslan, C., Klusemann, B., Bargmann, S.	International Journal of Mechanical Sciences	89		101	111	2014	2.061	AEM
10	NaAlH <sub>4</sub> Production from Waste Aluminum by Reactive Ball Milling	Bergemann, Nils, Claudio Pistidda, Chiara Milanese, Alessandro Girella, Bjarne R.S. Hansen, Johannes Wurr, José M. Bellosta von Colbe, et al. 2014.	International Journal of Hydrogen Energy	39	18	9877	9882	2014	2.930	AEM
11	Mobilstor: Materials for Sustainable Energy Storage Techniques - Lithium Containing Compounds for Hydrogen and Electrochemical Energy Storage	Boehme, Bodo; Minella, Christian Bonatto; Thoss, Franziska; Lindemann, Inge; Rosenburg, Martin; Pistidda, Claudio; Moller, Kasper T.; Jensen, Torben R.; Giebeler, Lars; Baitinger, Michael; Gutfleisch, Oliver; Ehrenberg, Helmut; Eckert, Juergen; Grin, Yuri; Schultz, Ludwig	ADVANCED ENGINEERING MATERIALS	16	10	1189	1195	2014	1.508	AEM
12	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	2014	2119	AEM
13	Characterization of Metal Hydrides by in-Situ XRD	Bösenberg, Ulrike, Claudio Pistidda, Martin Tolkiehn, Nina Busch, Ivan Saldan, Karina Suarez-Alcantara, Anna Arendarska, Thomas Klassen, and Martin Dornheim.	International Journal of Hydrogen Energy	39	18	9899	9903	2014	2.930	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
14	The effect of Nd on the tension and compression deformation behavior of extruded Mg-1Mn (wt pct) at temperatures between 298 K and 523 K (25 °C and 250 °C)	Chakkedath, A.; Bohlen, J.; Yi, S. B.; Letzig, D.; Chen, Z.; Boehlert, C. J.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	45	8	3254	3274	2014	1730	AEM
15	Mechanochemical synthesis of amorphous silicon nanoparticles	Chaudhary, Anna-Lisa; Sheppard, Drew A.; Paskevicius, Mark; Saunders, Martin; Buckley, Craig E.	RSC ADVANCES	4	42	21979	21983	2014	3.708	AEM
16	Mg <sub>2</sub> Si Nanoparticle Synthesis for High Pressure Hydrogenation	Chaudhary, Anna-Lisa; Sheppard, Drew A.; Paskevicius, Mark; Webb, Colin J.; Gray, Evan Mac A.; Buckley, Craig E.	JOURNAL OF PHYSICAL CHEMISTRY C	118	2	1240	1247	2014	4.835	AEM
17	Preparation and characterization of a nanostructured lipid carrier for a poorly soluble drug	Chen Y., Yang X., Zhao L., Almásy L., Garamus V., Willumeit R., Zou A.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	455		36	43	2014	2.354	PNI / AEM
18	Measurement and calculation of the viscosity of metals - A review of the current status and developing trends	Cheng, J.; Groebner, J.; Hort, N.; Kainer, K.U.; Schmid-Fetzer, R.	Measurement Science and Technology	25		6		2014		Scopus AEM
19	Numerical prediction of the stress-strain response of a lamellar TiAl polycrystal using a two-scale modelling approach	Cornec, A., Kabir, M.R., Huber, N.	Materials Science and Engineering A	620		273	285	2014	2.409	AEM
20	Hot tearing mechanisms of B206 aluminum-copper alloy	D'Elia, F.; Ravindran, C.; Sediako, D.; Kainer, K.U.; Hort, N.	Materials and Design	64		44	55	2014		Scopus AEM
21	Hybrid friction diffusion bonding of aluminium tube-to-tube-sheet connections in coil-wound heat exchangers	Dethlefs, A., Roos, A., dos Santos, J.F., Wimmer, G.	Materials and Design	60		7	12	2014		Scopus AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
22	Effect of aluminum on microstructural evolution during hot deformation of TX32 magnesium alloy	Dharmendra, C.; Rao, K.P.; Zhao, F.; Prasad, Y.V.R.K.; Hort, N.; Kainer, K.U.	Journal of Materials Science	49	17	5885	5898	2014	2.305	AEM
23	Effect of silicon content on hot working, processing maps, and microstructural evolution of cast TX32–0.4Al magnesium alloy	Dharmendra, C.; Rao, K.P.; Zhao, F.; Prasad, Y.V.R.K.; Hort, N.; Kainer, K.U.	Materials Science and Engineering A	606		11	23	2014	2.409	AEM
24	A study of mechanical anisotropy of Mg-Zn-Rare earth alloy sheet	Dobron, P.; Balík, J.; Chmelík, F.; Illkovič, K.; Bohlen, J.; Letzig, D.; Lukáč, P.	Journal of Alloys and Compounds	588		628	632	2014	2.726	AEM
25	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., Amancio-Filho, S.T.	Materials and Design					2014		Scopus AEM
26	Effective Optical Properties of Plasmonic Nanocomposites	Etrich, C.; Fahr, S.; Hedayati, M.K.; Faupel, F.; Elbahri, M.; Rockstuhl, C.	Materials	7	2	727	741	2014	1.879	AEM
27	Mechanical behaviour of dissimilar friction stir welded tailor welded blanks in Al-Mg alloys for Marine applications	Feistauer, E.E., Bergmann, L.A., Barreto, L.S., dos Santos, J.F.	Materials and Design	59		323	332	2014		Scopus AEM
28	Microstructural Evolution in Gamma Titanium Aluminides During Severe Hot-Working	Froebel, U.; Stark, A.	Metallurgical and Materials Transactions A	46	1	439	455	online 2014	1.730	AEM
29	Effect of Azidation and UV Cross-linking of Poly(epichlorohydrin) and Poly[(ethylene oxide)-ran-(epichlorohydrin)] on Gas Transport Properties	Gacal, B.N.; Filiz, V.; Shishatskiy, S.; Neumann, S.; Wind, J.; Abetz, V.	Journal of Membrane Science	467		126	135	2014	4.908	AEM
30	Microstructure and Texture Evolution in an Intermetallic Beta-Stabilized TiAl Alloy During Forging and Subsequent Isothermal Annealing	Gaitzenauer, A.; Stark, A.; Gosslar, D.; Clemens, H.; Mayer, S.	Advanced Engineering Materials	16	4	445	451	2014	1.508	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
31	Microstructures and mechanical properties of pure Mg processed by rotary swaging	Gan, W. M.; Huang, Y. D.; Wang, R.; Wang, G. F.; Srinivasan, A.; Brokmeier, H.-G.; Schell, N.; Kainer, K. U.; Hort, N.	Materials and Design	63		83	88	2014	Scopus PNI / AEM	
32	Influence of rare-earth addition on the long-period stacking ordered phase in cast Mg-Y-Zn alloys	Garcés, G., Requena, G., Tolnai, D., Pérez, P., Adeva, P., Stark, A., Schell, N.	Journal of Materials Science	49	7	2714	2722	2014	2.305 AEM / PNI	
33	Analysis of glass transition and relaxation processes of low molecular weight polystyrene-Beta-polyisoprene diblock copolymers	Georgopoulos, P.; Rangou, S.; Haenelt, T.G.; Abetz, C.; Meyer, A.; Filiz, V.; Handge, U.A.; Abetz, V.	Colloid and Polymer Science	292	8	1877	1891	2014	2.410 AEM	
34	Destabilization of LiBH <sub>4</sub> by nanoconfinement in PMMA-co-BM polymer matrix for reversible hydrogen storage	Gosalawit-Utke, Rapee; Meethom, Sukanya; Pistidda, Claudio; Milanese, Chiara; Laipple, Daniel; Saisopa, Thanit; Marini, Amedeo; Klassen, Thomas; Dornheim, Martin	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	39	10	5019	5029	2014	2.930 AEM	
35	2LiBH <sub>4</sub> -MgH <sub>2</sub> -0.13TiCl <sub>4</sub> confined in nanoporous structure of carbon aerogel scaffold for reversible hydrogen storage	Gosalawit-Utke, Rapee; Milanese, Chiara; Javadian, Payam; Girella, Alessandro; Laipple, Daniel; Puszkiel, Julian; Cattaneo, Alice S.; Ferrara, Chiara; Wittayakhun, Jatuporn; Skibsted, Jorgen; Jensen, Torben R.; Marini, Amedeo; Klassen, Thomas; Dornheim, Martin	JOURNAL OF ALLOYS AND COMPOUNDS	599		78	86	2014	2.726 AEM	
36	Effective nanoconfinement of 2LiBH <sub>4</sub> -MgH <sub>2</sub> via simply MgH <sub>2</sub> premilling for reversible hydrogen storages	Gosalawit-Utke, Rapee; Thiangviriyi, Sophida; Javadian, Payam; Laipple, Daniel; Pistidda, Claudio; Bergemann, Nils; Horstmann, Christian; Jensen, Torben R.; Klassen, Thomas; Dornheim, Martin	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	39	28	15614	15626	2014	2.930 AEM	

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
37	Friction Spot Joining of aluminum AA2024/carbon-fiber reinforced poly(phenylene sulfide) composite single lap joints: Microstructure and mechanical performance	Goushegir, S.M., dos Santos, J.F., Amancio-Filho, S.T.	Materials and Design	54		196	206	2014	Scopus	AEM
38	Morphology and elasticity of polystyrene-block-polyisoprene diblock copolymers in the melt	Haenelt, T.G.; Georgopoulos, P.; Abetz, C.; Rangou, S.; Alisch, D.; Meyer, A.; Handge, U.A.; Abetz, V.	Korea-Australia Rheology Journal	26	3	263	275	2014	0.632	AEM
39	Protein separation performance of self-assembled block copolymer membranes	Hahn, J.; Clodt, J.I.; Filiz, V.; Abetz, V.	RSC Advances [Online Ressource]	4	20	10252	10260	2014	3.708	AEM
40	Structure of polymeric nanoparticles in surfactant-stabilized aqueous dispersions of high-molar-mass hydrophobic graft copolymers	Hajduová J., Procházka K., Raus V., Šlouf M., Krzyzaneck V., Garamus V., Štěpánek M.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	456		10	17	2014	2.354	PNI / AEM
41	The hybrid concept for realization of an ultra-thin plasmonic metamaterial antireflection coating and plasmonic rainbow	Hedayati, M. K.; Fahr, S.; Etrich, C.; Faupel, F.; Rockstuhl, C.; Elbahri, M.	Nanoscale	6	11	6037	6045	2014	6.739	AEM
42	Plasmonic tunable metamaterial absorber as ultraviolet protection film	Hedayati, M. K.; Zillohu, A. U.; Strunskus, T.; Faupel, F.; Elbahri, M.	Applied Physics Letters	104	4	41103		2014	3.515	AEM
43	Review of Plasmonic Nanocomposite Metamaterial Absorber	Hedayati, M.K.; Faupel, F.; Elbahri, M.	Materials	7	2	1221	1248	2014	1.879	AEM
44	Photo-driven Super Absorber as an Active Metamaterial with a Tunable Molecular-Plasmonic Coupling	Hedayati, M.K.; Javaheri, M.; Zillohu, A.U.; El-Khozondar, H.J.; Bawa'aneh, M.S.; Lavrinenko, A.; Faupel, F.; Elbahri, M.	Advanced Optical Materials	2	8	705	710	2014	0	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
45	Effect of rare earth additions on the critical resolved shear stresses of magnesium alloys	Herrera-Solaz, V.; Hidalgo-Manrique, P.; Pérez-Prado, M. T.; Letzig, D.; Llorca, J.; Sgurado, J.	Materials Letters	128		199	203	2014	2.269	AEM
46	Control of the mechanical asymmetry in an extruded MN11 alloy by static annealing	Hidalgo-Manrique, P.; Yi, S. B.; Bohlen, J.; Letzig, D.; Pérez-Prado, M. T.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	45	8	3282	3291	2014	1.730	AEM
47	Simulation of Corrosion Product Deposit Layer Growth on Bare Magnesium Galvanically Coupled to Aluminum	Hoeche, D.	Journal of the Electrochemical Society	162	1	C1	C11	2014	2.859	AEM
48	Nanocomposite Electrospun Nanofiber Membranes for Environmental Remediation	Homaeigohar, S.; Elbahri, M.	Materials [Online Ressource]	7	2	1017	1045	2014	1.879	AEM
49	Deformation-induced internal stresses in multiphase titanium aluminide alloys	Hoppe, R.; Appel, F.	Acta Materialia	64		169	178	2014	3.940	AEM
50	Scaling laws of nanoporous metals under uniaxial compression	Huber, N., Viswanath, R.N., Mameka, N., Markmann, J., Weißmüller, J.	Acta Materialia	67		252	265	2014	3.940	AEM
51	Computational modeling of intrinsically induced strain gradients during compression of c-axis-oriented magnesium single crystal	Husser, E., Lilleodden, E., Bargmann, S.	Acta Materialia	71		206	219	2014	3.940	AEM
52	The influence of focused-ion beam preparation technique on microcompression investigations: Lathe vs. annular milling	Hütsch, J., Lilleodden, E.T.	Scripta Materialia	77		49	51	2014	2968	AEM
53	Increased room temperature formability of Mg AZ31 by high speed Friction Stir Processing	Hütsch, L.L., Hütsch, J., Herzberg, K., dos Santos, J.F., Huber, N.	Materials and Design	54		380	388	2014	Scopus	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
54	Effect of aluminium and calcium on the microstructure, texture, plastic deformation and related acoustic emission of extruded magnesium–manganese alloys	Illkova, K.; Dobron, P.; Chmelik, F.; Kainer, K.U.; Balik, J.; Yi, S.; Letzig, D.; Bohlen, J.	Journal of Alloys and Compounds	617		253	264	2014	2.726	AEM
55	Improvement of the creep properties of TiAl alloys densified by Spark Plasma Sintering	Jabbar, H.; Monchoux, J.-P.; Thomas, M.; Pyczak, F.; Couret, A.	Intermetallics	46		1	3	2014	2.119	AEM
56	Boron-nitrogen based hydrides and reactive composites for hydrogen storage	Jepsen, Lars H.; Ley, Morten B.; Lee, Young-Su; Cho, Young Whan; Dornheim, Martin; Jensen, Jens Oluf; Filinchuk, Yaroslav; Jorgensen, Jens Erik; Besenbacher, Flemming; Jensen, Torben R.	MATERIALS TODAY	17	3	129	135	2014	10.850	AEM
57	alpha-Fe <sub>2</sub> O <sub>3</sub> films for photoelectrochemical water oxidation - insights of key performance parameters	Jia, Lichao; Harbauer, Karsten; Bogdanoff, Peter; Herrmann-Geppert, Iris; Ramirez, Alejandra; van de Krol, Roel; Fiechter, Sebastian	JOURNAL OF MATERIALS CHEMISTRY A	2	47	20196	20202	2014	0	AEM
58	Friction spot welding of PMMA with PMMA/silica and PMMA/silica-g-PMMA nanocomposites functionalized via ATRP	Junior, W.S.; Emmeler, T.; Abetz, C.; Handge, U.A.; dos Santos, J.F.; Amancio-Filho, S.T.; Abetz, V.	Polymer	55	20	5146	5159	2014	3.766	AEM
59	Feasibility study of friction spot welding of dissimilar single-lap joint between Poly(methyl methacrylate) and Poly(methyl methacrylate)-SiO <sub>2</sub> nanocomposite	Junior, W.S.; Handge, U.A.; dos Santos, J.F.; Abetz, V.; Amancio-Filho, S.T.	Materials & Design	64		246	250	2014	3.171	AEM
60	Metallurgical and mechanical properties of Ti-24Nb-4Zr-8Sn alloy fabricated by metal injection molding	Kafkas, F.; Ebel, T.	Journal of Alloys and Compounds	617		359	366	2014	2.726	AEM



No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
61	Structural analysis of calcium reactive hydride composite for solid state hydrogen storage	Karimi, Fahim; Pranzas, P. Klaus; Hoell, Armin; Vainio, Ulla; Welter, Edmund; Raghuwanshi, Vikram S.; Pistidda, Claudio; Dornheim, Martin; Klassen, Thomas; Schreyer, Andreas	JOURNAL OF APPLIED CRYSTALLOGRAPHY	47		67	75	2014	3.950	AEM / PNI
62	Fatigue and fatigue crack propagation of laser beam-welded AA2198 joints and integral structures	Kashaev, N., Chupakhin, S., Enz, J., Ventzke, V., Groth, A., Horstmann, M., Riekehr, S.	Advanced Materials Research	891-892		1457	1462	2014	Scopus	AEM
63	Fatigue, fatigue crack propagation and mechanical fracture behaviour of laser beam-welded AZ31 magnesium sheets	Kashaev, N., Riekehr, S., Horstmann, M., Ventzke, V.	Advanced Materials Research	783-786		2310	2315	2014	Scopus	AEM
64	Postmodification of PS-b-P4VP Diblock Copolymer Membranes by ARGENT ATRP	Keskin, D.; Clodt, J.I.; Hahn, J.; Abetz, V.; Filiz, V.	Langmuir	30	29	8907	8914	2014	4.384	AEM
65	Synthesis, characterization and gas permeation properties of anthracene maleimide-based polymers of intrinsic microporosity	Khan, M.M.; Bengtson, G.; Neumann, S.; Rahman, M.M.; Abetz, V.; Filiz, V.	RSC Advances [Online Ressource]	4	61	32148	32160	2014	3.708	AEM
66	Microstructure-based characterization of the corrosion behavior of the creep resistant Mg-Al-Ba-Ca alloy DieMag422	Klein, M.; Kuhlmann, F.; Wittke, P.; Dieringa, H.; Walther, F.	Materials and Corrosion	65	10	991	998	2014	Scopus	AEM
67	Effect of iron-carbide formation on the number of active sites in Fe-N-C catalysts for the oxygen reduction reaction in acidic media	Kramm, U.I.; Herrmann-Geppert, I.; Fiechter, S.; Zehl, G.; Zizak, I.; Dorbrandt, I.; Schmeisser, D.; Bogdanoff, P.	Journal of Materials Chemistry A	2	8	2663	2670	2014	0	AEM
68	The interaction of precipitation and deformation in a binary Mg-Ca alloy at elevated temperatures	Lalpoor, M.; Miroux, A.; Mendis, C.L.; Hort, N.; Offerman, S.E.	Materials Science and Engineering A	609		116	124	2014	2.409	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
69	Characterization and modeling of the influence of artificial aging on the microstructural evolution of age-hardenable AlSi10Mg(Cu) aluminum alloys	Larráyoiz Izcarra, X., Guirao Blank, A., Pyczak, F., Staron, P., Schumann, S., Huber, N.	Materials Science and Engineering A	610		46	53	2014	2409 AEM / PNI	
70	Guidelines for checking performance and verifying accuracy of rotational rheometers: viscosity measurements in steady and oscillatory shear	Laun, M.; Auhl, D.; Brummer, R.; Dijkstra, D.J.; Gabriel, C.; Mangnus, M.A.; Ruellmann, M.; Zoetelief, W.; Handge, U.A.	Pure and Applied Chemistry	86	12	1945	1968	2014	3.112 AEM	
71	Complex hydrides for hydrogen storage - new perspectives	Ley, Morten B.; Jepsen, Lars H.; Lee, Young-Su; Cho, Young Whan; von Colbe, Jose M. Bellosta; Dornheim, Martin; Rokni, Masoud; Jensen, Jens Oluf; Sloth, Mikael; Filinchuk, Yaroslav; Jørgensen, Jens Erik	MATERIALS TODAY	17	3	122	128	2014	10.850 AEM	
72	Effects of tool rotational and welding speed on microstructure and mechanical properties of bobbin-tool friction-stir welded Mg AZ31	Li, W.Y., Fu, T., Hütsch, L., Hilgert, J., Wang, F.F., dos Santos, J.F., Huber, N.	Materials and Design	64		714	720	2014	Scopus AEM	
73	Stability of blended polymeric materials for CO2 separation	Lillepaerg, J.; Georgopoulos, P.; Shishatskiy, S.	Journal of Membrane Science	467		269	278	2014	4.908 AEM	
74	Preparation of Freestanding Conjugated Microporous Polymer Nanomembranes for Gas Separation	Lindemann, P.; Tsotsalas, M.M.; Shishatskiy, S.; Abetz, V.; Krolla-Sidenstein, P.; Azucena, C.A.; Monnereau, L.; Beyer, A.; Götzhäuser, A.; Mugnaini, V.; Gliemann, H.; Braese, S.; Wöll, C.	Chemistry of Materials	26		7189	7193	2014	8.535 AEM	
75	Selective laser melting of a beta-solidifying TiMn-B1 titanium aluminide alloy	Loeber, L.; Schimansky, F.P.; Kuehn, U.; Pyczak, F.; Eckert, J.	Journal of Materials Processing Technology	214	9	1852	1860	2014	2.041 AEM	

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
76	Transport phenomena versus intrinsic kinetics: Hydrogen sorption limiting sub-process in metal hydride beds	Lozano, Gustavo A.; von Colbe, Jose M. Bellosta; Klassen, Thomas; Dornheim, Martin	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	39	33	18952	18957	2014	2.930	AEM
77	Magnesium-based implants: a mini review	Luthringer B., Feyerabend F., Willumeit-Römer R.	Magnesium Research	27	4	142	154	2014	1.556	AEM
78	Phosphatidylethanolamine biomimetic coating increases mesenchymal stem cell osteoblastogenesis	Luthringer B., Katha U.M., Willumeit R.	Journal of Materials Science - Materials in Medicine	25	11	2561	2571	2014	2.379	AEM / PNI
79	Electrical stiffness modulation - Confirming the impact of surface excess elasticity on the mechanics of nanomaterials	Mameka, N., Markmann, J., Jin, H.-J., Weissmüller, J.	Acta Materialia	76		272	280	2014	3.940	AEM
80	Corrosion behavior of Mg-2.4Zn alloy micro-alloyed with Ag and Ca	Mandal, M.; Moon, A. P.; Deo, G., Mendis, C. L.; Mondal, K.	Corrosion Science	78		172	182	2014	3.686	AEM
81	Energy-efficient PEO process of aluminium alloys	Matykina, E.; Arrabal, R.; Pardo, A.; Mohedano, M.; Mingo, B.; Rodriguez, I.; Gonzalez, J.	Materials Letters	127		13	16	2014	2.269	AEM
82	Bed geometries, fueling strategies and optimization of heat exchanger designs in metal hydride storage systems for automotive applications: A review	Mazzucco, Andrea; Dornheim, Martin; Sloth, Michael; Jensen, Torben R.; Jensen, Jens Oluf; Rokni, Masoud	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	39	30	17054	17074	2014	2.930	AEM
83	Reactivity and Microstructure of Al <sub>2</sub> O <sub>3</sub> -Reinforced Magnesium-Matrix Composites	Mounib, M.; Pavese, M.; Badini, C.; Lefebvre, W.; Dieringa, H.	Advances in Materials Science and Engineering			476079		2014	0.897	AEM
84	Crystal structure solution of KMg(ND)(ND <sub>2</sub> ): An ordered mixed amide/imide compound	Napolitano, Emilio; Dolci, Francesco; Campesi, Renato; Pistidda, Claudio; Hoelzel, Markus; Moretto, Pietro; Enzo, Stefano	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	39	15	8181	8183	2014	2.930	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
85	Influence of interfaces on effective properties of nanomaterials with stochastically distributed spherical inclusions	Nazarenko, L., Bargmann, S., Stolarski, H.	International Journal of Solids and Structures	51	5	954	966	2014	2.035	AEM
86	Friction and wear properties modification of Ti-6Al-4V alloy surfaces by implantation of multi-charged carbon ions	Pierret, C.; Maunoury, L.; Monnet, I.; Bouffard, S.; Benyagoub, A.; Grygiel, C.; Busardo, D.; Muller, D.; Hoeche, D.	Wear	319	1 bis 2	19	26	2014	1.862	AEM
87	Mg <sub>2</sub> systems from waste Mg alloys	Pistidda, C.; Bergemann, N.; Wurr, J.; Rzeszutek, A.; Moller, K. T.; Hansen, B. R. S.; Garroni, S.; Horstmann, C.; Milanese, C.; Girella, A.; Metz, O.; Taube, K.; Jensen, T. R.; Thomas, D.; Liermann, H. P.; Klassen, T.; Dornheim, M.	JOURNAL OF POWER SOURCES	270		554	563	2014	5.211	AEM
88	Effect of the Partial Replacement of CaH <sub>2</sub> with CaF <sub>2</sub> in the Mixed System CaH <sub>2</sub> + MgB <sub>2</sub>	Pistidda, C.; Karimi, F.; Garroni, S.; Rzeszutek, A.; Minella, C. Bonatto; Milanese, C.; Le, T. T.; Rude, L. H.; Skibsted, J.; Jensen, T. R.; Horstmann, C.; Gundlach, C.; Tolkiehn, M.; Pranzas, P. K.; Schreyer, A.; Klassen, T.; Dornheim, M.	JOURNAL OF PHYSICAL CHEMISTRY C	118	49	28409	28417	2014	4.835	AEM / PNI
89	Effect of NaH/MgB <sub>2</sub> Ratio on the Hydrogen Absorption Kinetics of the System NaH + MgB <sub>2</sub>	Pistidda, Claudio, Daphiny Pottmaier, Fahim Karimi, Sebastiano Garroni, Agnieszka Rzeszutek, Martin Tolkiehn, Maximilian Fichtner, et al. 2014.	International Journal of Hydrogen Energy	39	10	5030	5036	2014	2.930	AEM / PNI

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
90	Hydrogen storage in Mg-LiBH <sub>4</sub> composites catalyzed by FeF <sub>3</sub>	Puszkiewski, Julian; Gennari, Fabiana C.; Arneodo Laroche, Pierre; Troiani, Horacio E.; Karimi, Fahim; Pistidda, Claudio; Gosalawit-Utke, Rapee; Jepsen, Julian; Jensen, Torben R.; Gundlach, Carsten; Tolkiehn, Martin; von Colbe, Jose Bellosta; Klassen, Thomas; Dornheim, Martin,	JOURNAL OF POWER SOURCES	267		799	811	2014	5.211	AEM / PNI
91	The Preparation and Corrosion Performance of Self-Assembled Monolayers of Stearic Acid and MgO Layer on Pure Magnesium	Qiao, L.; Wang, Y.; Wang, W.; Mohedano, M.; Gong, C.; Gao, J.	Materials Transactions	55	8	1337	1343	2014	0.611	AEM
92	Tailoring the Morphology of Self-Assembled Block Copolymer Hollow Fiber Membranes	Radjabian, M.; Koll, J.; Buhr, K.; Vainio, U.; Abetz, C.; Handge, U.A.; Abetz, V.	Polymer	55	13	2986	2997	2014	3.766	AEM / PNI
93	Influence of temperature upon properties of tailor-made PEBA <sup>®</sup> MH 1657 nanocomposite membranes for post-combustion CO <sub>2</sub> capture	Rahman, M.M.; Shishatskiy, S.; Abetz, C.; Georgopoulos, P.; Neumann, S.; Khan, M.M.; Filiz, V.; Abetz, V.	Journal of Membrane Science	469		344	354	2014	4.908	AEM
94	Self-organized isoporous membranes with tailored pore sizes	Rangou, S.; Buhr, K.; Filiz, V.; Clodt, J.I.; Lademann, B.; Hahn, J.; Jung, A.; Abetz, V.	Journal of Membrane Science	451		266	275	2014	4.908	AEM
95	Investigation of historical hard rubber ornaments of Charles Goodyear	Raue, M.; Wambach, M.; Glöggler, St.; Grefen, D.; Kaufmann, R.; Abetz, C.; Georgopoulos, G.; Handge, U.A.; Mang, T.; Blümich, B.; Abetz, V.	Macromolecular Chemistry and Physics	2015	3	245	254	2014	2.451	AEM
96	Dye-Mediated Growth of 2D Coppercarboxylate (CuNCN) Nanostructures and their Metamorphosis into a 3D Cu@C <sub>x</sub> N <sub>y</sub> Hybrid	Ressnig, D.; Clavel, G.; Scharnagl, N.; Antonietti, M.	Particle & Particle Systems Characterization	31	5	557	560	2014	0.537	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
97	FricRiveting of aluminum 2024-T351 and polycarbonate: Temperature evolution, microstructure and mechanical performance	Rodrigues, C.F., Blaga, L.A., Dos Santos, J.F., Canto, L.B., Hage Jr., E., Amancio-Filho, S.T.	Journal of Materials Processing Technology	214	10	2029	2039	2014	2.041	AEM
98	Wrinkling of Atomic Planes in Ultrathin Au Nanowires	Roy, A.; Kundu, S.; Mueller, K.; Rosenauer, A.; Singh, S.; Pant, P.; Gururajan, M.P.; Kumar, p.; Weissmueller, J.; Singh, a.K.; Ravishankar, N.	Nanoletters	14	8	4859	4899	2014	12.940	AEM
99	Measuring the critical resolved shear stresses in Mg alloys by instrumented nanoindentation	Sánchez-Martin, R.; Pérez-Prado, M.T.; Segurado, J.; Bohlen, J.; Gutiérrez-Urrutia, I.; Llorca, J.; Molina-Aldareguia, J. M.	Acta Materialia	71		283	292	2014	3.940	AEM
100	Materials by design: An experimental and computational investigation on the microanatomy arrangement of porous metallic glasses	Sarac, B., Klusemann, B., Xiao, T., Bargmann, S.	Acta Materialia	77		411	422	2014	3.940	AEM
101	Property optimization of porous metallic glasses via structural design	Sarac, B., Wilmers, J., Bargmann, S.	Materials Letters	134		306	310	2014	2.269	AEM
102	Ultrafine Sanding Paper: A Simple Tool for Creating Small Particles	Schäfer, H., Hess, C., Tobergte, H., Volf, A., Ichilmann, S., Eickmeier, H., Voss, B., Kashaev, N., Nordmann, J., Akram, W., Hartmann-Azanza, B., Steinhart, M.	Small					2014	7.514	AEM
103	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					2014	5.684	AEM
104	Void formation in metal matrix composites by solidification and shrinkage of an AlSi7 matrix between densely packed particles	Schoebel, M.; Requena, G.; Fiedler, G.; Tolnai, D.; Vaucher, S.; Degischer, H.P.	Composites / A	66		103	108	2014	3.012	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
105	In situ small-angle X-ray scattering study of the perovskite-type carbide precipitation behavior in a carbon-containing intermetallic TiAl alloy using synchrotron radiation	Schwaighofer, E., Staron, P., Rashkova, B., Stark, A., Schell, N., Clemens, H., Mayer, S.	Acta Materialia	77		360	369	2014	3.940	PNI / AEM
106	Hot-working behavior of an advanced intermetallic multi-phase $\gamma$ -TiAl based alloy	Schwaighofer, E.; Clemens, H.; Lindemann, J.; Stark, A.; Mayer, S.	Materials Science and Engineering A	614		297	310	2014	2.409	AEM / PNI
107	Effect of carbon addition on solidification behavior, phase evolution and creep properties of an intermetallic Beta-stabilized Gamma-TiAl based alloy	Schwaighofer, E.; Rashkova, B.; Clemens, H.; Stark, A.; Mayer, S.	Intermetallics	46		173	184	2014	2.119	AEM / PNI
108	Eutectic structures in friction spot welding joint of aluminum alloy to copper	Shen, J., Suhuddin, U.F.H., Cardillo, M.E.B., Dos Santos, J.F.	Applied Physics Letters	104		19		2014	3.515	AEM
109	Melting temperature of metal polycrystalline nanowires electrochemically deposited into the pores of anodic aluminum oxide	Shilyaeva, Y.I.; Bardushkin, V.V.; Gavrilov, S.A.; Silibin, M.V.; Yakovlev, V.B.; Borgardt, N.I.; Volkov, R.L.; Smirnov, D.I.; Zheludkevich, M.L.	Physical Chemistry Chemical Physics	16	36	19394	19401	2014	4.198	AEM
110	The ExoMet Project: EU/ESA Research on High-Performance Light-Metal Alloys and Nanocomposites	Sillekens, W.H.; Jarvis, D.J.; Vorozhtsov, A.; Bojarevics, V.; Badini, C.F.; Pavese, M.; Terzi, S.; Salvo, L.; Katsarou, L.; Dieringa, H.	Metallurgical and Materials Transactions A	45	8	3349	3361	2014	1.730	AEM
111	Investigations on microstructures, mechanical and corrosion properties of Mg-Gd-Zn alloys	Srinivasan, A.; Huang, Y.; Mendis, C. L.; Blawert, C.; Kainer, K. U.; Hort, N.	Materials Science and Engineering A	595		224	234	2014	2.409	AEM
112	The transformation mechanism of $\beta$ phase to $\omega$ -related phases in Nb-rich $\gamma$ -TiAl alloys studied by in situ high-energy X-ray diffraction	Stark, A., Oehring, M., Pyczak, F., Lippmann, T., Lottermoser, L., Schreyer, A.	Materials Science Forum	772		85	89	2014		Scopus PNI / AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
113	Topological Paths and Transient Morphologies during Formation of Mesoporous Block Copolymer Membranes	Stegelmeier, C.; Filiz, V.; Abetz, V.; Perlich, J.; Fery, A.; Ruckdeschel, P.; Rosenfeldt, S.; Foerster, S.	Macromolecules	47	16	5566	5577	2014	5.927	AEM
114	Mechanical Testing of Thin Sheet Magnesium Alloys in Biaxial Tension and Uniaxial Compression	Steglich, D., Tian, X., Bohlen, J., Kuwabara, T.	Experimental Mechanics	54	7	1247	1258	2014	1.567	AEM
115	Microstructure and mechanical properties of friction spot welds of dissimilar AA5754 Al and AZ31 Mg alloys	Suhuddin, U., Fischer, V., Kroeff, F., dos Santos, J.F.	Materials Science and Engineering A	590		384	389	2014	2.409	AEM
116	A Study on the Hot Deformation Behavior of Cast Mg-4Sn-2Ca (TX42) Alloy	Suresh, K.; Rao, K.P.; Prasad, Y.V.R.K.; Hort, N.; Kainer, K.U.	Journal of the Minerals, Metals and Materials Society	66	2	322	328	2014	0.573	AEM
117	Study of hot forging behavior of as-cast Mg-3Al-1Zn-2Ca alloy towards optimization of its hot workability	Suresh, K.; Rao, K.P.; Prasad, Y.V.R.K.; Hort, N.; Kainer, K.U.	Materials and Design	57		697	704	2014		Scopus AEM
118	In Situ High Energy X-Ray Diffraction for Investigating the 3 Phase Transformation in Hot Rolled TRIP-Aided Steels	Suwanpinij, P.; Stark, A.; Li, X.; Roemer, F.; Herrmann, K.; Lippmann, T.; Bleck, W.	Advanced Engineering Materials	16	8	1044	1051	2014	1.508	PNI / AEM
119	In vitro mechanical and corrosion properties of biodegradable Mg-Ag alloys	Tie D., Feyerabend F., Hort N., Hoeche D., Kainer K. U., Willumeit R., Mueller W.-D.	Materials and Corrosion	65	6	569	576	2014		Scopus AEM
120	Nafion (R)/ODF-silica composite membranes for medium temperature proton exchange membrane fuel cells	Treekamol, Yaowapa; Schieda, Mauricio; Robitaille, Lucie; MacKinnon, Sean M.; Mokrini, Asmae; Shi, Zhiqing; Holdcroft, Steven; Schulte, Karl; Nunes, Suzana P.	JOURNAL OF POWER SOURCES	246		950	956	2014	5.211	AEM



No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
121	Processing of Magnesium Porous Structures by Infiltration Casting for Biomedical Applications	Trinidad, J.; Marco, L.; Arrubarrena, G.; Wendt, J.; Letzig, D.; de Argandona, E.; Goodal, R.	Advanced Engineering Materials	16	2	241	247	2014	1.508	AEM / PNI
122	The development of the rotational friction welding process for the welding of $\beta$ -TiAl-casting alloy Ti-47Al-3.5(Mn+Cr+Nb)-0.8(B+Si) to Ti6Al4V [Prozessentwicklung zum Rotationsreibschweißen der $\beta$ -TiAl-Feingusslegierung Ti-47Al-3.5(Mn+Cr+Nb)-0.8(B+Si) mit Ti6Al4V]	Ventzke, V., Riekehr, S., Horstmann, M., Kashaev, N., Brokmeier, H.-G., Huber, N.	Praktische Metallographie/ Practical Metallography	51	6	401	424	2014	0.176	AEM / PNI
123	The development of the rotational friction welding process for the welding of $\beta$ -TiAl-casting alloy Ti-47Al-3.5(Mn+Cr+Nb)-0.8(B+Si) to Ti6Al4V [Prozessentwicklung zum Rotationsreibschweißen der $\beta$ -TiAl-Feingusslegierung Ti-47Al-3.5(Mn+Cr+Nb)-0.8(B+Si) mit Ti6Al4V]	Ventzke, V., Riekehr, S., Horstmann, M., Kashaev, N., Brokmeier, H.-G., Huber, N.	Praktische Metallographie/ Practical Metallography	51	5	321	352	2014	0.176	AEM / PNI
124	The influence of the recrystallization mechanisms and grain growth on the texture of a hot rolled AZ31 sheet during subsequent isochronal annealing	Victoria-Hernandez, J.; Yi, S.; Bohlen, J.; Kurz, G.; Letzig, D.	Journal of Alloys and Compounds	616		189	197	2014	2.726	AEM
125	Experimental and numerical analysis of hot tearing susceptibility for Mg–Y alloys	Wang, Z.; Huang, Y.; Srinivasan, A.; Liu, Z.; Beckmann, F.; Kainer, K.U.; Hort, N.	Journal of Materials Science	49		353	362	2014	2.305	AEM / PNI
126	Optimization of cell adhesion on Mg based implant materials by pre-incubation under cell culture conditions	Willumeit R., Möhring A., Feyerabend F.	International Journal of Molecular Science	15	5	7639	7650	2014		Scopus AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
127	Simulation of non-classical diffusion in polymers	Wilmers, J., Bargmann, S.	Heat and Mass Transfer/Waerm e- und Stoffuebertragung	50	11	1543	1552	2014	0.929	AEM
128	Magnesium powder injection moulding for biomedical application	Wolff, M.; Schaper, J.G.; Dahms, M.; Ebel, T.; Kainer, K.U.; Klassen, T.	Powder Metallurgy	57	5	331	340	2014	0.601	AEM
129	Effects of extracellular magnesium on the differentiation and function of human osteoclasts	Wu, L., Luthringer, B.J.C., Feyerabend, F., Schilling, A.F., Willumeit, R.	Acta Biomaterialia	10	6	2843	2854	2014	5.684	AEM / PNI
130	Insights into the Interactions between Surfactin, Betaines and PAM: Surface Tension, Small-Angle Neutron Scattering and Small-Angle X-ray Scattering Study	Xiao, J.; Liu, F.; Garamus, V.M.; Almasy, L.; Handge, U.A.; Willumeit, R.; Mu, B.; Zou, A.	Langmuir	30	12	3363	3372	2014	4.384	PNI / AEM
131	Switchable imbibition in nanoporous gold	Xue, Y.; Markmann, J.; Duan, H.; Weissmüller, J.; Huber, P.	Nature Communications	5		4237		2014	10.742	AEM
132	A transmission electron microscopy and three-dimensional atom probe study of the oxygen-induced fine microstructural features in as-sintered Ti-6Al-4V and their impacts on ductility	Yan, M.; Dargusch, M.S.; Ebel, T.; Qian, M.	Acta Materialia	68		196	206	2014	3.940	AEM
133	Microstructural evolution and delayed hydride cracking of FSW-AZ31 magnesium alloy during SSRT	Zeng, R.-C.; Dietzel, W.; Zettler, R.; Gan, W.M.; Sun, X.X.	Transactions of Nonferrous Metals Society of China	24	10	3060	3069	2014	1.001	AEM / PNI
134	Titanium carbide precipitation in Ti-22Nb alloy fabricated by metal injection moulding	Zhao D., Chang K., Ebel T., Qian M., Willumeit R., Yan M., Pyczak F.	Powder Metallurgy	57	1	2	4	2014	0.601	AEM

No.	Title	Authors	Source	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
135	Mixture of Nonionic/Ionic Surfactants for the Formulation of Nanostructured Lipid Carriers: Effects on Physical Properties	Zhao, S.; Yang, X.; Haramus, V.M.; Handge, U.A.; Luthringer, B.; Zhao, L.; Salamon, G.; Willumeit, R.; Zou, A.; Fan, S.	Langmuir	30	23	6920	6928	2014	4.384	PNI / AEM
136	Crack mitigation during dealloying of Au <sub>25</sub> Cu <sub>75</sub>	Zhong, Y., Markmann, J., Jin, H.-J., Ivanisenko, Y., Kurmanaeva, L., Weissmüller, J.	Advanced Engineering Materials	16	4	389	398	2014	1.508	AEM
137	Biomimetic Transferable Surface for a Real Time Control over Wettability and Photoerasable Writing with Water Drop Lens	Zillohu, A.U.; Abdelaziz, R.; Homaeigohar, S.; Krasnov, I.; Mueller, M.; Strunskus, T.; Elbahri, M.	Scientific Reports	4		7407		2014	5.078	PNI / AEM
138	Thermo-Plasmonics for Localized Graphitization and Welding of Polymeric Nanofibers	Zillohu, A.U.; Alissawi, N.; Abdelaziz, R.; Elbahri, M.	Materials	7	1	323	332	2014	1.879	AEM / PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
1	Texture gradient studies of a Cu-tube by the robot at STRESS-SPEC	Al-hamdany, N.; Brokmeier, H. -G.; Randau, C.; Gan, W. M.; Voeller, M.	CRYSTAL RESEARCH AND TECHNOLOGY	49	11	888	898	2014	1.164	PNI
2	Erratum: Estimation of dislocation density in cold-rolled commercially pure titanium by using synchrotron diffraction (Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science DOI: 10.1007/s11663-011-9500-y)	Alkhazraji, H., Salih, M.Z., Zhong, Z., Mhaede, M., Brokmeier, H.-G., Wagner, L., Schell, N.	Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science	45	4	1579		2014	1.232	PNI
3	Estimation of dislocation density in cold-rolled commercially pure titanium by using synchrotron diffraction	Alkhazraji, H., Salih, M.Z., Zhong, Z., Mhaede, M., Brokmeier, H.-G., Wagner, L., Schell, N.	Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science	45	4	1557	1564	2014	1.232	PNI
4	Intrinsic instability of the helix spin structure in MnGe and order-disorder phase transition	Altyynbaev, E.; S.-A. Siegfried, V. Dyadkin, E. Moskvina, D. Menzel, A. Heinemann, C. Dewhurst, A. Tsvyashchenko, and S. Grigoriev	PHYSICAL REVIEW B	90	17	174420		2014	3.664	PNI
5	X-ray phase-contrast imaging of the breast - Advances towards clinical implementation	Auweter, S.D., Herzen, J., Willner, M., Grandl, S., Scherer, K., Bamberg, F., Reiser, M.F., Pfeiffer, F., Hellerhoff, K.	British Journal of Radiology	87	1034	20130606		2014	1.533	PNI
6	Nanostructures by self-assembly of polyglycidol-derivatized lipids	Bakardzhiev, P.; Rangelov, S.; Trzebicka, B.; Momekova, D.; Lalev, G.; Garamus, V. M.	RSC Advances	4		37208	37219	2014	3.708	PNI
7	Mechanical and functional behavior of a Ni-rich Ni50.3Ti 29.7Hf20 high temperature shape memory alloy	Benafan, O., Garg, A., Noebe, R.D., Bigelow, G.S., Padula II, S.A., Gaydos, D.J., Schell, N., Mabe, J.H., Vaidyanathan, R.	Intermetallics	50		94	107	2014	2.119	PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
8	Element-specific depth profile of magnetism and stoichiometry at the La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> /BiFeO <sub>3</sub> interface	Bertinshaw, J., Brück, S., Lott, D., Fritzsche, H., Khaydukov, Y., Soltwedel, O., Keller, T., Goering, E., Audehm, P., Cortie, D.L., Hutchison, W.D., Ramasse, Q.M., Arredondo, M., Maran, R., Nagarajan, V., Klose, F., Ulrich, C.	Physical Review B - Condensed Matter and Materials Physics	90	4	41113		2014	3.664	PNI
9	Head morphology of Tricholepidion gertschi indicates monophyletic Zygentoma	Blanke, Alexander and Koch, Markus and Wipfler, Benjamin and Wilde, Fabian and Misof, Bernhard	Frontiers in Zoology	11	1	16		2014	2,3	PNI
10	Position-dependent shear-induced austenite-martensite transformation in double-notched TRIP and dual-phase steel samples	Blondé, R., Jimenez-Melero, E., Ponnusami, S.A., Zhao, L., Schell, N., Brück, E., Van Der Zwaag, S., Van Dijk, N.	Journal of Applied Crystallography	47	3	956	964	2014	3.950	PNI
11	The mechanical stability of retained austenite in low-alloyed TRIP steel under shear loading	Blondé, R., Jimenez-Melero, E., Zhao, L., Schell, N., Brück, E., van der Zwaag, S., van Dijk, N.H.	Materials Science and Engineering A	594		125	134	2014	2.409	PNI
12	Assessing the Power of Electron Back Scattering Diffraction Characterization of Deformed F-138 Steel from the View Point of Crystal Diffraction	Bolmaro, R. E.; M. C. Avalos, N. S. De Vincentis, A. M. Kliauga, H.-G. Brokmeier	Praktische Metallographie/Practical Metallography	51	9	633	655	2014	2.119	PNI
13	High-Pressure Torsion of Ti: Synchrotron characterization of phase volume fraction and domain sizes	Bolmaro, R. E.; V. L. Sordi, M. Ferrante, H.-G. Brokmeier, M. Kawasaki, T. G. Langdon	IOP Conference Series: Materials Science and Engineering	63	1	12147		2014		Scopus PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
14	Anisotropic and heterogeneous development of microstructures. combining laboratory/synchrotron X-rays and EBSD on a few SPD metallic systems	Bolmaro, R.E., De Vincentis, N.S., Benatti, E., Kliauga, A.M., Avalos, M.C., Schell, N., Brokmeier, H.-G.	IOP Conference Series: Materials Science and Engineering	63	1	12148		2014	Scopus PNI	
15	Assessing the grain structure of highly X-ray absorbing metallic alloys	Bormann, T., Beckmann, F., Schinhammer, M., Deyhle, H., De Wild, M., Müller, B.	International Journal of Materials Research	105	7	692	701	2014	0.675 PNI	
16	Combining micro computed tomography and three-dimensional registration to evaluate local strains in shape memory scaffolds	Bormann, T., Schulz, G., Deyhle, H., Beckmann, F., De Wild, M., Küffer, J., Münch, C., Hoffmann, W., Müller, B.	Acta Biomaterialia	10	2	1024	1034	2014	5.684 PNI	
17	XRD study of NiTi endodontic files using synchrotron radiation	Braz Fernandes, F.M., Oliveira, J.P., Machado, A., Schell, N.	Journal of Materials Engineering and Performance	23	7	2477	2481	2014	0.981 PNI	
18	Surface microstructure modification in square extruded Al-Nb powder composites by shot peening	Brokmeier, H.-G., Avalos, M.C., Bolmaro, R.E., Maawad, E.	IOP Conference Series: Materials Science and Engineering	63	1	12015		2014	Scopus PNI	
19	In situ characterization of NiTi/Ti6Al4V joints during reaction-assisted diffusion bonding using Ni/Ti multilayers	Cavaleiro, A.J., Ramos, A.S., Braz Fernandes, F.M., Schell, N., Vieira, M.T.	Journal of Materials Engineering and Performance	23	5	1625	1629	2014	0.981 PNI	
20	Preparation and characterization of a nanostructured lipid carrier for a poorly soluble drug	Chen, Y., Yang, X., Zhao, L., Almásy, L., Garamus, V.M., Willumeit, R., Zou, A.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	455	1	36	43	2014	2.354 PNI / AEM	
21	3D $\mu$ CT and SEM Analysis of Resolidified Tips of Cored Wires Used in Twin-Wire Arc Spraying	Dalstra, M., Cattaneo, P.M., Laursen, M.G., Beckmann, F., Melsen, B.	Journal of Thermal Spray Technology					2014	Scopus PNI	

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
22	Deformation analysis on F138 austenitic stainless steel: ECAE and rolling	de Vincentis, N. S.; M. C. Avalos, A. M. Kliauga, V. L. Sordi, N. Schell, H.-G. Brokmeier, R. E. Bolmaro	IOP Conference Series: Materials Science and Engineering	63	1	12057		2014	Scopus PNI	
23	Nanostructure of carious tooth enamel lesion	Deyhle, H., White, S.N., Bunk, O., Beckmann, F., Müller, B.	Acta Biomaterialia	10	1	355	364	2014	5.684	PNI
24	The headgroup (A)symmetry strongly determines the aggregation behavior of single-chain phenylene-modified bolalipids and their miscibility with classical phospholipids	Drescher, S., Lechner, B.-D., Garamus, V.M., Almásy, L., Meister, A., Blume, A.	Langmuir	30	31	9273	9284	2014	4.384	PNI
25	Phenylene bolaamphiphiles: Influence of the substitution pattern on the aggregation behavior and the miscibility with classical phospholipids	Drescher, S., Meister, A., Garamus, V.M., Hause, G., Garvey, C.J., Dobner, B., Blume, A.	European Journal of Lipid Science and Technology	116	9	1205	1216	2014	Scopus PNI	
26	Morphology and the Magnetic and Conducting Properties of Heterogeneous Layered Magnetic Structures [(Co <sub>45</sub> Fe <sub>45</sub> Zr <sub>10</sub> )( <sub>35</sub> )(Al <sub>2</sub> O <sub>3</sub> ) <sub>(65)</sub> /a-Si:H] <sub>(36)</sub>	Dyadkina, E. A.; Vorobiev, A. A.; Ukleev, V. A.; Lott, D.; Sitnikov, A. V.; Kalinin, Yu. E.; Gerashchenko, O. V.; Grigoriev, S. V.	JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS	118	3	410	416	2014	0.931	PNI
27	In situ determination of internal stresses in mixed ceramic cutting tools during friction testing using synchrotron radiation	Eichenseer, C., Hartig, C., Schell, N., Hintze, W.	Production Engineering	8	4	513	519	2014	Scopus PNI	

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
28	Packing effects of N-ras binding to a DOPC membrane - A neutron reflectivity and TIRF spectroscopy high-pressure study	Erlkamp, M., Moulin, J.-F., Winter, R., Czeslik, C.	Zeitschrift für Physikalische Chemie	228	10 - 12	969	986	2014	1.178	PNI
29	Cone-beam differential phase-contrast laminography with x-ray tube source	Fu, J., Biernath, T., Willner, M., Amberger, M., Meiser, J., Kunka, D., Mohr, J., Herzen, J., Bech, M., Pfeiffer, F.	EPL	106	6	68002		2014		Scopus PNI
30	Helical differential X-ray phase-contrast computed tomography	Fu, J., Willner, M., Chen, L., Tan, R., Achterhold, K., Bech, M., Herzen, J., Kunka, D., Mohr, J., Pfeiffer, F.	Physica Medica	30	3	374	379	2014		Scopus PNI
31	Microstructures and mechanical properties of pure Mg processed by rotary swaging	Gan, W.M., Huang, Y.D., Wang, R., Wang, G.F., Srinivasan, A., Brokmeier, H., G., Schell, N., Kainer, K.U., Hort, N.	Materials and Design	63		83	88	2014	3.171	PNI / AEM
32	Residual stresses near the hot sprues of as-cast Mg-Zn alloys investigated by STRESS-SPEC neutron diffractometer	Gan, W.M., Huang, Y.D., Wang, Z., Hort, N., Hofmann, M.	Materials Science Forum	768-769		428	432	2014		Scopus PNI / AEM
33	Influence of rare-earth addition on the long-period stacking ordered phase in cast Mg-Y-Zn alloys	Garcés, G., Requena, G., Tolnai, D., Pérez, P., Adeva, P., Stark, A., Schell, N.	Journal of Materials Science	49	7	2714	2722	2014	2.305	AEM / PNI



No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
34	Towards simultaneous measurements of electronic and structural properties in ultra-fast X-ray free electron laser absorption spectroscopy experiments	Gaudin, J., Fourment, C., Cho, B.I., Engelhorn, K., Galtier, E., Harmand, M., Leguay, P.M., Lee, H.J., Nagler, B., Nakatsutsumi, M., Ozkan, C., Störmer, M., Toleikis, S., Tschentscher, T., Heimann, P.A., Dorchies, F.	Scientific Reports	4		4724		2014	5.078 PNI	
35	Investigations of early stage precipitation in a tungsten-rich nickel-base superalloy using SAXS and SANS	Gilles, R., Mukherji, D., Eckerlebe, H., Karge, L., Staron, P., Strunz, P., Lippmann, T.	Journal of Alloys and Compounds	612		90	97	2014	2.726 PNI	
36	Nano-scale morphology of melanosomes revealed by small-angle X-ray scattering	Gorniak, T., Haraszti, T., Garamus, V.M., Buck, A.R., Senkbeil, T., Priebe, M., Hedberg-Buenz, A., Koehn, D., Salditt, T., Grunze, M., Anderson, M.G., Rosenhahn, A.	PLoS ONE	9	3	e90884-1	e90884-8	2014	3.534 PNI	
37	Visualizing typical features of breast fibroadenomas using phase-contrast CT: An ex-vivo study	Grandl, S., Willner, M., Herzen, J., Sztrókay-Gaul, A., Mayr, D., Auweter, S.D., Hipp, A., Birnbacher, L., Marschner, M., Chabior, M., Reiser, M., Pfeiffer, F., Bamberg, F., Hellerhoff, K.	PLoS ONE	9	5	e97101		2014	3.534 PNI	

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
38	Using synchrotron radiation-based micro-computer tomography (SR $\mu$ -CT) for the measurement of fibre orientations in cellulose fibre-reinforced polylactide (PLA) composites	Graupner, Nina; Beckmann, Felix; Wilde, Fabian; Muessig, Joerg	JOURNAL OF MATERIALS SCIENCE	49	1	450	460	2014	2.305	PNI
39	P05 Imaging Beam line at Petra III - First Results	Greving, Imke; Wilde, Fabian; Ogurreck, Malte; Herzen, Julia; Hammel, Joerg U.; Hipp, Alexander; Friedrich, Frank; Lottermoser, Lars; Dose, Thomas; Burmester, Hilmar; Mueller, Martin; Beckmann, Felix	DEVELOPMENTS IN X-RAY TOMOGRAPHY IX, Proceedings of SPIE	9212				2014		- PNI
40	Flip of spin helix chirality and ferromagnetic state in Fe <sub>1-x</sub> CoxGe compounds	Grigoriev, S. V.; S.-A. Siegfried, E. V. Altynbayev, N. M. Potapova, V. Dyadkin, E. V. Moskvina, D. Menzel, A. Heinemann, R. A. Sadykov, L. N. Fomicheva, and A. V. Tsvyashchenko	Physical Review B	90		174414		2014	3.664	PNI
41	Study of spin-wave dynamics in Fe <sub>65</sub> Ni <sub>35</sub> ferromagnetic via small-angle polarized-neutron scattering	Grigoriev, S.V., Altynbayev, E.V., Eckerlebe, H., Okorokov, A.I.	Journal of Surface Investigation	8	5	1027	1034	2014		Scopus PNI
42	Effect of double nuclear scattering on nuclear-magnetic interference in experiment with small-angle diffraction of polarized neutrons	Grigoriev, S.V., Chumakov, A.P., Grigoryeva, N.A., Eckerlebe, H., Roslyakov, I.V., Napolskii, K.S., Eliseev, A.A.	Journal of Surface Investigation	8	5	1010	1019	2014		Scopus PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
43	Structure of polymeric nanoparticles in surfactant-stabilized aqueous dispersions of high-molar-mass hydrophobic graft copolymers	Hajduová, J., Procházka, K., Raus, V., Šlouf, M., Krzyžánek, V., Garamus, V.M., Štěpánek, M.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	456	1	10	17	2014	2.354	PNI / AEM
44	Hydrodynamic alignment and assembly of nanofibrils resulting in strong cellulose filaments	Håkansson, K.M.O., Fall, A.B., Lundell, F., Yu, S., Krywka, C., Roth, S.V., Santoro, G., Kvick, M., Prahl Wittberg, L., Wågberg, L., Söderberg, L.D.	Nature Communications	5		4018		2014	10.742	PNI
45	A New Flow-Regulating Cell Type in the Demosponge <i>Tethya wilhelma</i> - Functional Cellular Anatomy of a Leuconoid Canal System	Hammel, Joerg U.; Nickel, Michael	PLOS ONE	9	11	e113153		2014	3.534	PNI
46	Imaging liver lesions using grating-based phase-contrast computed tomography with bi-lateral filter post-processing	Herzen, J., Willner, M.S., Fingerle, A.A., Noël, P.B., Köhler, T., Drecoll, E., Rummeny, E.J., Pfeiffer, F.	PLoS ONE	9	1	e83369		2014	3.534	PNI
47	Phase-contrast CT: Qualitative and quantitative evaluation of atherosclerotic carotid artery plaque	Hetterich, H., Willner, M., Fill, S., Herzen, J., Bamberg, F., Hipp, A., Schüller, U., Adam-Neumair, S., Wirth, S., Reiser, M., Pfeiffer, F., Saam, T.	Radiology	271	3	870	878	2014	3534	PNI
48	Energy-resolved visibility analysis of grating interferometers operated at polychromatic X-ray sources	Hipp, A., Willner, M., Herzen, J., Auweter, S., Chabior, M., Meiser, J., Achterhold, K., Mohr, J., Pfeiffer, F.	Optics Express	22	25	30394	30409	2014	3.525	PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
49	Grating-based X-ray phase-contrast imaging at PETRA III	Hipp, A.; Beckmann, F.; Lytaev, P.; Greving, I.; Lottermoser, L.; Dose, T.; Kirchhof, R.; Burmester, H.; Schreyer, A.; Herzen, J.	DEVELOPMENTS IN X-RAY TOMOGRAPHY IX, Proceedings of SPIE	9212		921206		2014		- PNI
50	Non-sexual abdominal appendages in adult insects challenge a 300 million year old bauplan	Hoch, H., Wessel, A., Asche, M., Baum, D., Beckmann, F., Bräunig, P., Ehrig, K., Mühlethaler, R., Riesemeier, H., Staude, A., Stelbrink, B., Wachmann, E., Weintraub, P., Wipfler, B., Wolff, C., Zilch, M.	Current Biology	24	1	R16	R17	2014	9.916	PNI
51	Ageing effects on exhaust gas catalysts: Microscopic changes captured by x-ray tomography	Hofmann, G., Rochet, A., Baier, S., Casapu, M., Ritter, S., Wilde, F., Ogurreck, M., Beckmann, F., Grunwaldt, J.-D.	Journal of Physics: Conference Series	499	1	012017		2014		Scopus PNI
52	Complementary X-ray tomography techniques for histology-validated 3D imaging of soft and hard tissues using plaque-containing blood vessels as examples	Holme, M.N., Schulz, G., Deyhle, H., Weitkamp, T., Beckmann, F., Lobrinus, J.A., Rikhtegar, F., Kurtcuoglu, V., Zanette, I., Saxer, T., Müller, B.	Nature Protocols	9	6	1401	1415	2014	7.782	PNI
53	Analysis of VHCF damage in a duplex stainless steel using hard X-ray diffraction techniques	Istomin, K., Dönges, B., Schell, N., Christ, H.-J., Pietsch, U.	International Journal of Fatigue	66		177	182	2014	1.694	PNI
54	Complete inheritance of fractal properties during first-order phase transition	Ivanov, V.K., Kopitsa, G.P., Ivanova, O.S., Baranchikov, A.Ye., Pranzas, K., Grigoriev, S.V.	Journal of Physics and Chemistry of Solids	75	2	296	299	2014	1.594	PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
55	Structural analysis of calcium reactive hydride composite for solid state hydrogen storage	Karimi, F., Pranzas, P.K., Hoell, A., Vainio, U., Welter, E., Raghuwanshi, V.S., Pistidda, C., Dornheim, M., Klassen, T., Schreyer, A.	Journal of Applied Crystallography	47	1	67	75	2014	3.950	AEM / PNI
56	Integrated Control System Environment for High-Throughput Tomography	Khokhriakov, Igor; Lottermoser, Lars; Gehrke, Rainer; Kracht, Thorsten; Wintersberger, Eugen; Kopmann, Andreas; Vogelgesang, Matthias; Beckmann, Felix	DEVELOPMENTS IN X-RAY TOMOGRAPHY IX, Proceedings of SPIE	9212		921217		2014		- PNI
57	Anatomy, function, and evolution of jaw and hyobranchial muscles in cryptobranchoid salamander larvae	Kleinteich, T., Herzen, J., Beckmann, F., Matsui, M., Haas, A.	Journal of Morphology	275	2	230	246	2014	1.553	PNI
58	Conjugated polyelectrolyte (CPE) Poly{3-[6-(N-methylimidazolium)hexyl]-2,5-thiophene} complexed with DNA: Relation between colloidal level solution structure and chromic effects	Knaapila, M., Costa, T., Garamus, V.M., Kraft, M., Drechsler, M., Scherf, U., Burrows, H.D.	Macromolecules	47	12	4017	4027	2014	5.927	PNI
59	A tunable wedge-shaped absorber for hard X-ray synchrotron applications	Krywka, C., Brix, M., Müller, M.	Journal of Synchrotron Radiation	21	4	811	814	2014	3.022	PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
60	Determination of Silkworm Silk Fibroin Compressibility Using High Hydrostatic Pressure with in Situ X-ray Microdiffraction	Krywka, Christina; Krasnov, Igor; Figuli, Roxana; Burghammer, Manfred; Mueller, Martin	MACROMOLECULES	47	20	7187	7193	2014	5.927	PNI
61	Characterization and modeling of the influence of artificial aging on the microstructural evolution of age-hardenable AlSi10Mg(Cu) aluminum alloys	Larráyoiz Izcara, X., Guirao Blank, A., Pyczak, F., Staron, P., Schumann, S., Huber, N.	Materials Science and Engineering A	610		46	53	2014	2.409	AEM / PNI
62	In-situ neutron diffraction study of martensitic variant redistribution in polycrystalline Ni-Mn-Ga alloy under cyclic thermo-mechanical treatment	Li, Z., Zhang, Y., Esling, C., Gan, W., Zou, N., Zhao, X., Zuo, L.	Applied Physics Letters	105	2	021907		2014	3.515	PNI
63	The cooling gradient and microstructure control in laser beam welded TiAl alloy assisted by temperature field simulation	Liu, J., Staron, P., Schnubel, D., Schell, N., Huber, N., Kashaev, N.	29th Congress of the International Council of the Aeronautical Sciences, ICAS 2014					2014		- AEM / PNI
64	Effect of post-weld heat treatment on microstructure and mechanical properties of laser beam welded TiAl-based alloy	Liu, J., Ventzke, V., Staron, P., Schell, N., Kashaev, N., Huber, N.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	45	1	16	28	2014	1.730	PNI
65	Phosphatidylethanolamine biomimetic coating increases mesenchymal stem cell osteoblastogenesis	Luthringer, B.J.C., Katha, U.M.R., Willumeit, R.	Journal of Materials Science: Materials in Medicine	25	11	2561	2571	2014		Scopus AEM / PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
66	Characterization of the CCD and CMOS cameras for grating-based phase-contrast tomography	Lytaev, Pavel; Hipp, Alexander; Lottermoser, Lars; Herzen, Julia; Greying, Imke; Khokhriakov, Igor; Meyer-Loges, Stephan; Plewka, Joern; Burmester, Joerg; Caselle, Michele; Vogelgesang, Matthias; Chilingaryan, Suren; Kopmann, Andreas; Balzer, Matthias; Schreyer, Andreas; Beckmann, Felix	DEVELOPMENTS IN X-RAY TOMOGRAPHY IX, Proceedings of SPIE	9212		921218		2014		- PNI
67	Determination of polycrystal diffraction elastic constants of Ti-2.5Cu by using in situ tensile loading and synchrotron radiation	Maawad, E., Brokmeier, H.-G., Zhong, Z.Y., Al-Hamdany, N., Salih, M., Wagner, L., Schell, N.	Materials Science and Engineering A	594		62	67	2014	2.409	PNI
68	Non-destructive residual stress evaluation in mechanically surface treated Ti-2.5Cu by diffraction techniques	Maawad, E.; Brokmeier, H. -G.; Wagner, L.; Hofmann, M.; Gan, W. M.; Genzel, Ch.; Klaus, M.	NDT & E INTERNATIONAL	61		67	70	2014	1.717	PNI
69	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					2014		Scopus PNI
70	X-ray full field microscopy at 30 keV	Marschall, F., Last, A., Simon, M., Kluge, M., Nazmov, V., Vogt, H., Ogurreck, M., Greving, I., Mohr, J.	Journal of Physics: Conference Series	499	1	12007		2014		Scopus PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
71	Increasing the field of view of x-ray phase contrast imaging using stitched gratings on low absorbent carriers	Meiser, J., Amberger, M., Willner, M., Kunka, D., Meyer, P., Koch, F., Hipp, A., Walter, M., Pfeiffer, F., Mohr, J.	Progress in Biomedical Optics and Imaging - Proceedings of SPIE	9033				2014		- PNI
72	Structural characterization of magnetoferritin	Melníková, L., Mitróová, Z., Timko, M., Kováč, J., Avdeev, M.V., Petrenko, V.I., Garamus, V.M., Almásy, L., Kopčanský, P.	Mendelevov Communications	24	2	80	81	2014	1.154	PNI
73	Effect of iron oxide loading on magnetoferritin structure in solution as revealed by SAXS and SANS	Melníková, L.; V. I. Petrenko, M. V. Avdeev, V. M. Garamus, L. Almásy, O. I. Ivankov, L. A. Bulavin, Z. Mitróová, P. Kocpcanský	Colloids and Surfaces B: Biointerfaces	123		82	88	2014	4.287	PNI
74	New techniques for high pressure falling sphere viscosimetry in DIA-type large volume presses	Mueller, Hans J.; Beckmann, Felix; Dobson, David P.; Hunt, Simon A.; Lathe, Christian; Stroncik, Nicole	HIGH PRESSURE RESEARCH	34	3	345	354	2014	0.926	PNI
75	Neutron and synchrotron probes in the development of Co-Re-based alloys for next generation gas turbines with an emphasis on the influence of boron additives	Mukherji, D., Gilles, R., Karge, L., Strunz, P., Beran, P., Eckerlebe, H., Stark, A., Szentmiklosi, L., MácSik, Z., Schumacher, G., Zizak, I., Hofmann, M., Hoelzel, M., Rösler, J.	Journal of Applied Crystallography	47	4	1417	1430	2014	3.950	PNI
76	Morphology determination of defect-rich diblock copolymer films with time-of-flight grazing-incidence small-angle neutron scattering	Müller-Buschbaum, P., Kaune, G., Haese-Seiller, M., Moulin, J.-F.	Journal of Applied Crystallography	47	4	1228	1237	2014	3.950	PNI



No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
77	Design of a horizontal neutron reflectometer for the European Spallation Source	Nekrassov, D., Trapp, M., Lieutenant, K., Moulin, J.-F., Strobl, M., Steitz, R.	Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment	755		85	96	2014	1.316 PNI	
78	In situ X-ray scattering study of the cubic to hexagonal transformation of A1N in Ti(1-x)Al(x)N	Norrby, N.; Rogstrom, L.; Johansson-Joesaar, M. P.; Schell, N.; Oden, M.	ACTA MATERIALIA	73		205	214	2014	3.940 PNI	
79	Neutron activation cross-sections for Ytterbium isotopes at (14.6 +/- 0.3) MeV	Pandey, Bhawna; Agrawal, H. M.; Pepelnik, R.	APPLIED RADIATION AND ISOTOPES	85		128	132	2014	1.056 PNI	
80	Localization of soil organic matter in soil aggregates using synchrotron-based X-ray microtomography	Peth, Stephan; Chenu, Claire; Leblond, Nelly; Mordhorst, Anneka; Garnier, Patricia; Nunan, Naoise; Pot, Valerie; Ogurreck, Malte; Beckmann, Felix	SOIL BIOLOGY & BIOCHEMISTRY	78		189	194	2014	4.410 PNI	
81	Structure and interaction of poly(ethylene glycol) in aqueous solutions. Small-angle neutron scattering data	Petrenko, V., Bulavin, L., Avdeev, M., Garamus, V., Koneracka, M., Kopcansky, P.	Macromolecular Symposia	335	1	20	23	2014	Scopus PNI	
82	Structure of amyloid aggregates of lysozyme from small-angle X-ray scattering data	Petrenko, V.I., Avdeev, M.V., Garamus, V.M., Kubovcikova, M., Gažová, Z., Šipošová, K., Bulavin, L.A., Almásy, L., Aksenov, V.L., Kopcansky, P.	Physics of the Solid State	56	1	129	133	2014	0.782 PNI	

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
83	Effect of the Partial Replacement of CaH <sub>2</sub> with CaF <sub>2</sub> in the Mixed System CaH <sub>2</sub> + MgB <sub>2</sub>	Pistidda, C.; Karimi, F.; Garroni, S.; Rzeszutek, A.; Minella, C. Bonatto; Milanese, C.; Le, T. T.; Rude, L. H.; Skibsted, J.; Jensen, T. R.; Horstmann, C.; Gundlach, C.; Tolkiehn, M.; Pranzas, P. K.; Schreyer, A.; Klassen, T.; Dornheim, M.	JOURNAL OF PHYSICAL CHEMISTRY C	118	49	28409	28417	2014	4.835	AEM / PNI
84	Effect of NaH/MgB <sub>2</sub> ratio on the hydrogen absorption kinetics of the system NaH + MgB <sub>2</sub>	Pistidda, Claudio; Pottmaier, Daphiny; Karimi, Fahim; Garroni, Sebastiano; Rzeszutek, Agnieszka; Tolkiehn, Martin; Fichtner, Maximilian; Lohstroh, Wiebke; Baricco, Marcello; Klassen, Thomas; Dornheim, Martin	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	39	10	5030	5036	2014	2.930	AEM / PNI
85	Hydrogen storage in Mg-LiBH <sub>4</sub> composites catalyzed by FeF <sub>3</sub>	Puszkiew, Julian; Gennari, Fabiana C.; Arneodo Laroche, Pierre; Troiani, Horacio E.; Karimi, Fahim; Pistidda, Claudio; Goslawit-Utke, Rapee; Jepsen, Julian; Jensen, Torben R.; Gundlach, Carsten; Tolkiehn, Martin; von Colbe, Jose Bellosta; Klassen, Thomas; Dornheim, Martin	JOURNAL OF POWER SOURCES	267		799	811	2014	5.211	AEM / PNI
86	Effect of Local Laser Surfacing on the Fatigue Crack Propagation Rate of Al-alloy 6056 and its laser Beam Weld	Qi, Fangjuan; Staron, Peter; Ventzke, Volker	Procedia Materials Science	3		1834	1840	2014		- AEM / PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
87	Hardening mechanism of commercially pure Mg processed by high pressure torsion at room temperature	Qiao, Xiao Guang; Zhao, Ya Wei; Gan, Wei Min; Chen, Ying; Zheng, Ming Yi; Wu, Kun; Gao, Nong; Starink, Marco J.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	619		95	106	2014	2.409	PNI
88	Comparison of synchrotron radiation diffraction and micromagnetic stress analysis in straightened steel pipes	Raatz, S., Kaack, M., Staron, P., Schell, N., Schreyer, A., Klaus, M., Genzel, C., Theis-Bröhl, K.	Materials Science Forum	777		225	230	2014		Scopus PNI
89	Tailoring the morphology of self-assembled block copolymer hollow fiber membranes	Radjabian, M., Koll, J., Buhr, K., Vainio, U., Abetz, C., Handge, U.A., Abetz, V.	Polymer (United Kingdom)	55	13	2986	2997	2014	3.766	AEM / PNI
90	A combinatorial X-ray sub-micron diffraction study of microstructure, residual stress and phase stability in TiAlN coatings	Riedl, A.; Daniel, R.; Todt, J.; Stefanelli, M.; Holec, D.; Sartory, B.; Krywka, C.; Mueller, M.; Mitterer, C.; Keckes, J.	SURFACE & COATINGS TECHNOLOGY	257		108	113	2014	2.199	PNI
91	Cell Motility on PolyethyleneGlycol Block CopolymersCorrelates to Fibronectin Surface Adsorption	Roettgermann, P J F; S. Hertrich, I. Berts,M. Albert, F. J. Segerer, J.-F. Moulin,N. Nickel, J. O. Raedler	Macromol. Biosci.	14	12	1755	1763	2014	3.650	PNI
92	The Ba 4d-4f giant dipole resonance in complex Ba/Si compounds	Sahle, C.J.; Sternemann, C.; Sternemann, H.; Tse, J.S.; Gordon, R.A.; Desgreniers, S.; Maekawa, S.; Yamanaka, S.; Lehmkuehler, F.; Wieland, D.C.F.; Mende, K.; Huotari, S.; Tolan, M.	Journal of Physics B	47	4	045102		2014		Scopus PNI
93	Magnetic properties and crystallographic textures of Fe 2.6% Si after 90% cold rolling plus different annealing	Salih, M. Z.; Weidenfeller, B.; Al-hamdany, N.; Brokmeier, H. -G.; Gan, W. M.	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	354		105	111	2014	2.002	PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
94	The effect of intermediate annealing between cold rolled steps on crystallographic texture and magnetic properties of Fe-2.6% Si	Salih, M.Z., Weidenfeller, B., Al-Hamdany, N., Brokmeier, H.-G., Gan, W.M.	Journal of Magnetism and Magnetic Materials	362		141	149	2014	2.002 PNI	
95	Microfocus X-ray scattering and micro-Raman spectroscopy: Transcrystallinity in isotactic polypropylene	Santoro, G., Yu, S., Krywka, C., Roth, S.V., Ellis, G.	Physica Status Solidi - Rapid Research Letters	8	8	724	727	2014	Scopus PNI	
96	The high energy materials science beamline (HEMS) at PETRA III	Schell, N., King, A., Beckmann, F., Fischer, T., Müller, M., Schreyer, A.	Materials Science Forum	772		57	61	2014	Scopus PNI	
97	Bi-directional x-ray phase-contrast mammography	Scherer, K., Birnbacher, L., Chabior, M., Herzen, J., Mayr, D., Grandl, S., Sztrókay-Gaul, A., Hellerhoff, K., Bamberg, F., Pfeiffer, F.	PLoS ONE	9	5	e93502		2014	3.534 PNI	
98	X-ray phase-contrast tomosynthesis for improved breast tissue discrimination	Schleede, S., Bech, M., Grandl, S., Sztrókay, A., Herzen, J., Mayr, D., Stockmar, M., Potdevin, G., Zanette, I., Rack, A., Weitkamp, T., Pfeiffer, F.	European Journal of Radiology	83	3	531	536	2014	2.160 PNI	
99	Mesoscopic structures of triglyceride nanosuspensions studied by small-angle X-ray and neutron scattering and computer simulations	Schmiele, M., Schindler, T., Westermann, M., Steiniger, F., Radulescu, A., Kriele, A., Gilles, R., Unruh, T.	Journal of Physical Chemistry B	118	29	8808	8818	2014	3.377 PNI	
100	Preface	Schreyer, A.	Materials Science Forum	772				2014	Scopus PNI	

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
101	In situ small-angle X-ray scattering study of the perovskite-type carbide precipitation behavior in a carbon-containing intermetallic TiAl alloy using synchrotron radiation	Schwaighofer, E., Staron, P., Rashkova, B., Stark, A., Schell, N., Clemens, H., Mayer, S.	Acta Materialia	77		360	369	2014	3.940 PNI / AEM	
102	Hot-working behavior of an advanced intermetallic multi-phase $\gamma$ -TiAl based alloy	Schwaighofer, E.; Clemens, H.; Lindemann, J.; Stark, A.; Mayer, S.	Materials Science and Engineering A	614		297	310	2014	2.409 AEM / PNI	
103	Effect of carbon addition on solidification behavior, phase evolution and creep properties of an intermetallic beta-stabilized gamma-TiAl based alloy	Schwaighofer, Emanuel; Rashkova, Boryana; Clemens, Helmut; Stark, Andreas; Mayer, Svea	INTERMETALLICS	46		173	184	2014	2.119 AEM / PNI	
104	On the characterization of ultra-precise X-ray optical components: advances and challenges in ex situ metrology	Siewert, F. ; J. Buchheim, T. Zeschke, M. Störmer, G. Falkenberg, R. Sankari	J. Syn. Rad.	21		968	975	2014	3.022 PNI	
105	Micellization of Zonyl FSN-100 fluorosurfactant in aqueous solutions	Škvarla, J., Uchman, M., Procházka, K., Tošner, Z., Garamus, V.M., Pispas, S., Štěpánek, M.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	443		209	215	2014	2.354 PNI	
106	Mechanical Properties and Microstructures of Nano SiC Reinforced ZE10 Composites Prepared with Ultrasonic Vibration	SONG Jiangfeng, DIERINGA Hajo, HUANG Yuanding, GAN Weimin, KAINER Karl Ulrich, HORT Norbert	Advanced Materials Research	1019		169	176	2014	Scopus AEM / PNI	
107	Residual stresses of the as-cast Mg-xCa alloys with hot sprues by neutron diffraction	Song, J.F., Huang, Y.D., Kainer, K.U., Gan, W.M., Hort, N.	Advanced Materials Research	996		592	597	2014	Scopus AEM / PNI	

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
108	Combined use of micro computed tomography and histology to evaluate the regenerative capacity of bone grafting materials	Stalder, A.K., Ilgenstein, B., Chicherova, N., Deyhle, H., Beckmann, F., Müller, B., Hieber, S.E.	International Journal of Materials Research	105	7	679	691	2014	0.676	PNI
109	The transformation mechanism of $\beta$ phase to $\omega$ -related phases in Nb-rich $\gamma$ -TiAl alloys studied by in situ high-energy X-ray diffraction	Stark, A., Oehring, M., Pyczak, F., Lippmann, T., Lottermoser, L., Schreyer, A.	Materials Science Forum	772		85	89	2014		Scopus AEM / PNI
110	Depth-resolved residual stress analysis with conical slits for high-energy X-rays	Staron, P., Fischer, T., Eims, E.-H., Frömbgen, S., Schell, N., Daneshpour, S., Martins, R.V., Müller, M., Schreyer, A.	Materials Science Forum	772		3	7	2014		Scopus PNI
111	Depth-resolved residual stress analysis with high-energy synchrotron X-rays using a conical slit cell	Staron, P.; Fischer, T.; Keckes, J.; Schratler, S.; Hatzenbichler, T.; Schell, N.; Mueller, M.; Schreyer, A.	INTERNATIONAL CONFERENCE ON RESIDUAL STRESSES 9 (ICRS 9)	768-769		72	75	2014		- PNI
112	Preparation and characterization of X-ray mirrors with three single layers of a-C, B4C and Ni onto two 820 mm long Si substrate	Störmer, M.; F. Siewert, J.Buchheim, A. Pilz, M. Kuhlmann, E. Ploenjes, K. Tiedtke	Proc. SPIE	9207		92070H		2014		Scopus PNI
113	In situ high energy X-ray diffraction for investigating the 3 phase transformation in hot rolled TRIP-aided steels	Suwanpinij, P., Stark, A., Li, X., Römer, F., Herrmann, K., Lippmann, T., Bleck, W.	Advanced Engineering Materials	16	8	1044	1051	2014	1.508	PNI / AEM
114	In situ synchrotron radiation diffraction during solidification of Mg4Y and Mg4YxGd alloys (x = 1, 4 wt.%)	Szakacs, G., Wiese, B., Mendis, C.L., Tolnai, D., Stark, A., Schell, N., Naira, M., Kainer, K.U., Hort, N.	Magnesium Technology			213	218	2014		- AEM / PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
115	In situ synchrotron radiation diffraction during solidification of Mg15Gd	Szakacs, G.; Mendis, C.L.; Wiese, B.; Tolnai, D.; Stark, A.; Schell, N.; Kainer, K.U.; Hort, N.	European Cells and Materials	28		3		2014	Scopus PNI	
116	Structural and magnetic properties of the holmium-yttrium superlattice	Tarnavich, V.V., Volegov, A.S., Lott, D., Mattauch, S., Vorobiev, A.A., Oleshkevych, A., Grigoriev, S.V.	Journal of Surface Investigation	8	5	976	982	2014	Scopus PNI	
117	Field-induced chirality in the helix structure of Ho/Y multilayers	Tarnavich, V.V., Lott, D., Mattauch, S., Oleshkevych, A., Kapaklis, V., Grigoriev, S.V.	Physical Review B - Condensed Matter and Materials Physics	89	5	054406		2014	3.664 PNI	
118	Development and characterization of B4C reinforced detonation-sprayed Al coatings	Tillmann, W., Hollingsworth, P.S., Fischer, G., Nellesen, J., Beckmann, F.	Journal of Thermal Spray Technology	23	3	289	295	2014	1.491 PNI	
119	Small-angle scattering from polydisperse particles with a diffusive surface	Tomchuk, O.V., Bulavin, L.A., Aksenov, V.L., Garamus, V.M., Ivankov, O.I., Vul', A.Y., Dideikin, A.T., Avdeev, M.V.	Journal of Applied Crystallography	47	2	642	653	2014	3.950 PNI	
120	Influence of deformation temperature on texture evolution in HPT deformed NiAl	Tränkner, C., Chulist, R., Skrotzki, W., Beausir, B., Lippmann, T., Horky, J., Zehetbauer, M.	IOP Conference Series: Materials Science and Engineering	63	1	12154		2014	Scopus PNI	
121	Processing of magnesium porous structures by infiltration casting for biomedical applications	Trinidad, J., Marco, I., Arruebarrena, G., Wendt, J., Letzig, D., Sáenz De Argandoña, E., Goodall, R.	Advanced Engineering Materials	16	2	241	247	2014	1.508 AEM / PNI	
122	Orientation distribution of vertically aligned multiwalled carbon nanotubes	Vainio, U., Schnoor, T.I.W., Koyiloth Vayalil, S., Schulte, K., Müller, M., Lilleodden, E.T.	Journal of Physical Chemistry C	118	18	9507	9513	2014	4.835 PNI / AEM	

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
123	The development of the rota	Ventzke, V., Riekehr, S., Hors	Praktische Metallographie/F 51	6		401	424	2014	0.176	AEM / PNI
124	The development of the rotational friction welding process for the welding of $\gamma$ -TiAl-casting alloy Ti-47Al-3.5(Mn+Cr+Nb)-0.8(B+Si) to Ti6Al4V [Prozessentwicklung zum Rotationsreibschweißen der $\gamma$ -TiAl-Feingusslegierung Ti-47Al-3.5(Mn+Cr+Nb)-0.8(B+Si) mit Ti6Al4V] PART I	Ventzke, V., Riekehr, S., Horstmann, M., Kashaev, N., Brokmeier, H.-G., Huber, N.	Praktische Metallographie/Practical Metallography	51	6	321	352	2014	0.176	AEM / PNI
125	Experimental and numerical analysis of hot tearing susceptibility for Mg-Y alloys	Wang, Z., Huang, Y., Srinivasan, A., Liu, Z., Beckmann, F., Kainer, K.U., Hort, N.	Journal of Materials Science	49	1	353	362	2014	2.305	AEM / PNI
126	PH controlled condensation of polysiloxane networks at the water-air interface	Wieland, D.C.F., Degen, P., Paulus, M., Schroer, M.A., Rehage, H., Tolan, M.	Colloids and Surfaces A: Physicochemical and Engineering Aspects	455	1	44	48	2014	2.354	PNI
127	In situ synchrotron radiation diffraction during melting and solidification of Mg-Al alloys containing CaO	Wiese, B., Mendis, C.L., Tolnai, D., Szakacs, G., Stark, A., Schell, N., Reichel, H.P., Bruckner, R., Kainer, K.U., Hort, N.	Magnesium Technology			191	195	2014		- AEM / PNI



No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
128	Quantitative breast tissue characterization using grating-based x-ray phase-contrast imaging	Willner, M., Herzen, J., Grandl, S., Auweter, S., Mayr, D., Hipp, A., Chabior, M., Sarapata, A., Achterhold, K., Zanette, I., Weitkamp, T., Sztrókay, A., Hellerhoff, K., Reiser, M., Pfeiffer, F.	Physics in Medicine and Biology	59	7	1557	1571	2014	2.922	PNI
129	High energy X-ray diffraction study of a dental ceramics-titanium functional gradient material prepared by field assisted sintering technique	Witte, K., Bodnar, W., Schell, N., Lang, H., Burkel, E.	Materials Characterization	95		266	271	2014	1.925	PNI
130	Effects of extracellular magnesium on the differentiation and function of human osteoclasts	Wu, L., Luthringer, B.J.C., Feyerabend, F., Schilling, A.F., Willumeit, R.	Acta Biomaterialia	10	6	2843	2854	2014	5.684	AEM / PNI
131	Insights into the interactions among surfactin, betaines, and PAM: Surface tension, small-Angle neutron scattering, and small-Angle x-ray scattering study	Xiao, J., Liu, F., Garamus, V.M., Almásy, L., Handge, U.A., Willumeit, R., Mu, B., Zou, A.	Langmuir	30	12	3363	3372	2014	4.384	PNI / AEM
132	Probing opto-mechanical stresses within azobenzene-containing photosensitive polymer films by a thin metal film placed above	Yadavalli, N.S., Korolkov, D., Moulin, J.-F., Krutyeva, M., Santer, S.	ACS Applied Materials and Interfaces	6	14	11333	11340	2014	5.900	PNI
133	Self-Assembly of Diblock Copolymer-Maghemite Nanoparticle Hybrid Thin Films	Yao, Yuan; Metwalli, Ezzeldin; Moulin, Jean-Francois; Su, Bo; Opel, Matthias; Mueller-Buschbaum, Peter	ACS APPLIED MATERIALS & INTERFACES	6	20	18152	18162	2014	5.900	PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
134	Microstructural evolution and delayed hydride cracking of FSW-AZ31 magnesium alloy during SSRT	Zeng, Rong-chang; Dietzel, Wolfgang; Zettler, Rudolf; Gan, Wei-min; Sun, Xin-xin	TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA	24	10	3060	3069	2014	1.001	AEM / PNI
135	Preparation of long-range ordered nanostructures in semicrystalline diblock copolymer thin films using micromolding	Zhang, P., Huang, H.-Y., Chen, Y., Yu, S., Krywka, C., Vayalil, S.K., Roth, S.V., He, T.-B.	Chinese Journal of Polymer Science (English Edition)	32	9	1188	1198	2014	1.420	PNI
136	Mixture of nonionic/ionic surfactants for the formulation of nanostructured lipid carriers: Effects on physical properties	Zhao, S., Yang, X., Garamus, V.M., Handge, U.A., Luthringer, B., Zhao, L., Salamon, G., Willumeit, R., Zou, A., Fan, S.	Langmuir	30	23	6920	6928	2014	4.384	PNI / AEM
137	Biomimetic Transferable Surface for a Real Time Control over Wettability and Photoerasable Writing with Water Drop Lens	Zillohu, Ahnaf Usman; Abdelaziz, Ramzy; Homaeigohar, Shahin; Krasnov, Igor; Mueller, Martin; Strunskus, Thomas; Elbahri, Mady	SCIENTIFIC REPORTS	4		7407		2014	5.078	PNI / AEM
138	Thermo-Plasmonics for Localized Graphitization and Welding of Polymeric Nanofibers	Zillohu, Ahnaf Usman; Alissawi, Nisreen; Abdelaziz, Ramzy; Elbahri, Mady	MATERIALS	7	1	323	332	2014	1.879	AEM / PNI
139	Grating interferometry-based phase microtomography of atherosclerotic human arteries	Buscema, M., Holme, M.N., Deyhle, H., Schulz, G., Schmitz, R., Thalmann, P., Hieber, S.E., Chicherova, N., Beckmann, F., Herzen, J., Weitkamp, T., Saxer, T., Müller, B.	DEVELOPMENTS IN X-RAY TOMOGRAPHY IX, Proceedings of SPIE	9212				2014		- PNI

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
1	Penetration of normal, damaged and diseased skin - An in vitro study on dendritic core-multishell nanotransporters	Alnasif N., C. Zoschke, E. Fleige, R. Brodewolf, A. Boreham, E. Rühl, K.-M. Eckl, H.-F. Merk, H. C. Hennies, U. Alexiev, R. Haag, S. Küchler, M. Schäfer-Korting	J Contr. Release	185	1	45	50	2014	7.261	Regenerative Medicine
2	Chondrocyte re-differentiation on ethyl lysine diisocyanate cross-linked gelatin based 3-D scaffolds: application in cartilage tissue engineering	Arya N., T. P. Gebauer, A. T. Neffe, A. Lendlein, V. P. Shastri	J Tissue Eng Regen Med	8		253		2014	4.428	Regenerative Medicine
3	Shape-Memory Hydrogels with Crystallizable Oligotetrahydrofuran Side Chains	Balk M., M. Behl, U. Nöchel, A. Lendlein	Macromol Symp	345		8	13	2014	-	Regenerative Medicine
4	High Throughput Characterization of Polymer Libraries by Diffuse Reflectance Infrared Spectroscopy	Baudis S., M. Behl, A. Lendlein	Macromol Mater Eng	299		1292	1297	2014	2.781	Regenerative Medicine
5	High-Throughput Synthesis as a Technology Platform for Copolymer Libraries	Baudis S., M. Behl, A. Lendlein	Macromol Symp	345		105	111	2014	-	Regenerative Medicine
6	Smart polymers for biomedical applications	Baudis S., M. Behl, A. Lendlein	Macromol. Chem Phys.	215		2399	2402	2014	2.451	Regenerative Medicine
7	Polymer networks capable of reversible shape-memory-effects, Conference: 248th National Meeting of the American-Chemical-Society (ACS), San Francisco, CA, AUG 10-14, 2014	Behl M., K. Kratz, U. Nöchel, T. Sauter, A. Lendlein	Abstracts of papers of the American Chemical Society, 248, meeting abstract: 111-PMSE					2014	ISI list	Regenerative Medicine
8	Temperature and environment dependent dynamic properties of a dendritic polyglycerol sulfate	Boreham A., R. Brodewolf, M. Pfaff, T.-Y. Kim, T. Schlieter, L. Mundhenk, A.D. Gruber, D. Gröger, K. Licha, R. Haag, U. Alexiev	Polym Advan Technol	25	11	1329	1336	2014	1.964	Regenerative Medicine
9	Changes in platelet morphology and function during 24 hours of storage	Braune S., M. Walter, A. Lendlein, F. Jung	Clin Hemorheol Microcirc	58		159	170	2014	2.215	Regenerative Medicine
10	Improved transfection in human mesenchymal stem cells: Effective intracellular release of pDNA by magnetic polyplexes	Delyagina E., A. Schade, D. Scharfenberg, A. Skorska, C. Lux, W. Li, G. Steinhoff	Nanomedicine	9	7	999	1017	2014	5.824	Regenerative Medicine
11	Tracer Diffusion in heterogeneous Polymer Networks	Di Lorenzo F., S. Seiffert	Macromol. Chem. Phys	215		2097	2111	2014	2.451	Regenerative Medicine

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
12	Crystallization and Phase Segregation of Multifunctional Shape-Memory Polymers in Spin Coated Thin Films Altered by Diurethane Junction Units	Fang L., W. Yan, M. Zierke, K. Richau, M. Behl, K. Kratz, A. Lendlein	Macromol Symp	345		83	90	2014		Regenerative Medicine
13	Low ionic liquid concentration in water: a green and simple approach to improve activity and selectivity of lipases	Filice M., O. Romero, O. Abian, B. de las Rivas, J. M. Palomo	RSC Advances	4		49115	49122	2014	3.708	Regenerative Medicine
14	Effects of radiographic contrast media on the micromorphology of the junctional complex of erythrocytes visualized by immunocytochemistry	Franke R. P., A. Krüger, T. Scharnweber, F. Wenzel, F. Jung	Int J Mol Sci	15		16134	16152	2014	2.339	Regenerative Medicine
15	Radiographic contrast media alterate the localization of actin/band4.9 in the membrane cytoskeleton of human erythrocytes	Franke R. P., T. Scharnweber, R. Fuhrmann, C. Mrowietz, F. Wenzel, A. Krüger, F. Jung	Clin Hemorheol Microcirc	58		49	63	2014	2.215	Regenerative Medicine
16	Effect of radiographic contrast media on the spectrin/band3-network of the membrane skeleton of erythrocytes	Franke R. P., T. Scharnweber, R. Fuhrmann, F. Wenzel, A. Krüger, C. Mrowietz, F. Jung	PlosOne	9	2	e89512		2014	3.534	Regenerative Medicine
17	Photoinduced synthesis of polyester networks from methacrylate functionalized precursors: Analysis of side reactions	Friess F., A. Lendlein, C. Wischke	Polym Advan Technol	25	11	1285	1292	2014	1.964	Regenerative Medicine
18	Polymer Micronetworks with Shape Memory as Future Platform to Explore Shape-Dependent Biological Effects	Friess F., U. Nöchel, A. Lendlein, C. Wischke	Adv. Healthcare Mater	3	12	1986	1990	2014	4.880	Regenerative Medicine
19	Effect of radiographic contrast media (Iodixanol, Iopromide) on hemolysis	Gerk U., A. Krüger, R. P. Franke, F. Jung	Clin Hemorheol Microcirc	58		171	174	2014	2.215	Regenerative Medicine
20	Atomistic simulation of the shape-memory effect in dry and water swollen poly[(rac-lactide)-co-glycolide] and copolyesterurethanes thereof	Ghobadi E., M. Heuchel, K. Kratz, A. Lendlein	Macromol. Chem. Phys	215		65	75	2014	2.451	Regenerative Medicine
21	Fabrication of Thermo-responsive Nanogels by Thermo-Nanoprecipitation and in situ Encapsulation of Bioactives	Giulbudagian M., M. Asadian-Birjand, D. Steinhilber, K. Achazi, M. A. Molina, M. Calderón	Polymer Chemistry	5		6909	6913	2014	5.368	Regenerative Medicine

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
22	Tissue reaction induced by implanted venous access ports in adult patients after infection of the implantation site	Hiebl B., C. Hopperdietzel, H. Hünigen, K. Dietze, F. Jung, S. M. Niehues	Clin Hemorheol Microcirc	58		107	113	2014	2.215	Regenerative Medicine
23	Unprecedented strong lewis bases - Synthesis and methyl cation affinities of dimethylamino-substituted terpyridines	Hommes P., C. Fischer, C. Lindner, H. Zipse, H.-U. Reissig	Angew Chem Int Edit	53	29	7647	7651	2014	11.336	Regenerative Medicine
24	Peripheral opioid receptor blockade increases postoperative morphine demands - a randomized, double-blind, placebo-controlled trial	Jagla C. A., P. Martus, C. Stein	Pain	155		2056	2062	2014	5.836	Regenerative Medicine
25	Crystallization Behavior of Copolyesterurethanes Containing Different Weight Contents of Crystallizable Poly( <i>ε</i> -caprolactone) Segments	Jiang Y., L. Fang, K. Kratz, A. Lendlein	Macromol Symp	345		59	65	2014	-	Regenerative Medicine
26	Effect of the Fixation Temperature $T_{low}$ on the Crystallization Behavior and Shape-Memory Performance of Crystallizable Copolyesterurethanes	Jiang Y., L. Fang, K. Kratz, A. Lendlein	Macromol Symp	345		75	82	2014	-	Regenerative Medicine
27	Tissue oxygen partial pressure in the tibialis anterior muscle in patients with claudication before, during and after a two-stage treadmill stress test	Jung F., A. Krüger, G. Pindur, R. Sternitzky, R.P. Franke, T. Gori	Biorheology	51		207	214	2014	1.590	Regenerative Medicine
28	Has science started to go wrong?	Jung F., T. Gor	Clin. Hemorheol. Microcirc	57		93	94	2014	2.215	Regenerative Medicine
29	Influence of expansion cooling regime on morphology of poly( <i>ε</i> -caprolactone) foams prepared by pressure quenching using supercritical CO <sub>2</sub>	Karimi M., M. Heuchel, T. Weigel, K. Kratz, A. Lendlein	Polym Advan Technol	25	11	1349	1355	2014	1.964	Regenerative Medicine
30	Universal relations in linear thermoelastic theories of thermally-responsive shape memory polymers	Kazakevičiūtė-Makovska R., M. Heuchel, K. Kratz, H. Steeb	Int J Eng Sci	82		140	158	2014	2.291	Regenerative Medicine

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
31	Angiogenically stimulated alternative monocytes maintain their pro-angiogenic and none-inflammatory phenotype in long time co-cultures with HUVEC	Krüger A., A. Mayer, T. Roch, C. Schulz, A. Lendlein, F. Jung	Clin Hemorheol Microcirc	58		229	240	2014	2.215	Regenerative Medicine
32	Shape-Memory Polymer Networks Prepared from Star-Shaped Poly[(L-lactide)-co-glycolide] Precursors	Kusmierczuk M., U. Nöchel, S. Baudis, M. Behl, K. Kratz, A. Lendlein	Macromol Symp	345		98	104	2014		Regenerative Medicine
33	From macromolecules to materials to systems	Lendlein A., A.J. Domb, S. Baudis, M. Behl	Polym Advan Technol	25	11	1187	1188	2014	1.964	Regenerative Medicine
34	Advanced functional polymers for medicine	Lendlein A., A.T. Neffe, C. Jérôme	Adv. Healthcare Mater	3	12	1939	1940	2014	4.880	Regenerative Medicine
35	Preface	Lendlein A., M. Behl, A. J. Domb	Macromol Symp	345	1			2014		Regenerative Medicine
36	Biodegradable depsipeptide-PDO-PEG-based block copolymer micelles as nanocarriers for controlled release of doxorubicin	Lv J., L. Zhang, M. Khan, X. Ren, J. Guo, Y. Feng	React Funct Polym	82		89	97	2014	0.879	Regenerative Medicine
37	Self-Assembly of Polyethylenimine-Modified Biodegradable Complex Micelles as Gene Transfer Vector for Proliferation of Endothelial Cells	Lv J., X. Hao, J. Yang, Y. Feng, M. Behl, A. Lendlein	Macromol Chem Phys	215		2463	2472	2014	2.451	Regenerative Medicine
38	EPO or PlacEPO? Science versus practical experience	M. Hardeman, T. Alexy, B. Brouwer, P. Connes, F. Jung, H. Kuipers, O. K. Baskurt	Biorheology	51		83	90	2014	1.590	Regenerative Medicine
39	Characterization of protein-adjuvant coencapsulation in microparticles for vaccine delivery	Mathew S., C. Wischke, A. Lendlein	Eur. J. Pharm. Biopharm	87		403	407	2014	4.245	Regenerative Medicine
40	Positively Charged Thermoresponsive Nanogels for Anticancer Drug Delivery	Molina M., M. Giubudagian, M. Calderón	Macromol Chem Phys	215		2414	2419	2014	2.451	Regenerative Medicine
41	Micellization of Aminoterminated Poly(ethylene glycol)-block-poly(propylene glycol)-block-poly(ethylene glycol) in the Presence of Hyaluronic Acid	Neffe A. T., H. D. Santan, S. Kamlage, B. Gottschalk, A. Lendlein	Macromol Symp	345		91	97	2014		Regenerative Medicine
42	Crosslinking of gelatin by ring opening metathesis under aqueous conditions – an exploratory study	Neffe A. T., K. Chua, K. Luetzow, B. F. Pierce, A. Lendlein, A. D. Abell	Polym Advan Technol	25	11	1371	1375	2014	1.964	Regenerative Medicine

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
43	Multivalent Grafting of Hyperbranched Oligo- and Polyglycerols Shielding Rough Membranes to Mediate Hemocompatibility	Neffe A. T., M. von Ruesten-Lange, S. Braune, K. Lützwow, T. Roch, K. Richau, A. Krüger, T. Becherer, A.F. Thünemann, F. Jung, R. Haag, A. Lendlein	J. Mater Chem B	2		3626	3635	2014	ISI list	Regenerative Medicine
44	Triple-Shape Effect with Adjustable Switching Temperatures in Crosslinked Poly[ethylene-co-(vinyl acetate)]	Nöchel U., Uttamchand Narendra Kumar, K. Wang, K. Kratz, M. Behl, A. Lendlein	Macromol Chem Phys	215		2446	2456	2014	2.451	Regenerative Medicine
45	Skin barrier disruptions in tape stripped and allergic dermatitis models have no effect on dermal penetration and systemic distribution of AHAPS-functionalized silica nanoparticles	Ostrowski A., D. Nordmeyer, A. Boreham, R. Brodewolf, L. Mundhenk, J.W. Fluhr, J. Lademann, C. Graf, E. Rühl, U. Alexiev, A.D. Gruber	Nanomed-Nanotechnol	10		1571	1581	2014	5.978	Regenerative Medicine
46	Percutaneous left atrial appendage closure with a novel self-modelizing device; A pre-clinical feasibility study	Park J.-W., M.A. Sherif, K. Zintl, Y.-Y. Lam, M. Goedde, T. Scharnweber, F. Jung, R.P. Franke, J. Brachmann	Int. J. Cardiol	177	3	957	963	2014	6.175	Regenerative Medicine
47	Magnetically Controlled Shape-Memory Effects of Hybrid Nanocomposites from Oligo(?-pentadecalactone) and Covalently Integrated Magnetite Nanoparticles	Razzaq M. Y., M. Behl, U. Nöchel, A. Lendlein	Polymer	55		5953	5960	2014	3.766	Regenerative Medicine
48	A High Content Screening Assay for Evaluation of Biomaterial-Mediated Cell Fusion Processes	Rijckaert B., A. T. Neffe, T. Roch, T. Gebauer, B.F. Pierce, J. Görs, J. J. Smink, M. Gossen, A. Lendlein, A. Leutz	Macromol Symp	346		91	99	2014	-	Regenerative Medicine
49	Interaction of poly(ether imide) films with early immune mechanisms	Roch T., C. Schulz, F. Jung, N. Ma, A. Lendlein	Clin. Hemorheol. Microcirc	57		203	212	2014	2.215	Regenerative Medicine
50	Expression pattern analysis and activity determination of matrix metalloproteinase derived from human macrophage subset	Roch T., O. Akymenko, A. Krüger, F. Jung, N. Ma, A. Lendlein	Clin Hemorheol Microcirc	58		147	158	2014	2.215	Regenerative Medicine
51	Double Layer Porous Structures by an Injection Molding/Particulate Leaching Approach	Saatchi M., M. Behl, A. Lendlein	Macromol Symp	346		100	107	2014	-	Regenerative Medicine
52	Synthesis of high molecular weight polyglycolide in supercritical carbon dioxide	Schmidt C., M. Behl, A. Lendlein, S. Beuermann	RSC Advances	4		35099	35105	2014	3.708	Regenerative Medicine

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
53	Characterization of Langmuir Films Prepared from Copolyesterurethanes Based on Oligo( $\omega$ -pentadecalactone) and Oligo( $\epsilon$ -caprolactone) Segments	Schöne A.-C., B. Schulz, K. Richau, K. Kratz, A. Lendlein	Macromol Chem Phys	215		2437	2445	2014	2.451	Regenerative Medicine
54	Interaction of human plasma proteins with thin gelatin-based hydrogel films: a QCM-D and ToF-SIMS study	Schönwälder S. M. S., F. Bally, L. Heinke, C. Azucena, Ö. D. Bulut, S. Heißler, F. Kirschhöfer, T.P. Gebauer, A. T. Neffe, A. Lendlein, G. Brenner-Weiß, J. Lahann, A. Welle, J. Overhage, C. Wöll	Biomacro-molecules	15	7	2898	1406	2014	5.788	Regenerative Medicine
55	Adherence and shear-resistance of primary human endothelial cells on smooth poly(ether imide) films	Schulz C., M. von Rüsten-Lange, F. Jung, A. Lendlein	Clin. Hemorheol. Microcirc	57		147	158	2014	2.215	Regenerative Medicine
56	IL-35-producing B cells are critical regulators of immunity during autoimmune and infectious diseases	Shen P., T. Roch, V. Lampropoulou, R. A. O'Connor, U. Stervbo, E. Hilgenberg, S. Ries, V. D. Dang, Y. Jaimes, C. Daridon, R. Li, L. Jouneau, P. Boudinot, S. Wilantri, I. Sakwa, Y. Miyazaki, M. D. Leech, R. C., McPherson, S. Wirtz, M. Neurath, K. Hoehlig., E. Meinel, A. Grützkau, J. R. Grün, K. Horn, A. A. Kühl, T. Dörner, A. Bar-Or, S. H. E. Kaufmann, S. M. Anderton, S. Fillatreau	Nature	507		366	370	2014	42.351	Regenerative Medicine
57	Proliferation and migration of human vascular endothelial cells mediated by ZNF580 gene complexed with mPEG-b-P(MMD-co-GA)-g-PEI microparticles	Shi C., F. Yao, J. Huang, G. Han, Q. Li, M. Khan, Y. Feng, W. Zhang	J Mater Chem B	2		1825	1837	2014	ISI list	Regenerative Medicine
58	Regulation of the endothelialization by human vascular endothelial cells by ZNF580 gene complexed with biodegradable microparticles	Shi C., F. Yao, Q. Li, M. Khan, X. Ren, Y. Feng, J. Huang, W. Zhang	Biomaterials	35	25	7133	7145	2014	8.312	Regenerative Medicine



No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
59	Polycaprolactone/oligomer compound scaffolds for cardiac tissue engineering	Srinivasa Reddy C., J. Reddy Venugopal, S. Ramakrishna, E. Zussman	J Biomed Mater Res A	102	10	3713	3725	2014	2.841	Regenerative Medicine
60	Biocompatibility and Inflammatory Response in vitro and in vivo to Gelatin-based Biomaterials with Tailorable Elastic Properties	Ullm S., A. Krüger, C. Tondera, T. P. Gebauer, A. T. Neffe, A. Lendlein, F. Jung, J. Pietzsch	Biomaterials	35		9755	9766	2014	8.312	Regenerative Medicine
61	Impact of Molecular Architectures on the Thermal and Mechanical Properties of Multi-Phase Polymer Networks	Wang L., U. Nöchel, L. Fang, K. Kratz, A. Lendlein	Macromol Symp	346		82	90	2014	-	Regenerative Medicine
62	Genetic engineering of mesenchymal stem cells by non-viral gene delivery	Wang W., X. Xu, Z. Li, A. Lendlein, N. Ma	Clin Hemorheol Microcirc	58		19	48	2014	2.215	Regenerative Medicine
63	Modes of TAL effector mediated repression	Werner J., M. Gossen	Nucleic Acids Res	42	21	13061	13073	2014	8.278	Regenerative Medicine
64	Supramolecular polymers as surface coatings: rapid fabrication of healable superhydrophobic and slippery surfaces	Wie Q., C. Schlaich, S. Prévost, A. Schulz, C. Böttcher, M. Gradzielski, Z. Qi, R. Haag, and C. A. Schalley	Adv. Mater	26		7358	7364	2014	15.409	Regenerative Medicine
65	Mussel-inspired dendritic polymers as universal multifunctional coatings	Wie Q., K. Achazi, H. Liebe, A. Schulz, P.-L. M. Noeske, I. Grunwald, and R. Haag	Angew. Chem. Int. Ed.	122		684	692	2014	11.336	Regenerative Medicine
66	Multivalent anchored and crosslinked hyperbranched polyglycerol monolayers as antifouling coating for titanium oxide surfaces	Wie Q., S. Krysiak, K. Achazi, T. Becherer, P.-L. M. Noeske, F. Paulus, H. Liebe, I. Grunwald, J. Dervedde, A. Hartwig, T. Hugel, and R. Haag	Colloids Surf. B	122		684	692	2014	4.287	Regenerative Medicine
67	A universal approach to crosslinked hierarchical polymer multilayers as stable and highly efficient antifouling coatings	Wie Q., T. Becherer, P.-L. M. Noeske, I. Grunwald, R. Haag	Adv. Mater	26		2688	2693	2014	15.409	Regenerative Medicine
68	Multivalent Anchoring and Crosslinking of mussel-inspired antifouling surface coatings	Wie Q., T. Becherer, R. Mutihac, P.-L. M. Noeske, F. Paulus, R. Haag, and I. Grunwald	Biomacro-molecules	15		3061	3071	2014	5.788	Regenerative Medicine

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
69	Protein Interactions with Polymer Coatings and Biomaterials	Wie Q., T. Becherer, S. Angioletti-Uberti, J. Dzubiella, C. Wischke, A. T. Neffe, A. Lendlein, M. Ballauff, R. Haag	Angew Chem. Int. Edit.	53	31	8004	8031	2014	11.336	Regenerative Medicine
70	Method for Preparation, Programming, and Characterization of Miniaturized Particulate Shape-Memory Polymer Matrices	Wischke C., A. Lendlein	Langmuir	30		2820	2827	2014	4.384	Regenerative Medicine
71	Sustained release carrier for adenosine triphosphate as signaling molecule	Wischke C., J. Weigel, L. Bulavina, A. Lendlein	J. Control Release	195		86	91	2014	7.261	Regenerative Medicine
72	Shape-Memory Effect of Micro-/Nanoparticles from Thermoplastic Multiblock Copolymers	Wischke C., M. Schossig, A. Lendlein	Small	10	1	83	87	2014	7.514	Regenerative Medicine
73	Stem Cells: Controlling Major Cellular Processes of Human Mesenchymal Stem Cells Using Microwell Structures	Xu X., W. Wang, K. Kratz, L. Fang, Z. Li, A. Kurtz, N. Ma, A. Lendlein	Adv. Healthcare Mater	3	12	1933		2014	4.880	Regenerative Medicine
74	Controlling Major Cellular Processes of Human Mesenchymal Stem Cells Using Microwell Structures	Xu X., W. Wang, K. Kratz, L. Fang, Z. Li, A. Kurtz, N. Ma, A. Lendlein	Adv. Healthcare Mater	3	12	1991	2003	2014	4.880	Regenerative Medicine
75	Modification of polycarbonateurethane surface with poly (ethylene glycol) monoacrylate and phosphorylcholine glyceraldehyde for anti-platelet adhesion	Yang J., J. Lv, B. Gao, L. Zhang, D. Yang, C. Shi, J. Guo, W. Li, Y. Feng	Frontiers Chem Sci Eng	8	2	188	196	2014	-	Regenerative Medicine
76	Preparation of Magneto-Sensitive Polymer Nanocomposite Microparticles from Copolyesterurethanes via Electrospaying	Zhang Q., T. Sauter, L. Wang, L. Fang, K. Kratz, A. Lendlein	Macromol Symp	345		66	74	2014	-	Regenerative Medicine

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
1	Global emissions of terpenoid VOCs from terrestrial vegetation in the last millennium	Acosta Navarro, J.C., Smolander, S., Struthers, H., Zorita, E., Ekman, A.M.L., Kaplan, J.O., Guenther, A., Arneeth, A., Riipinen, I.	Journal of Geophysical Research: Atmospheres	119	11	6867	6885	2014	3.440	PACES II
2	Pressure effects on regional mean sea level trends in the German Bight in the twenty-first century	Albrecht, F., Weisse, R.	Ocean Dynamics	64	5	633	642	2014	1.683	PACES II
3	Changes in atmospheric nitrate deposition in Germany - An isotopic perspective	Beyn, F., Matthias, V., Dähnke, K.	Environmental Pollution	194		1	10	2014		Scopus PACES II
4	A diagnostic evaluation of modeled mercury wet depositions in Europe using atmospheric speciated high-resolution observations	Bieser, J., De Simone, F., Gencarelli, C., Geyer, B., Hedgecock, I., Matthias, V., Travnikov, O., Weigelt, A.	Environmental Science and Pollution Research	21	16	9995	10012	2014	2.757	PACES II
5	Reconstruction of Past and Prediction of Future Benzo[a]pyrene Concentrations Over Europe	Bieser, Johannes; Aulinger, Armin; Matthias, Volker; Quante, Markus	AIR POLLUTION MODELING AND ITS APPLICATION XXII			59	63	2014		- PACES II
6	Late Holocene primary productivity and sea surface temperature variations in the northeastern Arabian Sea: Implications for winter monsoon variability	Böll, A., Lückge, A., Munz, P., Forke, S., Schulz, H., Ramaswamy, V., Rixen, T., Gaye, B., Emeis, K.-C.	Paleoceanography	29				2014	3.918	PACES II
7	Biography of Wood-Boring Crustaceans (Isopoda: Limnoriidae) Established in European Coastal Waters	Borges L. M., Merckelbach, L.M., Cragg, S.M.	PLOS ONE	9	10			2014	3.534	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
8	Biodegradation of wood exposed in the marine environment: Evaluatio of the hazard posed by marine wood-borers in fifteen European sites	Borges, L.M.S.	International Biodeterioration and Biodegradation	96		97	104	2014	Scopus	PACES II
9	Diversity, environmental requirements, and biogeography of bivalve wood-borers (Teredinidae) in European coastal waters	Borges, L.M.S., Merckelbach, L.M., Sampaio, T., Cragg, S.M.	Frontiers in Zoology	11	1			2014	2.304	PACES II
10	Mean spring conditions 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					2014	1.855	PACES II
11	Erratum: Temperature response of denitrification and anammox reveals the adaptation of microbial communities to in situ temperatures in permeable marine sediments that span 50° in latitude	Canion, A., Kostka, J.E., Gihring, T.M., Huettel, M., Van Beusekom, J.E.E., Gao, H., Lavik, G., Kuypers, M.M.M.	Biogeosciences	11	2	461	462	2014	3.753	PACES II
12	Does Rotation Influence Double-Diffusive Fluxes in Polar Oceans?	Carpenter, J. R.; Timmermans, M. -L.	JOURNAL OF PHYSICAL OCEANOGRAPHY	44	1	289	296	2014	2.871	PACES II
13	A long-term climatology of medicanes	Cavicchia, L. Storch v. H., Hans, G.S.	Climate Dynamics	43	5-6	1183	1195	2014	4.619	PACES II
14	An interactive dynamic multi-objective programming model to support better land use planning	Chang, Y.-C., Ko, T.-T.	Land Use Policy	36		13	22	2014	Scopus	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
15	Polar Low genesis over the North Pacific under different global warming scenarios	Chen, F., von Storch, H., Zeng, L., Du, Y.	Climate Dynamics					2014	4.619	PACES II
16	The fate of per- and polyfluoroalkyl substances within a melting snowpack of a boreal forest	Codling, G., Halsall, C., Ahrens, L., Del Vento, S., Wiberg, K., Bergknut, M., Laudon, H., Ebinghaus, R.	Environmental Pollution	191		190	198	2014	3.902	PACES II
17	North sea storminess from a novel storm surge record since AD 1843	Dangendorf, S., Müller-Navarra, S., Jensen, J., Schenk, F., Wahl, T., Weisse, R.	Journal of Climate	27	10	3582	3595	2014	4.904	PACES II
18	Evidence for long-term memory in sea level	Dangendorf, S., Rybski, D., Mudersbach, C., Müller, A., Kaufmann, E., Zorita, E., Jensen, J.	Geophysical Research Letters	41				2014		Scopus PACES II
19	The influence of channel deepening on estuarine turbidity levels and dynamics, as exemplified by the Ems estuary	de Jonge, Victor N.; Schuttelaars, Henk M.; van Beusekom, Justus E. E.; Talke, Stefan A.; de Swart, Huib E.	Estuarine, Coastal and Shelf Science	139		46	59	2014	2.253	PACES II
20	NatureCultures in Old and New Worlds. Steps towards an ecolinguistic perspective on framing a 'new' continent	Döring, M., Zunino, F.	Language Sciences	41		34	40	2014		Scopus PACES II
21	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, A., Panitz, H.-J., Schubert-Frisius, M., Lüthi, D.	Climate Dynamics					2014	4.619	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
22	The North Sea - A shelf sea in the Anthropocene	Emeis, K.-C., van Beusekom, J., Callies, U., Ebinghaus, R., Kannen, A., Kraus, G., Kröncke, I., Lenhart, H., Lorkowski, I., Matthias, V., Möllmann, C., Pätsch, J., Scharfe, M., Thomas, H., Weisse, R., Zorita, E.	Journal of Marine Systems					2014	2.476	PACES II
23	Assimilation of decomposed in situ directional wave spectra into a numerical wave model of typhoon waves	Fan, Y.M., Günther, H., Kao, C.C., Lee, B.C.	Natural Hazards and Earth System Sciences	14	1	73	80	2014	1.826	PACES II
24	Storminess over the North Atlantic and northwestern Europe-A review	Feser, F., Barcikowska, M., Krueger, O., Schenk, F., Weisse, R., Xia, L.	Quarterly Journal of the Royal Meteorological Society					2014		Scopus PACES II
25	Spatio-temporal patterns of C : N : P ratios in the northern Benguela upwelling system	Flohr, A., Van Der Plas, A.K., Emeis, K.-C., Mohrholz, V., Rixen, T.	Biogeosciences	11	3	885	897	2014	3.753	PACES II
26	Computation of nitrate concentrations in coastal water using an in situ ultraviolet spectrophotometer: Behavior of different computation methods in a case study and at a steep salinity gradient in the southern north sea	Frank, C., Meier, D., Voß, D., Zielinski, O.	Methods in Oceanography	9		34	43	2014		Scopus PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
27	Investigating hypoxia in aquatic environments: Diverse approaches to addressing a complex phenomenon	Friedrich, J., Janssen, F., Aleynik, D., Bange, H.W., Boltacheva, N., Çagatay, M.N., Dale, A.W., Etiope, G., Erdem, Z., Geraga, M., Gilli, A., Gomoiu, M.T., Hall, P.O.J., Hansson, D., He, Y., Holtappels, M., Kirf, M.K., Kononets, M., Kononov, S., Lichtschlag, A., Livingstone, D.M., Marinaro, G., Mazlumyan, S., Naeher, S., North, R.P., Papatheodorou, G., Pfannkuche, O., Prien, R., Rehder, G., Schubert, C.J., Soltwedel, T., Sommer, S., Stahl, H., Stanev, E.V., Teaca, A., Tengberg, A., Waldmann, C., Wehrli, B., Wenzhöfer, F.	Biogeosciences	11	4	1215	1259	2014	3.753	PACES II
28	Evidence of parallel denitrification and nitrite oxidation in the OZD of the Arabian Sea from paired stable isotopes of nitrate and nitrite	Gaye B., Nagel B., Daehnke K.	Global Biogeochemical Cycles	27	4	1059	1071	2013	4.528	PACES II
29	Simulating storm flooding maps over HafenCity under present and sea level rise scenarios	Ge J., Much D., Kappenberg, J.	Journal of Flood Risk Management	7	4	319	331	2014	1.133	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
30	High-resolution atmospheric reconstruction for Europe 1948-2012: CoastDat2	Geyer, B.	Earth System Science Data	6	1	147	164	2014	Scopus	PACES II
31	Distinct microbial communities associated with buried soils in the siberian tundra	Gittel, A., Bárta, J., Kohoutová, I., Mikutta, R., Owens, S., Gilbert, J., Schneckner, J., Wild, B., Hannisdal, B., Maerz, J., Lashchinskiy, N., Čapek, P., Šantrůčková, H., Gentsch, N., Shibistova, O., Guggenberger, G., Richter, A., Torsvik, V.L., Schleper, C., Urich, T.	ISME Journal	8	4	841	853	2014	9.296	PACES II
32	North Sea wave conditions: An analysis of four transient future climate realizations	Groll, N., Grabemann, I., Gaslikova, L.	Ocean Dynamics	64	1	1	12	2014	1.683	PACES II
33	Atmosphere-ice forcing in the transpolar drift stream: Results from the DAMOCLES ice-buoy campaigns 2007-2009	Haller, M., Brümmer, B., Müller, G.	Cryosphere	8	1	275	288	2014	4.374	PACES II
34	Ocean colour remote sensing in the southern laptev sea: Evaluation and applications	Heim, B., Abramova, E., Doerffer, R., Günther, F., Hölemann, J., Kraberg, A., Lantuit, H., Loginova, A., Martynov, F., Overduin, P.P., Wegner, C.	Biogeosciences	11	15	4191	4210	2014	3.753	PACES II
35	Eight-hundred years of summer temperature variations in the southeast of the Iberian Peninsula reconstructed from tree rings	I. Dorado-Liñán, E. Zorita, J. F. González-Rouco, I. Heinrich, F. Campello, L. Andreu-Hayles, E. Muntán, E. Gutiérrez	Climate Dynamics	44	(1-2)	75	93	2014	4.234	PACES II



No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
36	Erratum to: Eight-hundred years of summer temperature variations in the southeast of the Iberian Peninsula reconstructed from tree rings	I. Dorado-Liñán, E. Zorita, J. F. González-Rouco, I. Heinrich, F. Campello, L. Andreu-Hayles, E. Muntán, E. Gutiérrez	Climate Dynamics					2014	4.234	PACES II
37	Development and validation of a coupled model system in the Baltic region- BALTIMOS	Jacob, D.	Theoretical and Applied Climatology					2014	1.742	PACES II / CS2.0
38	Cyanobacterial bloom termination: the disappearance of Panktothrix rubescens from Lake Bourget (France) after restoration	Jacquet, S., Kerimoglu, O., Rimet, F.	Freshwater Biology	59	12	2472	2487	2014	2.905	PACES II
39	Progress on understanding atmospheric mercury hampered by uncertain measurements	Jaffe, D.A., Lyman, S., Amos, H.M., Gustin, M.S., Huang, J., Selin, N.E., Levin, L., Ter Schure, A., Mason, R.P., Talbot, R., Rutter, A., Finley, B., Jaeglé, L., Shah, V., McClure, C., Ambrose, J., Gratz, L., Lindberg, S., Weiss-Penzias, P., Sheu, G.-R., Feddersen, D., Horvat, M., Dastoor, A., Hynes, A.J., Mao, H., Sonke, J.E., Slemr, F., Fisher, J.A., Ebinghaus, R., Zhang, Y., Edwards, G.	Environmental Science and Technology	48	13	7204	7206	2014	1.794	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
40	Challenges for marine spatial planning in the context of multiple sea uses, policy arenas and actors based on experiences from the German North Sea	Kannen A.	Regional Environmental Change	14	6	2139	2150	2014	2.260	PACES II
41	Hydrological fronts seen in visible and infrared MODIS imagery of the Black Sea	Karimova, S.	International Journal of Remote Sensing					2014	1.359	PACES II
42	Establishing an agenda for social studies research in marine renewable energy	Kerr, S., Watts, L., Colton, J., Conway, F., Hull, A., Johnson, K., Jude, S., Kannen, A., MacDougall, S., McLachlan, C., Potts, T., Vergunst, J.	Energy Policy	67		694	702	2014	2.696	PACES II
43	Comment on "Trends and low frequency variability of extra-tropical cyclone activity in the ensemble of twentieth century reanalysis" by Xiaolan L. Wang, Y. Feng, G. P. Compo, V. R. Swail, F. W. Zwiers, R. J. Allan, and P. D. Sardeshmukh, Climate Dynamics, 2012	Krueger, O., Feser, F., Bärring, L., Kaas, E., Schmith, T., Tuomenvirta, H., von Storch, H.	Climate Dynamics	42	3-4	1127	1128	2014	4.619	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
44	Regional climate model sensitivities to parametrizations of convection and non-precipitating subgrid-scale clouds over South America	Lange, S., Rockel, B., Volkholz, J., Bookhagen, B.	Climate Dynamics					2014	4.619	PACES II
45	Progressive decoupling between phytoplankton growth and microzooplankton grazing during an iron-induced phytoplankton bloom in the Southern Ocean (EIFEX)	Latasa, M., Henjes, J., Scharek, R.	Marine Ecology Progress Series	513		39	50	2014	2.640	PACES II
46	Molecular biomarkers in gray seals ( <i>Halichorus grypus</i> ) to evaluate pollutant exposure, health and immune status	Lehnert K., Mueller S., Weirup, L.	Marine Pollution Bulletin	88	1-2	311	318	2014	2.793	PACES II
47	Increase in parasite burden and associated pathology in harbour porpoises ( <i>Phocoena phocoena</i> ) in West Greenland	Lehnert, K.; Seibel, H.; Hasselmeier, I.; Wohlsein, P.; Iversen, M.; Nielsen, N. H.; Heide-Jorgensen, M. P.; Prenger-Berninghoff, E.; Siebert, U.	POLAR BIOLOGY	37	3	321	331	2014	2.071	PACES II
48	On the sensitivity of the simulated European Neolithic transition to climate extremes	Lemmen, C., Wirtz, KW.	Journal of Archaeological Science	51		65	72	2014	2.139	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
49	Comparative biogeochemistry-ecosystem-human interactions on dynamic continental margins	Levin, L.A., Liu, K.-K., Emeis, K.-C., Breitburg, D.L., Cloern, J., Deutsch, C., Giani, M., Goffart, A., Hofmann, E.E., Lachkar, Z., Limburg, K., Liu, S.-M., Montes, E., Naqvi, W., Ragueneau, O., Rabouille, C., Sarkar, S.K., Swaney, D.P., Wassman, P., Wishner, K.F.	Journal of Marine Systems					2014	2.476	PACES II
50	Morphodynamic processes of the Elbe River estuary, Germany: The Coriolis effect, tidal asymmetry and human dredging	Li, M., Ge, J., Kappenberg, J., Much, D., Nino, O., Chen, Z.	Frontiers of Earth Science	8	2	181	189	2014	0.516	PACES II
51	Assessment of the summer-autumn bloom in the Bohai Sea using satellite images to identify the roles of wind mixing and light conditions	Liu, F., Su, J., Moll, A., Krasemann, H., Chen, X., Pohlmann, T., Wirtz, K.	Journal of Marine Systems	129		303	317	2014	2.476	PACES II
52	Carbon monitoring system flux estimation and attribution: Impact of ACOS-GOSAT XCO <sub>2</sub> sampling on the inference of terrestrial biospheric sources and sinks	Liu, J., Bowman, K.W., Lee, M., Henze, D.K., Bousseres, N., Brix, H., Collatz, G.J., Menemenlis, D., Ott, L., Pawson, S., Jones, D., Nassar, R.	Tellus, Series B: Chemical and Physical Meteorology	66	1			2014		Scopus PACES II
53	Preface - "Biogeochemistry-ecosystem interaction on changing continental margins in the Anthropocene"	Liu, K.-K., Emeis, K.-C., Levin, L.A., Naqvi, W., Roman, M.	Journal of Marine Systems					2014	2.476	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
54	Multiple oceanographic HF surface-wave radars applied to maritime surveillance	Maresca, S., Braca, P., Grasso, R., Horstmann, J.	Fusion 2014 - Proceedings 17th International Conference on Information Fusion					2014	Scopus	PACES II
55	A network of HF surface wave radars for maritime surveillance: Preliminary results in the German Bight	Maresca, S., Braca, P., Horstmann, J., Grasso, R.	ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing - Proceedings			6077	6081	2014	Scopus	PACES II
56	Maritime surveillance using multiple high-frequency surface-wave radars	Maresca, S., Braca, P., Horstmann, J., Grasso, R.	IEEE Transactions on Geoscience and Remote Sensing	52	8	5056	5071	2014	2.933	PACES II
57	The Relation of the Planetary Boundary Layer Height to the Vertical Aerosol Distribution in Chemistry Transport Models	Matthias, Volker; Aulinger, Armin; Bieser, Johannes; Quante, Markus	AIR POLLUTION MODELING AND ITS APPLICATION XXII			553	557	2014	Scopus	PACES II
58	Impact of measurement uncertainties on determination of chlorophyll-specific adsorption coefficient for marine phytoplankton	McKee, D., Röttgers, R., Neukermans, G., Calzado, V.S., Trees C., Ampolo-Rella, M., Neil, C., Cunningham, A.	Journal of Geophysical Research C: Oceans	119	12	9013	9025	2014	3.440	PACES II
59	Ensemble modeling of the Baltic Sea ecosystem to provide scenarios for management	Meier, H.E.M., Andersson, H.C., Arheimer, B., Donnelly, C., Eilola, K., Gustafsson, B.G., Kotwicki, L., Neset, T.-S., Niiranen, S., Piwowarczyk, J., Savchuk, O.P., Schenk, F., Węśławski, J.M., Zorita, E.	Ambio	43	1	37	48	2014	2.973	PACES II
60	An Earth System Science program for the Baltic Sea region	Meier, H.E.M., Rutgersson, A., Reckermann, M.	Eos	95	13	109	110	2014	Scopus	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
61	Flow of sewage sludge-borne phthalate esters (PAEs) from human release to human intake: Implication for risk assessment of sludge applied to soil	Meng, X.-Z., Wang, Y., Xiang, N., Chen, L., Liu, Z., Wu, B., Dai, X., Zhang, Y.-H., Xie, Z., Ebinghaus, R.	Science of the Total Environment	476-477		242	249	2014	3.163	PACES II
62	Predicting spatial kelp abundance in shallow coastal waters using the acoustic ground discrimination system RoxAnn	Mielck, F., Bartsch, I., Hass, H.C., Wöflf, A.-C., Bürk, D., Betzler, C.	Estuarine, Coastal and Shelf Science	143		1	11	2014	2.253	PACES II
63	Risk assessment of estuaries under climate change: Lessons from Western Europe	Monbaliu, J., Chen, Z., Felts, D., Ge, J., Hissel, F., Kappenberg, J., Narayan, S., Nicholls, R.J., Ohle, N., Schuster, D., Sothmann, J., Willems, P.	Coastal Engineering	87		32	49	2014	2.062	PACES II
64	Long-term ferry-based observations of the suspended sediment fluxes through the Marsdiep inlet using acoustic Doppler current profilers	Nauw, J.J., Merckelbach, L.M., Ridderinkhof, H., van Aken, H.M.	Journal of Sea Research	87		17	29	2014	1.855	PACES II
65	Marine litter ensemble transport simulations in the southern North Sea	Neumann, D., Callies, U., Matthies, M.	Marine Pollution Bulletin					2014		Scopus PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
66	An overview of ecological status, vulnerability and future perspectives of European large shallow, semi-enclosed coastal systems, lagoons and transitional waters	Newton, A., Icely, J., Cristina, S., Brito, A., Cardoso, A.C., Colijn, F., Riva, S.D., Gertz, F., Hansen, J.W., Holmer, M., Ivanova, K., Leppäkoski, E., Canu, D.M., Mocenni, C., Mudge, S., Murray, N., Pejrup, M., Razinkovas, A., Reizopoulou, S., Pérez-Ruzafa, A., Schernewski, G., Schubert, H., Carr, L., Solidoro, C., PierluigiViaroli, Zaldívar, J.-M.	Estuarine, Coastal and Shelf Science	140		95	122	2014	2.253	PACES II
67	The tidal asymmetries and residual flows in Ems Estuary	Pein, J., Stanev, E.V., Zhang, Y.J.	Ocean Dynamics	64	12	1719	1741	2014	1.683	PACES II
68	FerryBox systems: State-of-the-art in Europe and future development	Petersen, W.	Journal of Marine Systems					2014	2.476	PACES II
69	Improving science and policy in managing land-based sources of pollution	Ramachandran, R., Ramachandran, P., Lowry, K., Kremer, H., Lange, M.	Environmental Development	11		4	18	2014		Scopus PACES II
70	Coast as Heimat - Perceptions and sustainable regional development on the North Sea Coast and the Elbe estuary [Heimat Küste: Wahrnehmung durch die Bevölkerung und nachhaltige Regionalentwicklung an Nordseeküste und Tideelbe]	Ratter, B.M.W., Phiupp, K., Weig, B.	Geographische Rundschau	66	3	22	28	2014		Scopus PACES II
71	Seasonal and interannual variations in the nitrogen cycle in the Arabian Sea	Rixen, T., Baum, A., Gaye, B.	Biogeosciences	11	20	5733	5747	2014	3.753	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
72	Mass-specific light absorption coefficients of natural aquatic particles in the near-infrared spectral region	Röttgers, R., Dupouy, C., Taylor, B.B., Bracher, A., Woźniak, S.B.	Limnology and Oceanography	59	5	1449	1460	2014	Scopus	PACES II
73	Suspended matter concentrations in costal waters: Methodological improvements to quantify individual measurment uncertainly	Röttgers, R., Heymann, K.	Estuarine, Coastal and Shelf Science	151		148	155	2014	2.253	PACES II
74	Temperature and salinity correction coefficients for light absorption by water in the visible to infrared spectral region	Röttgers, R., McKee, D. Utschig, C.	Optics Express	22	21	25093	25108	2014	3.525	PACES II
75	Observed changes and variability of atmospheric in the Baltic Sea region during the last 200 years	Rutgersson, A., Jaagus, J., Schenk, F.	Climate Research	61	2	5707	5732	2014	2.707	PACES II
76	Organic matter degradation in the German Bight/SE North Sea: Implications from stable nitrogen isotopes and amino acids	Serna A., Lahajnar, N., Paetsch, J.	Marine Chemistry	166		103	113	2014	3.200	PACES II
77	The broadcast spawning Caribbean shipworm, <i>Teredothra dominicensis</i> (Bivalvia, Teredinidae), has invaded and become established in the eastern Mediterranean Sea	Shipway, R., Borges, L.M.S., Müller, J., Cragg, S.M.	Biological Invasions	16	10	2037	2048	2014	Scopus	PACES II



No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
78	Mercury plumes in the global upper troposphere observed during flights with the CARIBIC observatory from may 2005 until june 2013	Slemr, F., Weigelt, A., Ebinghaus, R., Brenninkmeijer, C., Baker, A., Schuck, T., Rauthe-Schöch, A., Riede, H., Leedham, E., Hermann, H., Van Velthoven, P., Oram, D., O'Sullivan, D., Dyroff, C., Zahn, A., Ziereis, H.	Atmosphere	5	2	342	369	2014	1.048	PACES II
79	Leaving misleading legacies behind in plankton ecosystem modelling	Smith, S.L., Merico, A., Wirtz, K.W., Pahlow, M.	Journal of Plankton Research	36	3	613	620	2014	2.263	PACES II
80	Double-diffusive interfaces in Lake Kivu reproduced by direct numerical simulations	Sommer, T., Carpenter, J.R., Wüest, A.	Geophysical Research Letters	41	14	5114	5121	2014		Scopus PACES II
81	The Potential of Current- and Wind-Driven Transport for Environmental Management of the Baltic Sea	Soomere, Tarmo; Doos, Kristofer; Lehmann, Andreas; Meier, H. E. Markus; Murawski, Jens; Myrberg, Kai; Stanev, Emil	AMBIO	43	1	94	104	2014	2.973	PACES II
82	Tidal wave transformations in the German Bight	Stanev, E.V., Al-Nadhairi, R., Staneva, J., Schulz-Stellenfleth, J., Valle-Levinson, A.	Ocean Dynamics	64	7	951	968	2014	1.683	PACES II
83	Atmospheric mercury speciation and mercury in snow over time at Alert, Canada	Steffen, A., Bottenheim, J., Cole, A., Ebinghaus, R., Lawson, G., Leaitch, W.R.	Atmospheric Chemistry and Physics	14	5	2219	2231	2014	5.298	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
84	A violanet midlatitude storm in northern Germany and Denmark, 28 october 2013	Storch v. H., Feser, F., Haeseler, S.	Bulletin of the American Meteorological Society	95	9	76	78	2014	11.574	PACES II
85	Storm surges: Phenomena, forecasting and scenarios of change	Storch v.H.	Mechanics for the World: Proceedings of the 23rd International Congress of Theoretical and Applied Mechanics, ICTAM2012	10		356	362	2014		- PACES II
86	Regional climate model simulations for Europe at 6 and 0.2 k BP: Sensitivity to changes in anthropogenic deforestation	Strandberg, G., Kjellström, E., Poska, A., Wagner, S., Gaillard, M.-J., Trondman, A.-K., Mauri, A., Davis, B.A.S., Kaplan, J.O., Birks, H.J.B., Bjune, A.E., Fyfe, R., Giesecke, T., Kalnina, L., Kangur, M., Van Der Knaap, W.O., Kokfelt, U., Kuneš, P., Lataowa, M., Marquer, L., Mazier, F., Nielsen, A.B., Smith, B., Seppä, H., Sugita, S.	Climate of the Past	10	2	661	680	2014	3.482	PACES II
87	Characterization of the cytosolic distribution of priority pollutant metals and metalloids in the digestive gland cytosol of marine mussels: Seasonal and spatial variability	Strižak, T., Ivanković, D., Pröfrock, D., Helmholtz, H., Cindrić, A.-M., Erk, M., Prange, A.	Science of the Total Environment	470-471		159	170	2014	3.163	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
88	Brominated flame retardants and Dechloranes in European and American eels from glass to silver life stages	Sühring, R., Byer, J., Freese, M.	Chemosphere	116		104	111	2014	3.499	PACES II
89	Effects of entrainment and mixing on droplet size distributions in warm cumulus clouds	Tölle, M.H., Krueger, S.K.	Journal of Advances in Modeling Earth Systems	6	2	281	299	2014	5.149	PACES II
90	Occurrence of the antidiabetic drug Metformin and its ultimate transformation product Guanylurea in several compartments of the aquatic cycle	Trautwein, C., Berset, J.-D., Wolschke, H., Kümmerer, K.	Environment International	70		203	212	2014	5.664	PACES II
91	Evidence for warm and humid Mid-Holocene episode in the Aegean and northern Levantine Seas (Greece, NE Mediterranean)	Triantaphyllou, M. V., Gogou, A., Bouloubassi, I., Emeis, K.C.	Regional Environmental Change	14	5	1697	1712	2014	2.260	PACES II
92	Coping with persistent environmental problems: systemic delays in reducing eutrophication of the Baltic Sea	Varjopuro, R., Andrulewicz, E., Blenckner, T., Dolch, T., Heiskanen, A.S., Pihlajamäki, M., Brandt, U.S., Valman, M., Gee, K., Potts, T.	Ecology and Society	19		4	Article 48	2014	2.669	PACES II
93	Transport of perfluoroalkyl acids in a water-saturated sediment column investigated under near-natural conditions	Vierke, L., Möller, A., Klitzke, S.	Environmental Pollution	186		7	13	2014	3.902	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
94	Accumulation of perfluoroalkyl compounds in Tibetan mountain snow: Temporal patterns from 1980 to 2010	Wang, X., Halsall, C., Codling, G., Xie, Z., Xu, B., Zhao, Z., Xue, Y., Ebinghaus, R., Jones, K.C.	Environmental Science and Technology	48	1	173	181	2014	1.794	PACES II
95	Atmospheric concentrations and gas/particle partitioning of neutral poly- and perfluoroalkyl substances in northern German coast	Wang, Z., Xie, Z., Möller, A., Mi, W., Wolschke, H., Ebinghaus, R.	Atmospheric Environment	95		207	213	2014	3.062	PACES II
96	Changing extreme sea levels along European coasts	Weisse, R., Bellafiore, D., Menéndez, M., Méndez, F., Nicholls, R.J., Umgiesser, G., Willems, P.	Coastal Engineering	87		4	14	2014	2.062	PACES II
97	The year-long unprecedented European heat and drought of 1540 - a worst case	Wetter, O., Pfister, C., Werner, J.P., Zorita, E., Wagner, S., Seneviratne, S.I., Herget, J., Grünewald, U., Luterbacher, J., Alcoforado, M.-J., Barriendos, M., Bieber, U., Brázdil, R., Burmeister, K.H., Camenisch, C., Contino, A., Dobrovolný, P., Glaser, R., Himmelsbach, I., Kiss, A., Kotyza, O., Labbé, T., Limanówka, D., Lützenburger, L., Nordl, Ø., Pribyl, K., Retsö, D., Riemann, D., Rohr, C., Siegfried, W., Söderberg, J., Spring, J.-L.	Climatic Change	125	3-4	349	363	2014	4.622	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
98	Scientific concepts for the monitoring of the ecological state of the German coastal waters [Wissenschaftliche Konzepte für ein Monitoring des ökologischen Zustands des deutschen Küstenmeeres]	Winter, C., Bartholomä, A., Capperucci, R., Callies, U., Heipke, C., Schmidt, A., Hillebrand, H., Reimers, C., Bremer, P., Weiler, R., Herrling, G.	Wasser und Abfall	16	7-8	21	26	2014	Scopus	PACES II
99	A biomechanical and optimality-based derivation of prey-size dependencies in planktonic prey selection and ingestion rates	Wirtz, K.W.	Marine Ecology Progress Series	507		81	94	2014	Scopus	PACES II
100	Assessment of North Sea phytoplankton via molecular sensing: A method evaluation	Wollschläger, J., Nicolaus, A., Wiltshire, K.H., Metfies, K.	Journal of Plankton Research	36	3	695	708	2014	2.263	PACES II
101	Performance of absorption coefficient measurements for the in situ determination of chlorophyll-a and total suspended matter	Wollschläger, J., Röttgers, R., Petersen, W., Wiltshire, K.H.	Journal of Experimental Marine Biology and Ecology	453		138	147	2014	2.475	PACES II
102	Characterization and variability of particle size distributions in Hudson Bay, Canada	Xi, H., Larouche, P., Tang, S., Michel, C.	Journal of Geophysical Research: Oceans	119	6	3392	3406	2014	3.440	PACES II
103	Retrieving hurricane wind speeds using cross-polarization C-band measurements	Zadelhoff, G.-J.V., Stoffelen, A., Vachon, P.W., Wolfe, J., Horstmann, J., Belmonte Rivas, M.	Atmospheric Measurement Techniques	7	2	437	449	2014	3.206	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
104	Holocene morphogenesis at the southern Baltic Sea: Simulation of multi-scale processes and their interactions for the Darss-Zingst peninsula	Zhang, W., Harff, J., Schneider, R., Meyer, M., Zorita, E., Hünicke, B.	Journal of Marine Systems	129		4	18	2014	2.476	PACES II
105	Seasonal variations and spatial distributions of perfluoroalkyl substances in the rivers Elbe and lower Weser and the North Sea	Zhao, Z., Xie, Z., Tang, J., Sturm, R., Chen, Y., Zhang, G., Ebinghaus, R.	Chemosphere					2014	3.499	PACES II
106	Selected current-use pesticides (CUPs) in coastal and offshore sediments of Bohai and Yellow seas	Zhong, G., Tang, J., Xie, Z., Mi, W., Chen, Y., Möller, A., Sturm, R., Zhang, G., Ebinghaus, R.	Environmental Science and Pollution Research			1	9	2014	2.757	PACES II
107	Selected current-use and historic-use pesticides in air and seawater of the Bohai and Yellow Seas, China	Zhong, G., Tang, J., Xie, Z., Möller, A., Zhao, Z., Sturm, R., Chen, Y., Tian, C., Pan, X., Qin, W., Zhang, G., Ebinghaus, R.	Journal of Geophysical Research: Atmospheres	119	2	1073	1086	2014	3.440	PACES II
108	Evaluation of Arctic Land Snow Cover Characteristics, Surface Albedo, and Temperature during the Transition Seasons from Regional Climate Model Simulation and Satellite Data	Zhou, X., Matthes, H., Rinke, A., Rockel, B.	Advances in Meteorology					2014	1.380	PACES II

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
1	Perspectives in Modelling Climate-Hydrology Interactions	Hagemann, S., Blome, T., Saeed, F., Stacke, T.	Surveys in Geophysics	35	3	739	764	2014	5.112	CS2.0
2	EURO-CORDEX: New high-resolution climate change projections for European impact research	Jacob, D., Petersen, J., Eggert, B., Alias, A., Christensen, O.B., Bouwer, L.M., Braun, A., Colette, A., Déqué, M., Georgievski, G., Georgopoulou, E., Gobiet, A., Menut, L., Nikulin, G., Haensler, A., Hempelmann, N., Jones, C., Keuler, K., Kovats, S., Kröner, N., Kotlarski, S., Kriegsman, A., Martin, E., van Meijgaard, E., Moseley, C., Pfeifer, S., Preuschmann, S., Radermacher, C., Radtke, K., Rechid, D., Rounsevell, M., Samuelsson, P., Somot, S., Soussana, J.-F., Teichmann, C., Valentini, R., Vautard, R., Weber, B., Yiou, P.	Regional Environmental Change	14	2	563	578	2014	2.260	CS2.0

No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
3	Erratum to: EURO-CORDEX: New high-resolution climate change projections for European impact research (Reg Environ Change, 10.1007/s10113-013-0499-2)	Jacob, D., Petersen, J., Eggert, B., Alias, A., Christensen, O.B., Bouwer, L.M., Braun, A., Colette, A., Déqué, M., Georgievski, G., Georgopoulou, E., Gobiet, A., Menut, L., Nikulin, G., Haensler, A., Hempelmann, N., Jones, C., Keuler, K., Kovats, S., Kröner, N., Kotlarski, S., Kriegsmann, A., Martin, E., van Meijgaard, E., Moseley, C., Pfeifer, S., Preuschmann, S., Radermacher, C., Radtke, K., Rechid, D., Rounsevell, M., Samuelsson, P., Somot, S., Soussana, J.-F., Teichmann, C., Valentini, R., Vautard, R., Weber, B., Yiou, P.	Regional Environmental Change	14	2	579	581	2014	Scopus	CS2.0
4	Climate Services to Improve Public Health.	Jancloes, M.; Thomson, M.; Manez Costa, M.; Hewitt, C.; Corvalan, C.; Dinku, T.; Lowe, R.; Hayden, M.	International Journal of Environmental Research and Public Health	11	5	4555	4559	2014	1.993	CS2.0
5	Effects of dust aerosols on tropospheric chemistry during a typical pre-monsoon season dust storm in northern India	Kumar, R., Barth, M.C., Madronich, S., Naja, M., Carmichael, G.R., Pfister, G.G., Knote, C., Brasseur, G.P., Ojha, N., Sarangi, T.	Atmospheric Chemistry and Physics	14	13	6813	6834	2014	5.298	CS2.0



No.	Title	Authors	Source title	Volume	Issue	Page start	Page end	Year	Impact-Factor	HGF-Programme
6	WRF-Chem simulations of a typical pre-monsoon dust storm in northern India: Influences on aerosol optical properties and radiation budget	Kumar, R., Barth, M.C., Pfister, G.G., Naja, M., Brasseur, G.P.	Atmospheric Chemistry and Physics	14	5	2431	2446	2014	5.298	CS2.0
7	A role for calcium hydroxide and dolomite in water: Acceleration of the reaction under ultraviolet light	Nagase, H., Tsujino, H., Kurihara, D., Saito, H., Kawase, M.	Chemosphere	101		8	14	2014	3.499	CS2.0
8	The European climate under a 2 °c global warming	Vautard, R., Gobiet, A., Sobolowski, S., Kjellström, E., Stegehuis, A., Watkiss, P., Mendlik, T., Landgren, O., Nikulin, G., Teichmann, C., Jacob, D.	Environmental Research Letters	9	3			2014	4.090	CS2.0