

Lfd. Nr.	Title	Author	Source	Volume	Issue	Begin-page	Endpage	Publ.-Year	Impact-Factor	HGF-Programm
1	Green chemistry and nanofabrication in a levitated Leidenfrost drop	Abdelaziz, R.; Disci-Zayed, D.; Hedayati, M.K.; Poehls, J.-H.; Zillohu, A.U.; Erkartal, B.; Chakravadhanula, V.S.K.; Duppel, V.; Kienle, L.; Elbahri, M.	Nature Communications [Online Ressource]	4		2400		2013	10.015	AEM
2	Performance of pulsed constant current silicate-based PEO coating on pure magnesium in simulated body fluid	Alabbasi A., Bobby Kannan M., Walter R., Stormer M., Blawert C.	Materials Letters	106		18	21	2013	2.224	AEM / PNI
3	Functionalization and Polymerization on the CNT Surfaces	Albuerne, Julio; Zenkel, Christian; Munirasu, Selvaraj	CURRENT ORGANIC CHEMISTRY	17	17	1867	1879	2013	3.039	AEM
4	Atomic level observations of mechanical damage in shot peened TiAl	Appel F.	TMS Annual Meeting			853	860	2013	Scopus	AEM
5	Role of vacancies in work hardening and fatigue of TiAl alloys	Appel, F.; Herrmann, D.; Fischer, F. D.; Svoboda, J.; Kozeschnik, E.	INTERNATIONAL JOURNAL OF PLASTICITY	42		83	100	2013	4.356	AEM
6	A Revised Exposition of the Green-Naghdi Theory of Heat Propagation	Bargmann S., Favata A., Podio-Guidugli P.	Journal of Elasticity			1	12	2013	1.038	AEM
7	Towards bio-inspired engineering materials: Modeling and simulation of the mechanical behavior of hierarchical bovine dental structure	Bargmann S., Scheider I., Xiao T., Yilmaz E., Schneider G.A., Huber N.	Computational Materials Science	79		390	401	2013	1.878	AEM
8	Computational modelling of submicron-sized metallic glasses	Bargmann, S.; Xiao, T.; Klusemann, B.	Philosophical Magazine	94	1	1	19	2013	1.596	AEM
9	Microscopic temperature field prediction during adiabatic loading using gradient extended crystal plasticity	Bargmann, Swantje; Ekh, Magnus	INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES	50	6	899	906	2013	1.871	AEM
10	On energy and entropy influxes in the Green-Naghdi Type III theory of heat conduction	Bargmann, Swantje; Favata, Antonino; Podio-Guidugli, Paolo	PROCEEDINGS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES	469	2152			2013	9.737	AEM

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11	Functionalization of MWCNT with P(MMA-co-S) copolymers via ATRP: Influence on localization of MWCNT in SAN/PPE 40/60 blends and on rheological and dielectric properties of the composites	Bing Du, Ulrich A. Handge, Mona Wambach, Clarissa Abetz, Sofia Rangou, Volker Abetz,	Polymer	in print				2013	3.379	AEM
12	Friction Riveting of glass-fibre-reinforced polyetherimide composite and titanium grade 2 hybrid joints	Blaga, L.; Bancila, R.; dos Santos, J. F.; Amancio-Filho, S. T.	MATERIALS & DESIGN	50		825	829	2013	2.913	AEM
13	A hybrid variationally consistent homogenization approach based on Ritz's method	Bleier, N.; Mosler, J.	INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING	94	7	625	647	2013	2.056	AEM
14	In situ analysis of the tensile deformation mechanisms in extruded Mg-1Mn-1Nd (wt%)	Boehlert, C. J.; Chen, Z.; Chakkedath, A.; Gutierrez-Urrutia, I.; Llorca, J.; Bohlen, J.; Yi, S.; Letzig, D.; Perez-Prado, M. T.	PHILOSOPHICAL MAGAZINE	93	6	598	617	2013	1.596	AEM
15	Theoretical and Experimental Investigations of Flat Sheet Membrane Module Types for High Capacity Gas Separation Applications	Brinkmann, T.; Pohlmann, J.; Withalm, U.; Wind, J.; Wolff, T.	Chemie - Ingenieur - Technik	85	8	1240	1220	2013	0.698	AEM
16	Metallurgy and mechanical performance of AZ31 magnesium alloy friction spot welds	Campanelli, Leonardo Contri; Suhuddin, Uceu Fuad Hasan; Sette Antonialli, Armando Italo; dos Santos, Jorge Fernandez; de Alcantara, Nelson Guedes; Bolfarini, Claudemiro	JOURNAL OF MATERIALS PROCESSING TECHNOLOGY	213	4	515	521	2013	1.953	AEM
17	Influence of rheology and morphology on foaming of PS-b-PMMA diblock copolymers and their composites with modified silica nanoparticles	Chakkalakal, Golda Louis; Abetz, Clarissa; Vainio, Ulla; Handge, Ulrich A.; Abetz, Volker	POLYMER	54	15	3860	3873	2013	3.379	AEM / PNI
18	Effect of the Porosity of a Polymer of Intrinsic Microporosity (PIM) on Its Intrinsic Fluorescence	Chen, Shaohua; Yi, Wei; Duhamel, Jean; Heinrich, Kathleen; Bengtson, Gisela; Fritsch, Detlev	JOURNAL OF PHYSICAL CHEMISTRY B	117	17	5249	5260	2013	3.607	AEM
19	Experimental characterization of microstructure development during loading path changes in bcc sheet steels	Clausmeyer, T.; Gerstein, G.; Bargmann, S.; Svendsen, B.; van den Boogaard, A. H.; Zillmann, B.	JOURNAL OF MATERIALS SCIENCE	48	2	674	689	2013	2.163	AEM

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20	Double Stimuli-Responsive Isoporous Membranes via Post-Modification of pH-Sensitive Self-Assembled Diblock Copolymer Membranes	Clodt, Juliana Isabel; Filiz, Volkan; Rangou, Sofia; Buhr, Kristian; Abetz, Clarissa; Hoeche, Daniel; Hahn, Janina; Jung, Adina; Abetz, Volker	ADVANCED FUNCTIONAL MATERIALS	23	6	731	738	2013	9.765	AEM
21	Carbohydrates as Additives for the Formation of Isoporous PS-b-P4VP Diblock Copolymer Membranes	Clodt, Juliana Isabel; Rangou, Sofia; Schroeder, Anne; Buhr, Kristian; Hahn, Janina; Jung, Adina; Filiz, Volkan; Abetz, Volker	MACROMOLECULAR RAPID COMMUNICATIONS	34	2	190	194	2013	4.929	AEM
22	Mechanical modulation of reaction rates in electrocatalysis. In: Journal of Catalysis	Deng, Q.; Smetanin, M.; Weissmueller, J.	Journal of Catalysis	309		351	361	2014	5.787	AEM
23	High temperature deformation and microstructural features of TXA321 magnesium alloy: Correlations with processing map	Dharmendra C., Rao K.P., Prasad Y.V.R.K., Hort N., Kainer K.U.	Advanced Engineering Materials	15	8	761	766	2013	1.608	AEM
24	Hot workability analysis with processing map and texture characteristics of as-cast TX32 magnesium alloy	Dharmendra, C.; Rao, K. P.; Prasad, Y. V. R. K.; Hort, N.; Kainer, K. U.	JOURNAL OF MATERIALS SCIENCE	48	15	5236	5246	2013	2.163	AEM
25	Compression-creep response of magnesium alloy DieMag422 containing barium compared with the commercial creep-resistant alloys AE42 and MRI230D	Dieringa, H.; Huang, Y.; Wittke, P.; Klein, M.; Walther, F.; Dikovits, M.; Poletti, C.	Materials Science and Engineering A	585		430	438	2013	2.108	AEM
26	Polyacrylonitrile-MWCNT hybrids obtained by free radical polymerization in miniemulsions	Donescu, Dan; Corobea, Mihai Cosmin; Petcu, Cristian; Spataru, Catalin Ilie; Radovici, Constantin; Majeed, Shahid; Abetz, Volker	Journal of Polymer Research	20	9	1	10	2013	2.019	AEM
27	Influence of strain rate on the twin and slip activity of a magnesium alloy containing neodymium	Dudamell N.V., Hidalgo-Manrique P., Chakkedath A., Chen Z., Boehlert C.J., Galvez F., Yi S., Bohlen J., Letzig D., Perez-Prado M.T.	Materials Science and Engineering A	583		220	231	2013	2.108	AEM
28	Nanocomposites of Polystyrene-b-Poly(isoprene)-b-Polystyrene Triblock Copolymer with Clay-Carbon Nanotube Hybrid Nanoadditives	Enotiadis, Apostolos; Litina, Kiriaki; Gournis, Dimitrios; Rangou, Sofia; Avgeropoulos, Apostolos; Xidas, Panagiotis; Triantafyllidis, Kostas	JOURNAL OF PHYSICAL CHEMISTRY B	117	3	907	915	2013	3.607	AEM

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29	Development of a magnesium secondary alloy system for mixed magnesium post-consumer scrap	Fechner, Daniel; Blawert, Carsten; Hort, Norbert; Dieringa, Hajo; Kainer, Karl Ulrich	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	576		222	230	2013	2.108	AEM
30	Friction stir welding development of aluminium alloys for structural connections	Gabor, Ramona; dos Santos, Jorge F.	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE	14	1	64	71	2013	9.737	AEM
31	Investigation of carbides in Ti-45Al-5Nb-xC alloys ($0 \leq x \leq 1$) by transmission electron microscopy and high energy-XRD	Gabrisch, Heike; Stark, Andreas; Schimansky, Frank-Peter; Wang, Li; Schell, Norbert; Lorenz, Uwe; Pyczak, Florian	INTERMETALLICS	33		44	53	2013	1.857	AEM / PNI
32	Modification of polyisoprene-block-poly(vinyl trimethylsilane) block copolymers via hydrosilylation and hydrogenation, and their gas transport properties	Gacal B.N., Filiz V., Shishatskiy S., Rangou S., Neumann S., Abetz V.	Journal of Polymer Science, Part B: Polymer Physics	51	16	1252	1261	2013	2.221	AEM
33	The Influence of Magnesium Acetate on the Structure Formation of Polystyrene-block-poly(4-vinylpyridine)-Based Integral-Asymmetric Membranes	Gallei, Markus; Rangou, Sofia; Filiz, Volkan; Buhr, Kristian; Bolmer, Sabrina; Abetz, Clarissa; Abetz, Volker	MACROMOLECULAR CHEMISTRY AND PHYSICS	214	9	1037	1046	2013	2.386	AEM
34	Mechanochemical synthesis of NaBH ₄ starting from NaH-MgB ₂ reactive hydride composite system	Garroni, S.; Minella, C. Bonatto; Pottmaier, D.; Pistidda, C.; Milanese, C.; Marini, A.; Enzo, S.; Mulas, G.; Dornheim, M.; Baricco, M.; Gutfleisch, O.; Surinach, S.; Dolores Baro, M.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	38	5	2363	2369	2013	3.548	AEM
35	General and Localized Corrosion of Magnesium Alloys: A Critical Review	Ghali, E.; Dietzel, W.; Kainer, K.U.	Journal of Materials Engineering and Performance	22	10	2875	2891	2013	0.915	AEM
36	Design of a nitrogen-implanted titanium-based superelastic alloy with optimized properties for biomedical applications	Gordin D.M., Busardo D., Cimpean A., Vasilescu C., Hoche D., Drob S.I., Mitran V., Cornen M., Gloriant T.	Materials Science and Engineering C	33	7	4173	4182	2013	Scopus	AEM
37	Nanoconfined 2LiBH(4)-MgH ₂ -TiCl ₃ in carbon aerogel scaffold for reversible hydrogen storage	Gosalawit-Utke, Rapee; Milanese, Chiara; Javadian, Payam; Jepsen, Julian; Laipple, Daniel; Karmi, Fahim; Puzkiel, Julian; Jensen, Torben R.; Marini, Amedeo; Klassen, Thomas; Dornheim, Martin	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	38	8	3275	3282	2013	3.548	AEM / PNI

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38	Nanoconfined 2LiBH(4)-MgH ₂ for reversible hydrogen storages: Reaction mechanisms, kinetics and thermodynamics	Gosalawit-Utke, Rapee; Milanese, Chiara; Nielsen, Thomas K.; Karimi, Fahim; Saldan, Ivan; Pranzas, Klaus; Jensen, Torben R.; Marini, Amedeo; lassen, Thomas; Dornheim, Martin	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	38	4	1932	1942	2013	3.548	AEM / PNI
39	Cold Spraying of Ti ₂ AlC MAX-Phase Coatings	Gutzmann, H.; Gaertner, F.; Hoeche, D.; Blawert, C.; Klassen, T.	JOURNAL OF THERMAL SPRAY TECHNOLOGY	22	02. Mrz	406	412	2013	1.481	AEM
40	Modification of Polycarbonate and Glycol Modified Poly(ethylene terephthalate) by Addition of Silica-Nanoparticles Grafted with SAN Copolymer Using "Classical" and ARGET ATRP	Haase, Andreas; Hesse, Pascal; Brommer, Lars; Jacobs, Olaf; Abetz, Clarissa; Handge, Ulrich A.; Boschetti-de-Fierro, Adriana; Abetz, Volker	MACROMOLECULAR MATERIALS AND ENGINEERING	298	3	292	302	2013	2.338	AEM
41	Texture Weakening Effects in Ce-Containing Mg Alloys	Hadorn, J.P.; Mulay, R.P.; Hantzsche, K.; Yi, S.; Bohlen, J.; Letzig, D.; Agnew, S.R.	Metallurgical and Materials Transactions A	44	3	1566	1576	2013	1.627	AEM
42	PtBS-b-P4VP and PTMSS-b-P4VP Isoporous Integral-asymmetric Membranes with High Thermal and Chemical Stability	Hahn J. , Volkan Filiz, Sofia Rangou, Brigitte Lademann, Kristian Buhr, Juliana I. Clodt, Adina Jung, Clarissa Abetz, Volker Abetz,	Macromolecular Materials and Engineering					2013	2.338	AEM
										http://dx.doi.org/10.1002/mame.201300012
43	Structure formation of integral-asymmetric membranes of polystyrene-block-Poly(ethylene oxide)	Hahn, Janina; Filiz, Volkan; Rangou, Sofia; Clodt, Juliana; Jung, Adina; Buhr, Kristian; Abetz, Clarissa; Abetz, Volker	JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS	51	4	281	290	2013	2.221	AEM
44	Thermodynamic assessment and experimental study of MgGd alloys. In: Journal of Alloys and Compounds	HAMPL, M. ; Blawert, C. ; Silva Campos, M.R. ; Hort, N. ; Peng, Q. ; Kainer, K.U. ; Schmid-Fetzer, R.	Journal of Alloys and Compounds	581		166	177	2013	2.390	AEM
45	Joint Symposium of the German Rheological Society and the Polymer Processing Society (PPS-29) Fundamental and Applied Rheology	Handge, U.A.	Applied Rheology	23	5	310	311	2013	1.226	AEM
46	Geesthacht Polymer days: Rheology and mechanics of polymer materials	Handge, Ulrich	APPLIED RHEOLOGY	23	1	60	61	2013	1.226	AEM
47	Surface aspects of sol-gel derived hematite films for the photoelectrochemical oxidation of water	Herrmann-Geppert, Iris; Bogdanoff, Peter; Radnik, Joerg; Fengler, Steffen; Dittrich, Thomas; Fiechter, Sebastian	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	15	5	1389	1398	2013	3.829	AEM

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48	Effect of Nd additions on extrusion texture development and on slip activity in a Mg-Mn alloy	Hidalgo-Manrique P., Yi S.B., Bohlen J., Letzig D., Perez-Prado M.T.	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	44	10	4819	4829	2013	Scopus	AEM
49	Morphological control of helical structures of an ABC-type triblock terpolymer by distribution control of a blending homopolymer in a block copolymer microdomain	Higuchi, Takeshi, Hidekazu Sugimori, Xi Jiang, Song Hong, Kazuyuki Matsunaga, Takeshi Kaneko, Volker Abetz, Atsushi Takahara, Hiroshi Jinnai	Macromolecules	46	17	6991	6997	2013	5.521	AEM
50	Mikrogalvanische Korrosion am Magnesium-Aluminium System Detaillierte elektrochemische Einblicke mittels FEM-Simulationen - Microgalvanic Corrosion of the Magnesium-Aluminum System – Detailed Electrochemical Insights by FEM Simulations	Hoeche, D.; Isakovic	Chemie - Ingenieur - Technik	85	12	1951	1956	2013	0.698	AEM
51	Investigations on Ti-6Al-4V with gadolinium addition fabricated by metal injection moulding	Holm, M.; Ebel, T.; Dahms, M.	MATERIALS & DESIGN	51		943	948	2013	2.913	AEM
52	Biofunctionalized nanofibrous membranes as super separators of protein and enzyme from water	Homaieghar, Shahin; Dai, Tianhe; Elbahri, Mady	JOURNAL OF COLLOID AND INTERFACE SCIENCE	406		86	93	2013	3.172	AEM
53	Continuous Equilibrated Growth of Ordered Block Copolymer Thin Films by Electropray Deposition	Hu, Hanqiong; Rangou, Sofia; Kim, Myungwoong; Gopalan, Padma; Filiz, Volkan; Avgeropoulos, Apostolos; Osuji, Chinedum O.	ACS NANO	7	4	2960	2970	2013	12.062	AEM
54	Effects of Sn segregation and precipitates on creep response of Mg-Sn alloys	Huang, Y.; Dieringa, H.; Kainer, K. U.; Hort, N.	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	36	4	308	315	2013	0.861	AEM
55	A study on local thermal and strain phenomena of high-speed friction stir-processed Mg AZ31	Huetsch, L.L.; Herzberg, K.; dos Santos J.F.; Huber, N.	Welding in the world	57	4	515	521	2013	0.477	AEM
56	Increased Room Temperature Formability of Mg AZ31 by High Speed Friction Stir Processing	Huetsch, L.L.; Huetsch, J.; Herzberg, K.; dos Santos, J.F.; Huber, N.	Materials and Design	54		980	988	2013	2.913	AEM
57	Determination of average dislocation densities in metals by analysis of digitally processed transmission-electron microscopy images	Husser, E.; Clausmeyer, T.; Gershteyn, G.; Bargmann, S.	MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK	44	6	541	546	2013	0.505	AEM

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58	Compaction pressure influence on material properties and sorption behaviour of LiBH ₄ -MgH ₂ composite	Jepsen, Julian; Milanese, Chiara; Girella, Alessandro; Lozano, Gustavo A.; Pistidda, Claudio; von Colbe, Jose M. Bellosta; Marini, Amedeo; Klassen, Thomas; Dornheim, Martin	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	38	20	8357	8366	2013	3.548	AEM
59	Formation of Integral Asymmetric Membranes of AB Diblock and ABC Triblock Copolymers by Phase Inversion	Jung, Adina; Filiz, Volkan; Rangou, Sofia; Buhr, Kristian; Merten, Petra; Hahn, Janina; Clodt, Juliana; Abetz, Clarissa; Abetz, Volker	MACROMOLECULAR RAPID COMMUNICATIONS	34	7	610	615	2013	4.929	AEM
60	Deformation and orientation behavior of polystyrene-b-polybutadiene-b-poly(methyl methacrylate) triblock terpolymers: Influence of polybutadiene microstructures and the molar masses	Kabir, Rakibul; Albuerne, Julio; Simon, Peter F. W.; Filiz, Volkan; Abetz, Clarissa; Boettcher, Heinrich; Perlich, Jan; Abetz, Volker	POLYMER	54	2	673	684	2013	3.379	AEM
61	Cross-linking of Polymer of Intrinsic Microporosity (PIM-1) via nitrene reaction and its effect on gas transport property	Khan, M.M.; Bengtson, G.; Shishatskiy, S.; Gacal, B.N.; Rahman, M.M.; Neumann, S.; Filiz, V.; Abetz, V.	European Polymer Journal	49	12	4157	4166	2013	2.562	AEM
62	Enhanced gas permeability by fabricating mixed matrix membranes of functionalized multiwalled carbon nanotubes and polymers of intrinsic microporosity (PIM)	Khan, Muntazim M.; Filiz, Volkan; Bengtson, Gisela; Shishatskiy, Sergey; Rahman, Md. Mushfequr; Lillepaerg, Jelena; Abetz, Volker	JOURNAL OF MEMBRANE SCIENCE	436		109	120	2013	4.093	AEM
63	FEM modelling of a coaxial three-electrode test cell for electrochemical impedance spectroscopy in lithium ion batteries	Klink, Stefan; Hoeche, Daniel; La Mantia, Fabio; Schuhmann, Wolfgang	JOURNAL OF POWER SOURCES	240		273	280	2013	4.675	AEM
64	Mechanical behavior of nano scale Cu/PdSi multilayers	Knorr, I.; Cordero, N. M.; Lilleodden, E. T.; Volkert, C. A.	ACTA MATERIALIA	61	13	4984	4995	2013	3.941	AEM
65	Fast Escape of Hydrogen From Gas Cavities Around Corroding Magnesium Implants	Kuhlmann, J. ; Bartsch, I. ; Willbold, E. ; Schuchardt, S. ; Holz, O. ; Hort, N. ; Hoeche, D.	Acta Biomaterialia	9	10	8714	8721	2013	5.093	AEM
66	A combined experimental-numerical approach for elasto-plastic fracture of individual grain boundaries	Kupka, D.; Huber, N.; Lilleodden, E.T.	Journal of the Mechanics and Physics of Solids	64		455	467	2014	3.406	AEM
67	Nucleation kinetics of the γ -phase in a binary Mg-Al alloy	Lalpoor M., Dzwonczyk J.S., Hort N., Offerman S.E.	Magnesium Technology			259	262	2013	Scopus	AEM

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68	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			1	13	2013	Scopus	AEM / PNI
69	The effect of heat treatment on crack control and grain refinement in laser beam welded beta-solidifying TiAl-based alloy	Liu, J.; Dahmen, M.; Ventzke, V.; Kashaev, N.; Poprawe, R.	INTERMETALLICS	40		65	70	2013	1.857	AEM
70	Production, characterisation, and cytocompatibility of porous titanium-based particulate scaffolds	Luthringer B.J.C., Ali F., Akaichi H., Feyerabend F., Ebel T., Willumeit R.	Journal of Materials Science: Materials in Medicine			1	22	2013	2.163	AEM / PNI
71	Pilot tests in organophilic pervaporation: Membrane, module and simulation - An overall concept [Pilotversuche in der organophilen pervaporation: Membran, modul und simulation - Ein Gesamtkonzept]	Matuschewski H., Schiffmann P., Notzke H., Wolff T., Schedler U., Brinkmann T., Repke J.-U.	Chemie-Ingenieur-Technik	85	8	1201	1209	2013	Scopus	AEM
72	Experimental and numerical investigation of Mg alloy sheet formability	Mekonen M.N., Steglich D., Bohlen J., Stutz L., Letzig D., Mosler J.	Materials Science and Engineering A	586		204	214	2013	2.108	AEM
73	Magnesium Recycling: To the Grave and Beyond	Mendis C.I., Singh A.	JOM			1	2	2013	0.986	AEM
74	Influence of Ce addition on microstructure and mechanical properties of high pressure die cast AM50 magnesium alloy	Mert, Faruk; Ozdemir, Ahmet; Kainer, Karl Ulrich; Hort, Norbert	TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA	23	1	66	72	2013	0.917	AEM
75	Sign-inverted response of aluminum work function to tangential strain	chl, A.; Weissmueller, J.; Mueller	Journal of Physics: Condensed Matter	25	44			2013	0.757	AEM
76	Ca(BH ₄) ₂ + MgH ₂ : Desorption reaction and role of Mg on its reversibility	Minella C.B., Pistidda C., Garroni S., Nolis P., Baro M.D., Gutfleisch O., Klassen T., Bormann R., Dornheim M.	Journal of Physical Chemistry C	117	8	3846	3852	2013	4.814	AEM
77	Chemical State, Distribution, and Role of Ti- and Nb-Based Additives on the Ca(BH ₄) ₂ System	Minella, Christian Bonatto; Pellicer, Eva; Rossinyol, Emma; Karimi, Fahim; Pistidda, Claudio; Garroni, Sebastiano; Milanese, Chiara; Nolis, Pau; Dolores Baro, Maria; Gutfleisch, Oliver; Pranzas, Klaus P.; Schreyer, Andreas; Klassen, Thomas; Bormann, Ruediger; Dornheim, Martin	JOURNAL OF PHYSICAL CHEMISTRY C	117	9	4394	4403	2013	4.814	AEM / PNI

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78	Synthesis, characterization (molecular-morphological) and theoretical morphology predictions of linear triblock terpolymers containing poly(cyclohexadiene)	Misichronis, K.; Rangou, S.; Ashcraft, E.; Kumar, R.; Dadmun, M.; Sumpster, B. G.; Zafeiropoulos, N. E.; Mays, J. W.; Avgeropoulos, A.	POLYMER	54	5	1480	1489	2013	3.379	AEM
79	A Round Robin Test exercise on hydrogen absorption/desorption properties of a magnesium hydride based material	Moretto, P.; Zlotea, C.; Dolci, F.; Amieiro, A.; Bobet, J. -L.; Borgschulte, A.; Chandra, D.; Enoki, H.; De Rango, P.; Fruchart, D.; Jepsen, J.; Latroche, M.; Jansa, I. Llamas; Moser, D.; Sartori, S.; Wang, S. M.; Zan, J. A.	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	38	16	6704	6717	2013	3.548	AEM
80	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					2013	1.871	AEM
81	Microstructural refinement of boron-containing beta-solidifying gamma-titanium aluminide alloys through heat treatments in the beta phase	Oehring, M.; Stark, A.; Paul, J. D. H.; Lippmann, T.; Pyczak, F.	INTERMETALLICS	32		12	20	2013	1.857	AEM / PNI
82	High Molecular Weight Symmetrical Multiblock Copolymers: Synthesis by RAFT Polymerization and Characterization	Pafiti, Kyriaki S., Costas S. Patrickios, Clarissa Abetz, Volker Abetz	Journal of Polymer Science, Part A: Polymer Chemistry	in print					3.543	AEM
83	Styrene-vinyl pyridine diblock copolymers: Achieving high molecular weights by the combination of anionic and reversible addition-fragmentation chain transfer polymerizations	Pafiti, Kyriaki S.; Patrickios, Costas S.; Filiz, Volkan; Rangou, Sofia; Abetz, Clarissa; Abetz, Volker	JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY	51	1	213	221	2013	3.543	AEM
84	Structural study of a new B-rich phase obtained by partial hydrogenation of $2\text{NaH} + \text{MgB}_2$	Pistidda C., Napolitano E., Pottmaier D., Dornheim M., Klassen T., Baricco M., Enzo S.	International Journal of Hydrogen Energy	38	25	10479	10484	2013	3.548	AEM

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85	Sorption behavior of the MgH ₂ -Mg ₂ FeH ₆ hydride storage system synthesized by mechanical milling followed by sintering	Puszkiel, J.; Gennari, F.; Larochette, P.A.; Karimi, F.; Pistidda, Cl; Goslawit-Utke, R.; Jepsen, J.; Jensen, T.R.; Gundlach, C.; Bellosta von Colbe, J.; Klassen, T.; Dornheim, M.	International Journal of Hydrogen Energy	38	34	14618	14630	2013	3.548	AEM
86	Plastic deformation mechanisms in a crept L1(2) hardened Co-base superalloy	Pyczak, F.; Bauer, A.; Goeken, M.; Neumeier, S.; Lorenz, U.; Oehring, M.; Schell, N.; Schreyer, A.; Stark, A.; Symanzik, F.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	571		13	18	2013	2.108	AEM / PNI
87	Hierarchical Nested-Network Nanostructure by Dealloying	Qi, Z.; Weissmueller, J.	ACS Nano	7	7	5948	5954	2013	12.062	AEM
88	Hollow fiber spinning of block copolymers: Influence of spinning conditions on morphological properties	Radjabian, Maryam; Koll, Joachim; Buhr, Kristian; Handge, Ulrich A.; Abetz, Volker	POLYMER	54	7	1803	1812	2013	3.379	AEM
89	PEBAX (R) with PEG functionalized POSS as nanocomposite membranes for CO ₂ separation	Rahman, Md. Mushfequr; Filiz, Volkan; Shishatskiy, Sergey; Abetz, Clarissa; Neumann, Silvio; Bolmer, Sabrina; Khan, Muntazim Munir; Abetz, Volker	JOURNAL OF MEMBRANE SCIENCE	437		286	297	2013	4.093	AEM
90	Asymmetric mechanical properties and tensile behaviour prediction of aluminium alloy 5083 friction stir welding joints	Rao, D.; Huber, K.; Heerens, J.; dos Santos, J. F.; Huber, N.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	565		44	50	2013	2.108	AEM
91	Compressive strength and hot deformation mechanisms in as-cast Mg-4Al-2Ba-2Ca (ABaX422) alloy	Rao, K.P.; Ip, H.Y.; Suresh, K.; Prasad, Y.V.R.K.; Wu, C.M.L.; Hort, N.; Kainer, K.U.	Philosophical Magazine	93	35	4364	4377	2013	1.596	AEM
92	Methodology for prediction of distortion of workpieces manufactured by high speed machining based on an accurate through-the-thickness residual stress determination	Richter-Trummer, V.; Koch, D.; Witte, A.; dos Santos, J.F.; de Castro, P.M.S.T.	The International Journal of Advanced Manufacturing Technology	68	9-12	2271	2281	2013	1.205	AEM

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93	Hydrogen sorption in the LiH-LiF-MgB ₂ system	Saldan I., Schulze M., Pistidda C., Gosalawit-Utke R., Zavorotynska O., Rude L.H., Skibsted J., Haase D., Cerenius Y., Jensen T.R., Spoto G., Baricco M., Taube K., Dornheim M.	Journal of Physical Chemistry C	117	33	17360	17366	2013	4.814	AEM
94	In situ synchrotron radiation powder X-ray diffraction study of the 2LiNH ₂ + LiH + KBH ₄ system	Sale M., Pistidda C., Taras A., Napolitano E., Milanese C., Karimi F., Dornheim M., Garroni S., Enzo S., Mulas G.	Journal of Alloys and Compounds					2013	2.390	AEM / PNI
95	Comparison of different in vitro tests for biocompatibility screening of Mg alloys	Scheideler, L.; Fueger, C.; Schille, C.; Rupp, F.; Wendel, H.-P.; Hort, N.; Reichel, H.P.; Geis-Gerstorfer, J.	Acta Biomaterialia	9	10	8740	8745	2013	5.093	AEM
96	On the interaction between different size effects in fibre reinforced PMMA: Towards composites with optimised fracture behaviour	Scheider I., Xiao T., Huber N., Mosler J.	Computational Materials Science					2013	1.878	AEM
97	Size effects in short fibre reinforced composites	Scheider, I.; Chen, Y.; Hinz, A.; Huber, N.; Mosler, J.	ENGINEERING FRACTURE MECHANICS	101		17	27	2013	1.413	AEM
98	Mechanical properties and corrosion behaviour of freestanding, precipitate-free magnesium WE43 thin films	Schlueter, Kristina; Zamponi, Christiane; Hapke, Julia; Hort, Norbert; Kainer, Karl Ulrich; Quandt, Eckhard	INTERNATIONAL JOURNAL OF MATERIALS RESEARCH	104	3	286	292	2013	0.691	AEM
99	Investigation of biodegradation behaviour of an Mg-1Ca alloy influenced by heat treatment and applying plasma-chemical oxidation layers	Schmigalla S., Bender S., Heyn A., Schmidt J., Hort N.	Materials and Corrosion	64	7	578	584	2013	Scopus	AEM
100	Retardation of fatigue crack growth in aircraft aluminium alloys via laser heating – Simulation based design optimisation	Schnubel, D.; Horstmann, M.; Huber, N.	International Journal of Structural Integrity	4	4	429	445	2013	Scopus	AEM
101	Energy, equipment and cost savings by using a membrane unit in an amine-based absorption process for CO ₂ removal	Song S., Esche E., Stunkel S., Brinkmann T., Wind J., Shishatskiy S., Wozny G.	Chemie-Ingenieur-Technik	85	8	1221	1227	2013	Scopus	AEM
102	Hot Tearing Characteristics of Binary Mg-Gd Alloy Castings	Srinivasan, Amirthalingam; Wang, Zhi; Huang, Yuanding; Beckmann, Felix; Kainer, Karl Ulrich; Hort, Norbert	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	44A	5	2285	2298	2013	Scopus	AEM / PNI

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103	Failure of Magnesium Sheets Under Monotonic Loading: 3D Examination of Fracture Mode and Mechanisms	Steglich D., Morgeneyer T.F.	International Journal of Fracture			1	8	2013	1.250	AEM
104	Microstructure in dissimilar friction spot weld of Al to Mg alloys observed by stop-action technique	Suhuddin U., Fischer V., Dos Santos J.F.	TMS Annual Meeting			263	270	2013	Scopus	AEM
105	The thermal cycle during the dissimilar friction spot welding of aluminum and magnesium alloy	Suhuddin, U. F. H.; Fischer, V.; dos Santos, J. F.	SCRIPTA MATERIALIA	68	1	87	90	2013	2.821	AEM
106	Effect of calcium addition on the hot working behavior of as-cast AZ31 a magnesium alloy	Suresh, K.; Rao, K.P.; Prasad, Y.V.R.K.; Hort, N.; Kainer, K.U.	Materials Science and Engineering A	588		2285	2298	2013	2.108	AEM
107	Antibacterial biodegradable Mg-Ag alloys.	Tie, D; Feyerabend, F; Muller, W D; Schade, R; Liefeth, K; Kainer, K U; Willumeit, R	European cells & materials	25		284	298	2013	4.558	AEM
108	The influence of refill FSSW parameters on the microstructure and shear strength of 5042 aluminium welds	Tier, M. D.; Rosendo, T. S.; dos Santos, J. F.; Huber, N.; Mazzaferro, J. A.; Mazzaferro, C. P.; Strohaecker, T. R.	JOURNAL OF MATERIALS PROCESSING TECHNOLOGY	213	6	997	1005	2013	1.953	AEM
109	In situ synchrotron diffraction of the solidification of Mg-RE alloys	Tolnai D., Mendis C.L., Stark A., Szakacs G., Wiese B., Kainer K.U., Hort N.	Magnesium Technology			253	257	2013	Scopus	AEM / PNI
110	Effect of solution heat treatment on the internal architecture and compressive strength of an AlMg4.7Si8 alloy	Tolnai, D.; Requena, G.; CCloetens, P.; Lendvai, J.; Degischer, H.P.	Materials Science and Engineering A	585		480	487	2013	2.108	AEM
111	Product recovery in surfactant-based separation processes: Pervaporation of toluene from concentrated surfactant solutions	Topf, Maria; Ingram, Thomas; Mehling, Tanja; Brinkmann, Torsten; Smirnova, Irina	JOURNAL OF MEMBRANE SCIENCE	444		32	40	2013	4.093	AEM
112	Processing of Magnesium Porous Structures by Infiltration Casting for Biomedical Applications	Trinidad, J.; Marco, I.; Arruebarrena, G.; Wendt, J.; Letzig, D.; Saenz de Argandona, E.; Goodall, R.	Advanced Engineering Materials					2013	1.608	AEM
113	Instability of styrene/polystyrene/polybutadiene/polystyrene-b-polybutadiene emulsions that emulate styrene polymerization in the presence of polybutadiene	Velasquez, Eliezer; Oliva, Haydee; Mueller, Alejandro J.; Lopez, Juan V.; Vega, Jorge; Meira, Gregorio R.; Wambach, Mona	POLYMER ENGINEERING AND SCIENCE	53	9	1886	1900	2013	1.243	AEM

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114	Microstructure and texture development in hydrostatically extruded Mg-Al-Zn alloys during tensile testing at intermediate temperatures	Victoria-Hernandez, J.; Yi, S.; Letzig, D.; Hernandez-Silva, D.; Bohlen, J.	ACTA MATERIALIA	61	6	2179	2193	2013	3.941	AEM
115	Electrocapillary coupling coefficients for hydrogen electrosorption on palladium	Viswanath R.N., Weissmuller J.	Acta Materialia	61	16	6301	6309	2013	3.941	AEM
116	Hybrid modelling of 7449-T7 aluminium alloy friction stir welded joints	Wang, H.; Colegrove, P.A.; dos Santos, J.F.	Science and Technology of Welding and Joining	18	2	147	153	2013	1.274	AEM
117	Numerical investigation of the tool contact condition during friction stir welding of aerospace aluminium alloy	Wang, H.; Colegrove, P.A.; dos Santos, J.F.	Computational Materials Science	71		101	108	2013	1.878	AEM
118	Composites of Nanoporous Gold and Polymer	Wang, Ke; Weissmueller, Joerg	ADVANCED MATERIALS	25	9	1280	1284	2013	14.860	AEM
119	Catalytic activity of nanostructured Au: Scale effects versus bimetallic/bifunctional effects in low-temperature CO oxidation on nanoporous Au	Wang, Lu-Cun; Zhong, Yi; Jin, Haijun; Widmann, Daniel; Weissmueller, Joerg; Behm, R. Juergen	BEILSTEIN JOURNAL OF NANOTECHNOLOGY	4	1	111	128	2013	2.374	AEM
120	Hot tearing susceptibility of binary Mg-Y alloy castings	Wang, Zhi; Huang, Yuanding; Srinivasan, Amirthalingam; Liu, Zheng; Beckmann, Felix; Kainer, Karl Ulrich; Hort, Norbert	MATERIALS & DESIGN	47		90	100	2013	2.913	AEM / PNI
121	Scanning and transmission electron microscopy investigations of defect arrangements in a two-phase γ -TiAl alloy	Weidner A., Pyczak F., Biermann H.	Materials Science and Engineering A	571		49	56	2013	2.108	AEM
122	Magnesium degradation as determined by artificial neural networks	Willumeit R., Feyerabend F., Huber N.	Acta Biomaterialia					2013	5.093	AEM
123	Microstructure, mechanical and corrosion properties of Mg-Dy-Gd-Zr alloys for medical applications	Yang L., Huang Y., Feyerabend F., Willumeit R., Mendis C., Kainer K.U., Hort N.	Acta Biomaterialia					2013	5.093	AEM
124	Element distribution in the corrosion layer and cytotoxicity of alloy Mg-10Dy during in vitro biodegradation	Yang, L.; Hort, N.; Laipple, D.; Hoeche, D.; Huang, Y.; Kainer, K.U.; Willumeit, R.; Feyerabend, F.	Acta Biomaterialia	9	10	8475	8487	2013	5.093	AEM

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125	Fabrication of magnesium alloy with high strength and heat-resistance by hot extrusion and ageing	Yu, Z. J.; Huang, Yuanding; Qiu, X.; Yang, Q.; Sun, W.; Tian, Z.; Zhang, D. P.; Meng, J.	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	578		346	353	2013	2.108	AEM
126	Effect of backplate diffusivity on microstructure and mechanical properties of friction stir welded joints	Zhang, Zhihan; Li, Wenya; Shen, Junjun; Chao, Y. J.; Li, Jinglong; Ma, Yu-E.	MATERIALS & DESIGN	50		551	557	2013	2.913	AEM
127	Microstructure and mechanical behavior of metal injection molded Ti-Nb binary alloys as biomedical material	Zhao D., Chang K., Ebel T., Qian M., Willumeit R., Yan M., Pyczak F.	Journal of the Mechanical Behavior of Biomedical Materials	28		171	182	2013	2.368	AEM / PNI
128	Mitigation during Dealloying of Au ₂₅ Cu ₇₅ . In: Advanced Engineering Materials	Zhong, Y.; Markmann, J.; Jin, H.-J.; Ivanisenko, Y.; Kurmanaeva, L.; Weissmueller, J.	Advanced Engineering Materials					2013	1.608	AEM
129	Examination of the energy phase space of mixed copper grain boundaries by EBSD and the sphere-on-a-plate method	Ziehmer M., Tschöpe A., Birringer R., Markmann J.	Acta Materialia	61	15	5586	5594	2013	3.941	AEM

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1	Kinetics of aggregation in micellar solutions of thermoresponsive triblock copolymers - influence of concentration, start and target temperatures	Adelsberger, Joseph; Grillo, Isabelle; Kulkarni, Amit; Sharp, Melissa; Bivigou-Koumba, Achille M.; Laschewsky, Andre; Mueller-Buschbaum, Peter; Papadakis, Christine M.	SOFT MATTER	9	5	1685	1699	2013	3.909	PNI
2	Temperature dependence of magnetic properties in weakly exchange coupled Fe/V superlattices	Ahlberg M., E. T. Papaioannou, G. Nowak, B. Hjörvarsson	J. Magn. Magn. Mater.	341		142	147	2013	1.826	PNI
3	Performance of pulsed constant current silicate-based PEO coating on pure magnesium in simulated body fluid	Alabbasi, A., Bobby Kannan, M., Walter, R., Störmer, M., Blawert, C.	Materials Letters	106		18	21	2013	2.224	AEM / PNI
4	Vehicles of inverted hexagonal liquid crystalline lipid phases self-assembled at room temperature	Angelov B., Angelova A., Garamus V.M., Lesieur S.	Journal of Optoelectronics and Advanced Materials	15	3-4	211	215	2013	0.516	PNI
5	Structural analysis of tetrahedral channel formation and hydration in cubosome nanoparticles	Angelov, B; Angelova, A; Drechsler, M; Garamus, VM; Stepanek, P; Lesieur, S	EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS	42		S204	S204	2013	2.274	PNI
6	Protein entrapment in PEGylated lipid nanoparticles	Angelova A., Angelov B., Drechsler M., Garamus V.M., Lesieur S.	International Journal of Pharmaceutics	454	2	625	632	2013	3.458	PNI
7	Results from single shot grazing incidence hard X-ray damage measurements conducted at the SACLA FEL	Aquila A., Ozkan C., Sobierajski R., Hajkova V., Burian T., Chalupsky J., Juha L., Stormer M., Ohashi H., Koyama T., Tono K., Inubushi Y., Yabashi M., Sinn H., Tschentscher T., Mancuso A.P., Gaudin J.	Proceedings of SPIE - The International Society for Optical Engineering	8777				2013	Conference Paper	PNI
8	Filling the gaps of dinosaur eggshell phylogeny: Late Jurassic Theropod clutch with embryos from Portugal	Araujo, Ricardo; Castanhinha, Rui; Martins, Rui M. S.; Mateus, Octavio; Hendrickx, Christophe; Beckmann, F.; Schell, N.; Alves, L. C.	NATURE SCIENTIFIC REPORTS	3		1	8	2013	2.927	PNI

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9	The spatial diamond-graphite transition in detonation nanodiamond as revealed by small-angle neutron scattering	Avdeev, M.V., Aksenov, V.L., Tomchuk, O.V., Bulavin, L.A., Garamus, V.M., Osawa, E.	Journal of Physics Condensed Matter	25		445001		2013	2.355	PNI
10	The head anatomy of Epiophlebia superstes (Odonata: Epiophlebiidae)	Blanke, Alexander; Beckmann, Felix; Misof, Bernhard	ORGANISMS DIVERSITY & EVOLUTION	13	1	55	66	2013	2.259	PNI
11	An updated phylogeny of Anisoptera including formal convergence analysis of morphological characters	Blanke, Alexander; Greve, Carola; Mokso, Rajmund; Beckmann, Felix; Misof, Bernhard	SYSTEMATIC ENTOMOLOGY	38	3	474	490	2013	2.876	PNI
12	Revival of Palaeoptera-head characters support a monophyletic origin of Odonata and Ephemeroptera (Insecta)	Blanke, Alexander; Wipfler, Benjamin; Letsch, Harald; Koch, Markus; Beckmann, Felix; Beutel, Rolf; Misof, Bernhard	CLADISTICS	28	6	560	581	2013	5.043	PNI
13	Concentrational commensurate-incommensurate magnetic phase transition in Y _{1-x} Tb _x Mn ₆ Sn ₆	Bogdanov, S. G., Mushnikov, N. V., Terent'ev, P. B., Gerasimov, E. G., Grigoriev, S. V., Okorokov, A. I., Chetverikov, Yu. O., Eckerlebe, H., Pranzas, K., Pirogov, A. N.	PHYSICS OF METALS AND METALLOGRAPHY	114	7	566	572	2013	0.573	PNI
14	Assessing the morphology of selective laser melted NiTi-scaffolds for a three-dimensional quantification of the one-way shape memory effect	Bormann T., De Wild M., Beckmann F., Muller B.	Proceedings of SPIE - The International Society for Optical Engineering	8689				2013	Conference Paper	PNI
15	In situ structural characterization of laser welded NiTi shape memory alloys	Braz Fernandes, F.M.; Mahesh, K.K.; Craciunescu, C.M.; Oliveira, J.P.; Schell, N.; Miranda, R.M.; Quintino, L.; Ocaña, J.L.	Materials Science Forum	738-739		338	343	2013	Conference Paper	PNI
16	Space resolved microstructural characteristics in the chip formation zone of orthogonal cut C45E steel samples characterized by diffraction experiments	Brommelhoff K., Henze S., Gerstenberger R., Fischer T., Schell N., Uhlmann E., Reimers W.	Journal of Materials Processing Technology	213	12	2211	2216	2013	1.953	PNI
17	Development of Residual Stresses and Texture in Drawn Copper Tubes	Carrado, Adele; Brokmeier, Heinz-Guenter; Pirling, Thilo; Wimpory, Robert Charles; Schell, Norbert; Palkowski, Heinz	ADVANCED ENGINEERING MATERIALS	15	6	469	475	2013	1.608	PNI

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18	Bringing dicynodonts back to life: Paleobiology and anatomy of a new emydopoid genus from the Upper Permian of Mozambique	Castanhinha, R., Araújo, R., Júnior, L.C., Angielczyk, K.D., Martins, G.G., Martins, R.M.S., Chaouiya, C., Beckmann, F., Wilde, F.	PLoS ONE	8	12	e80974		2013	3.730	PNI
19	Influence of rheology and morphology on foaming of PS-b-PMMA diblock copolymers and their composites with modified silica nanoparticles	Chakkalakal, G.L., Abetz, C., Vainio, U., Handge, U.A., Abetz, V.	Polymer (United Kingdom)	54	15	3860	3873	2013	3.379	AEM / PNI
20	Texture evolution of the Mg/Al laminated composite by accumulative roll bonding at ambient temperature	Chang, H., Zheng, M., Gan, W., Xu, C., Brokmeier, H.G.	Xiyou Jinshu Cailiao Yu Gongcheng/Rare Metal Materials and Engineering	42	3	441	446	2013	0.160	PNI
21	Modulation reorientation in 10M Ni-Mn-Ga martensite	Chulist, R.; Straka, L.; Sozinov, A.; Lippmann, T.; Skrotzki, W.	Scripta Materialia	68	9	671	674	2013	2.699	PNI
22	Influence of substrate microstructure on longitudinal correlation length of porous system of anodic alumina: Small-angle scattering study	Chumakov, A.P., Roslyakov, I.V., Napol'skii, K.S., Eliseev, A.A., Lukashin, A.V., Eckerlebe, H., Bouwman, W.G., Belov, D.V., Okorokov, A.I., Grigoriev, S.V.	Nanotechnologies in Russia	8	9-10	631	638	2013	Scopus	PNI
23	GEM-based thermal neutron beam monitors for spallation sources	Croci G., Claps G., Caniello R., Cazzaniga C., Grosso G., Murtas F., Tardocchi M., Vassallo E., Gorini G., Horstmann C., Kampmann R., Nowak G., Stoermer M.	Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment	732		217	220	2013	1.142	PNI
24	Iron oxide film growth under ultrathin polysiloxane networks	Degen P., D.C.F. Wieland, M. Paulus, M.A. Schroer, M. Tolan, and H. Rehage	Colloid and Polymer Science	291		653		2013	Scopus	PNI
25	Dielectric barrier formation and tunneling magnetoresistance effect in strontium iron molybdate	Dem'yanov, S. E.; Kalanda, N. A.; Kovalev, L. V.; Avdeev, M. V.; Zheludkevich, M. L.; Garamus, V. M.; Willumeit, R.	TECHNICAL PHYSICS LETTERS	39	6	552	555	2013	0.562	PNI

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26	In situ measurement of lattice strains in mixed ceramic cutting tools under thermal and mechanical loads using synchrotron radiation	Eichenseer C., Wittmann I., Hartig C., Schneider G.A., Schell N., Hintze W.	Production Engineering	7	2-3	283	289	2013	Scopus	PNI
27	Unwrapping differential x-ray phase-contrast images through phase estimation from multiple energy data	Epple, F.M., Potdevin, G., Thibault, P., Ehn, S., Herzen, J., Hipp, A., Beckmann, F., Pfeiffer, F.	Optics Express	21	24	29101	29108	2013	3.546	PNI
28	Internal friction and microplastic deformation behavior of pure magnesium processed by equal channel angular pressing	Fan G.D., Zheng M.Y., Hu X.S., Wu K., Gan W.M., Brokmeier H.G.	Materials Science and Engineering A	561		100	108	2013	2.108	PNI
29	Effect of grain size on cyclic microplasticity of ECAP processed commercial pure magnesium	Fan, G. D.; Zheng, M. Y.; Ju, C. H.; Hu, X. S.; Wu, K.; Gan, W. M.; Brokmeier, H. G.	Journal of Materials Science	48	3	1239	1248	2013	2.163	PNI
30	The head of Merope tuber (Meropeidae) and the phylogeny of Mecoptera (Hexapoda)	Friedrich, Frank; Pohl, Hans; Beckmann, Felix; Beutel, Rolf G.	ARTHROPOD STRUCTURE & DEVELOPMENT	42	1	69	88	2013	2.488	PNI
31	Asymmetric superconducting spin valves based on the Fe/V layer system grown on MgO(100)	G. Nowak, K. Westerholt, H. Zabel,	Supercond. Sci. Technol.	26	2			2013	2.758	PNI
32	TiAlNb-alloy with a modulated B19 containing constituent produced by powder metallurgy	Gabrisch, H., Lorenz, U., Oehring, M., Paul, J., Pyczak, F., Rackel, M., Schimansky, F.-P., and Stark, A.	Proceedings of the MRS 2012 Fall Meeting	1516		35	40	2013	Scopus	AEM/PNI
33	Investigation of carbides in Ti-45Al-5Nb-xC alloys (0 <= x <= 1) by transmission electron microscopy and high energy-XRD	Gabrisch, Heike; Stark, Andreas; Schimansky, Frank-Peter; Wang, Li; Schell, Norbert; Lorenz, Uwe; Pyczak, Florian	INTERMETALLICS	33		44	53	2013	1.857	AEM / PNI
34	Residual stresses near the hot sprues of as-cast Mg-Zn alloys investigated by STRESS-SPEC neutron diffractometer	Gan, W.; Huang, Y.; Wang, Z.; Hort, N.; Hofmann, M.	Materials Science Forum	768-769		428	432	2013	Scopus	PNI
35	X-ray and Neutron Investigation of Self-Assembled Lipid Layers on a Titanium Surface	Golub M., D. Lott, E. Watkins, V. Garamus, B. Luthringer, M. Stoermer, A. Schreyer, R. Willumeit	Biointerphases	8		21		2013	1.905	PNI
36	Nanoconfined 2LiBH(4)-MgH2-TiCl3 in carbon aerogel scaffold for reversible hydrogen storage	Gosalawit-Utke, Rapee; Milanese, Chiara; Javadian, Payam; Jepsen, Julian; Laipple, Daniel; Karmi, Fahim; Puszkiel, Julian; Jensen, Torben R.; Marini, Amedeo; Klassen, Thomas; Dornheim, Martin	International Journal of Hydrogen Energy	38	8	3275	3282	2013	3.548	AEM / PNI

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37	Nanoconfined 2LiBH(4)-MgH ₂ for reversible hydrogen storages: Reaction mechanisms, kinetics and thermodynamics	Gosalawit-Utke, Rapee; Milanese, Chiara; Nielsen, Thomas K.; Karimi, Fahim; Saldan, Ivan; Pranzas, Klaus; Jensen, Torben R.; Marini, Amedeo; lassen, Thomas; Dornheim, Martin	International Journal of Hydrogen Energy	38	4	1932	1942	2013	3.548	AEM / PNI
38	Tuning the aggregation behaviour of single-chain bolaamphiphiles in aqueous suspension by changes in headgroup asymmetry	Graf, G., Drescher, S., Meister, A., Garamus, V.M., Dobner, B., Blume, A.	Soft Matter	9	40	9562	9571	2013	3.909	PNI
39	Bolalipid fiber aggregation can be modulated by the introduction of sulfur atoms into the spacer chains	Graf, Gesche; Drescher, Simon; Meister, Annette; Haramus, Vasyl M.; Dobner, Bodo; Blume, Alfred	JOURNAL OF COLLOID AND INTERFACE SCIENCE	393	1	143	150	2013	3.172	PNI
40	Evaluation of phase-contrast CT of breast tissue at conventional X-ray sources - presentation of selected findings	Grandl S., Willner M., Herzen J., Mayr D., Auweter S.D., Hipp A., Pfeiffer F., Reiser M., Hellerhoff K.	Zeitschrift für Medizinische Physik	23	3	212	221	2013	1.407	PNI
41	Chiral Properties of Structure and Magnetism in Mn _{1-x} Fe _x Ge Compounds: When the Left and the Right are Fighting, Who Wins?	Grigoriev, S. V.; Potapova, N. M.; Siegfried, S. -A.; Dyadkin, V. A.; Moskvina, E. V.; Dmitriev, V.; Menzel, D.; Dewhurst, C. D.; Chernyshov, D.; Sadykov, R. A.; Fomicheva, L. N.; Tsvyashchenko, A. V.	Physical Review Letters	110	20			2013	7.943	PNI
42	A one-pot approach to mesoporous metal oxide ultrathin film electrodes bearing one metal nanoparticle per pore with enhanced electrocatalytic properties	Guiet, A., Reier, T., Heidary, N., Felkel, D., Johnson, B., Vainio, U., Schlaad, H., Aksu, Y., Driess, M., Strasser, P., Thomas, A., Polte, J., Fischer, A.	Chemistry of Materials	25	23	4645	4652	2013	8.238	PNI
43	Simulation of Deformation Texture Evolution During Multi Axial Forging of Interstitial Free Steel	Gurao, N. P.; Kumar, P.; Sarkar, A.; Brokmeier, H. -G.; Suwas, Satyam	Journal of Materials Engineering and Performance	22	4	1004	1009	2013	0.150	PNI
44	Texture Weakening Effects in Ce-Containing Mg Alloys	Hadorn, Jason P.; Mulay, Rupalee P.; Hantzsche, Kerstin; Yi, Sangbong; Bohlen, Jan; Letzig, Dietmar; Agnew, Sean R.	METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE	44	3	1566	1576	2013	1.627	PNI
45	Diffusion brazing of γ -TiAl-alloys: Investigations of the joint by electron microscopy and high-energy X-ray diffraction	Hauschildt, K., Stark, A., Lorenz, U., Schell, N., Fischer, T., Blankenburg, M., Mueller, M., Pyczak, F.	Materials Research Society Symposium Proceedings	1516		215	220	2013	Scopus	AEM / PNI

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46	Grating-based X-ray phase-contrast tomography of atherosclerotic plaque at high photon energies	Hetterich H., Fill S., Herzen J., Willner M., Zanette I., Weitkamp T., Rack A., Schuller U., Sadeghi M., Brandl R., Adam-Neumair S., Reiser M., Pfeiffer F., Bamberg F., Saam T.	Zeitschrift für Medizinische Physik	23	3	194	203	2013	1.407	PNI
47	Rotatable multifunctional load frames for neutron diffractometers at FRM II-design, specifications and applications	Hoelzel, M.; Gan, W. M.; Hofmann, M.; Randau, C.; Seidl, G.; Juettner, Ph.; Schmah, W. W.	Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment	711		101	105	2013	1.142	PNI
48	Materials science at the diffractometer STRESS-SPEC at FRM II	Hofmann M., Gan W.M., Rebelo-Kornmeier J., Schobel M.	Neutron News	24	3	14	17	2013	Scopus	PNI
49	Density profile in thin films of polybutadiene on silicon oxide substrates: A TOF-NR study	Hoppe E.T., Sepe A., Haese-Seiler M., Moulin J.-F., Papadakis C.M.	Langmuir	29	34	10759	10768	2013	4.187	PNI
50	Local magnetization and strain in single magnetoelectric microrod composites	Hrkac, S.B., Abes, M., Koops, C.T., Krywka, C., Müller, M., Kaps, S., Adelung, R., McCord, J., Lage, E., Quandt, E., Magnussen, O.M., Murphy, B.M.	Applied Physics Letters	103	12	123111		2013	3.794	PNI
51	pH control of the structure, composition, and catalytic activity of sulfated zirconia	Ivanov, Vladimir K.; Baranchikov, Alexander Ye.; Kopitsa, Gennady P.; Lermontov, Sergey A.; Yurkova, Lyudmila L.; Gubanova, Nadezhda N.; Ivanova, Olga S.; Lermontov, Anatoly S.; Romyantseva, Marina N.; Vasilyeva, Larisa P.; Sharp, Melissa; Pranzas, P. Klaus; Tretyakov, Yuri D.	Journal of Solid State Chemistry	198		496	505	2013	2.159	PNI
52	Charge transfer processes and magnetoresistance in strontium ferromolybdate with dielectric barriers	Kalanda, N. A.; Kovalev, L. V.; Zheludkevich, M. L.; Garamus, V. M.; Willumeit, R.; Sobolev, N. A.	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	250	4	825	830	2013	1.489	PNI
53	Water Solution: Comparative Characteristics of	Kaznacheevskaya A. A., O. A. Kizima, L. A. Bulavin, A. V. Tomchuk, V. M. Garamus, M. V. Avdeev	Journal of Surface Investigation: X-ray, Synchrotron and Neutron Techniques	7	6	1133	1136	2013	0.359	PNI
54	Verification of structural simulation results of metal-based additive manufacturing by means of neutron diffraction	Krol, T. A.; Seidel, C.; Schilp, J.; Hofmann, M.; Gan, W.; Zaeh, M. F.	Physics Procedia: LASERS IN MANUFACTURING (LIM 2013)	41		842	850	2013	Conference Paper	PNI

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55	Nanodiffraction at MINAXS (P03) beamline of PETRA III	Krywka C., Keckes J., Storm S., Buffet A., Roth S.V., Dohrmann R., Müller M.	Journal of Physics: Conference Series	425	PART 7	72021		2013	Scopus	PNI
56	Gold-silicon metamaterial with hyperbolic transition in near infrared	Lang, S.; Lee, H. S.; Petrov, A. Yu.; Stoermer, M.; Ritter, M.; Eich, M.	Applied Physics Letters	103	2	021905		2013	3.794	PNI
57	Interaction of the biosurfactant, surfactin with betaines in aqueous solution	Liu F., Xiao J., Garamus V.M., Almasy L., Willumeit R., Mu B., Zou A.	Langmuir	29	34	10648	10657	2013	4.187	PNI
58	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	Scopus	AEM / PNI
59	Reentrant structural phase transition in amphiphilic self-assembly	Liu, Jianing; Harms, Meike; Garamus, Vasil M.; Mueller-Goymann, Christel C.	Soft Matter	9	28	6371	6375	2013	3.909	PNI
60	Production, characterisation, and cytocompatibility of porous titanium-based particulate scaffolds	Luthringer B.J.C., Ali F., Akaichi H., Feyerabend F., Ebel T., Willumeit R.	Journal of Materials Science: Materials in Medicine	24	10	2337	2358	2013	2.163	AEM / PNI
61	In vitro strategies to mimic in vivo events after osseous implantation	Luthringer BJC, L Wu, M Costantino, A Burmester, AF Schilling, F Feyerabend, R Willumeit	European Cells and Materials	26	5	35	35	2013	4.558	PNI
62	Diagnosing and Mapping Pulmonary Emphysema on X-Ray Projection Images: Incremental Value of Grating-Based X-Ray Dark-Field Imaging	Meinel, Felix G.; Schwab, Felix; Schleede, Simone; Bech, Martin; Herzen, Julia; Achterhold, Klaus; Auweter, Sigrid; Bamberg, Fabian; Yildirim, Ali Oe.; Bohla, Alexander; Eickelberg, Oliver; Loewen, Rod; Gifford, Martin; Ruth, Ronald; Reiser, Maximilian F.; Pfeiffer, Franz; Nikolaou, Konstantin	PLOS ONE	8	3	e59526		2013	3.730	PNI
63	Physical characterization of iron oxide nanoparticles in magnetoferritin	Melnikova, L., Mitroova, Z., Timko, M., J. Kovač, Koralewski, M., Pochylski, M., Avdeev, M.V., Petrenko, V.I., Garamus, V.M., Almasy, L., Kopčanský, P.	Magneto hydrodynamics	49	3-4	293	296	2013	0.550	PNI
64	Chemical State, Distribution, and Role of Ti- and Nb-Based Additives on the Ca(BH ₄) ₂ System	Minella, Christian Bonatto; Pellicer, Eva; Rossinyol, Emma; Karimi, Fahim; Pistidda, Claudio; Garroni, Sebastiano; Milanese, Chiara; Nolis, Pau; Dolors Baro, Maria; Gutfleisch, Oliver; Pranzas, Klaus P.; Schreyer, Andreas; Klassen, Thomas; Bormann, Ruediger; Dornheim, Martin	JOURNAL OF PHYSICAL CHEMISTRY C	117	9	4394	4403	2013	4.814	AEM / PNI

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65	Three-dimensional artificial spin ice in nanostructured Co on an inverse opal-like lattice	Mistonov A.A., Grigoryeva N.A., Chumakova A.V., Eckerlebe H., Sapoletova N.A., Napolskii K.S., Eliseev A.A., Menzel D., Grigoriev S.V.	Physical Review B - Condensed Matter and Materials Physics	87	22	220408		2013	3.767	PNI
66	Complex Chiral Modulations in FeGe Close to Magnetic Ordering	Moskvin, E.; Grigoriev, S.; Dyadkin, V.; Eckerlebe, H.; Baenitz, M.; Schmidt, M.; Wilhelm, H.	Physical Review Letters	110		077207/1	077207/5	2013	7.370	PNI
67	Application of In Situ Neutron and X-Ray Measurements at High Temperatures in the Development of Co-Re-Based Alloys for Gas Turbines	Mukherji, Debashis; Roesler, Joachim; Wehrs, Juri; Strunz, Pavel; Beran, Premysl; Gilles, Ralph; Hofmann, Michael; Hoelzel, Markus; Eckerlebe, Helmut; Szentmiklosi, Laszlo; Macsik, Zsuzsanna	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	44	1	22	30	2013	1.627	PNI
68	Fifteen years of microbeam X-ray diffraction of single cellulose fibers and wood cell walls	Muller, M	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	245		124-Cell		2013	Conference Paper	PNI
69	Evaluation of the potential of phase-contrast computed tomography for improved visualization of cancerous human liver tissue	Noel, Peter B.; Herzen, Julia; Fingerle, Alexander A.; Willner, Marian; Stockmar, Marco K.; Hahn, Dieter; Settles, Marcus; Drecoll, Enken; Zanette, Irene; Weitkamp, Timm; Rummeny, Ernst J.; Pfeiffer, Franz	ZEITSCHRIFT FÜR MEDIZINISCHE PHYSIK	23	3	204	211	2013	1.407	PNI
70	Asymmetric superconducting spin valves based on the Fe/V layer system grown on MgO(100)	Nowak, G.; Westerholt, K.; Zabel, H.	SUPERCONDUCTOR SCIENCE & TECHNOLOGY	26	2	25004		2013	2.758	PNI
71	Microstructural refinement of boron-containing beta-solidifying gamma-titanium aluminide alloys through heat treatments in the beta phase field	Oehring, M.; Stark, A.; Paul, J. D. H.; Lippmann, T.; Pyczak, F.	Intermetallics	32		12	20	2013	1.857	AEM / PNI
72	Analytical description of the scattering of cellulose nanocrystals in tracheid wood cells (vol 43, pg 256, 2010)	Ogurreck, M., Lichtenegger, H.C., Müller, M.	Journal of Applied Crystallography	46	6	1907	1907	2013	3.343	PNI
73	The nanotomography endstation at the PETRA III Imaging Beamline	Ogurreck, M.; Wilde, F.; Herzen, J.; Beckmann, F.; Nazmov, V.; Mohr, J.; Haibel, A.; Mueller, M.; Schreyer, A.	Journal of Physics: Conference Series	425	18	182002		2013	Conference Paper	PNI
74	Structural modification and twinning stress reduction in a high-temperature Ni-Mn-Ga magnetic shape memory alloy	Pagounis, E., Chulist, R., Lippmann, T., Laufenberg, M., Skrotzki, W.	Applied Physics Letters	103	11	111911		2013	3.794	PNI

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75	Grating-Based X-ray Phase Contrast for Biomedical Imaging Applications	Pfeiffer F., Herzen J., Willner M., Chabior M., Auweter S., Reiser M., Bamberg F.	Zeitschrift für Medizinische Physik	23	3	176	185	2013	1.407	PNI
76	Plastic deformation mechanisms in a creep L1(2) hardened Co-base superalloy	Pyczak, F.; Bauer, A.; Goeken, M.; Neumeier, S.; Lorenz, U.; Oehring, M.; Schell, N.; Schreyer, A.; Stark, A.; Symanzik, F.	Materials Science and Engineering A	571		13	18	2013	2.108	AEM / PNI
77	Infiltration of Polymer Hole-Conductor into Mesoporous Titania Structures for Solid-State Dye-Sensitized Solar Cells	Rawolle, Monika; Sarkar, Kuhu; Niedermeier, Martin A.; Schindler, Markus; Lellig, Philipp; Gutmann, Jochen S.; Moulin, Jean-Francois; Haese-Seiller, Martin; Wochnik, Angela S.; Scheu, Christina; Mueller-Buschbaum, Peter	ACS Applied Materials and Interfaces	5	3	719	729	2013	5.008	PNI
78	All-polymer field-effect transistors using a brush gate dielectric	Rodríguez, A.B., Tomlinson, M.R., Khodabakhsh, S., Chang, J.-F., Cousin, F., Lott, D., Sirringhaus, H., Huck, W.T.S., Higgins, A.M., Geoghegan, M.	Journal of Materials Chemistry C	1	46	7736	7741	2013	Pending	PNI
79	Translation of Atherosclerotic Plaque Phase-Contrast CT Imaging from Synchrotron Radiation to a Conventional Lab-Based X-Ray Source	Saam, T., Herzen, J., Hetterich, H., Fill, S., Willner, M., Stockmar, M., Achterhold, K., Zanette, I., Weitkamp, T., Schüller, U., Auweter, S., Adam-Neumair, S., Nikolaou, K., Reiser, M.F., Pfeiffer, F., Bamberg, F.	PLoS ONE	8	9	e73513		2013	3.730	PNI
80	Tailoring exchange bias through chemical order in epitaxial FePt3 films	Saerbeck, T.; Zhu, H.; Lott, D.; Lee, H.; LeClair, P. R.; Mankey, G. J.; Stampfl, A. P. J.; Klose, F.	Journal of Applied Physics	114	1	13901		2013	2.210	PNI
81	In situ synchrotron radiation powder X-ray diffraction study of the 2LiNH ₂ + LiH + KBH ₄ system	Sale M., Pistidda C., Taras A., Napolitano E., Milanese C., Karimi F., Dornheim M., Garroni S., Enzo S., Mulas G.	Journal of Alloys and Compounds	580	S1	S278	S281	2013	2.390	AEM / PNI
82	Magnetic properties and crystallographic textures of Fe 2.6% Si after 90% cold rolling plus different annealing Journal of magnetism and magnetic materials	Salih M.Z. , B. Weidenfeller , N. Al-hamdany , H.-G.Brokmeier , W. M.Gan	Journal of magnetism and magnetic materials	354		105	111	2014	1.826	PNI
83	An in-situ high-energy X-ray diffraction study on the hot-deformation behavior of a beta-phase containing TiAl alloy	Schmoelzer, T.; Liss, K. -D.; Kirchlechner, C.; Mayer, S.; Stark, A.; Peel, M.; Clemens, H.	INTERMETALLICS	39		25	33	2013	1.857	AEM / PNI

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84	Comparison of contrast-to-noise ratios of transmission and dark-field signal in grating-based X-ray imaging for healthy murine lung tissue	Schwab F., Schleede S., Hahn D., Bech M., Herzen J., Auweter S., Bamberg F., Achterhold K., Yildirim A., Bohla A., Eickelberg O., Loewen R., Gifford M., Ruth R., Reiser M.F., Nikolaou K., Pfeiffer F., Meinel F.G.	Zeitschrift für Medizinische Physik	23	3	236	242	2013	1.407	PNI
85	Development of large grain cavities	Singer, W.; Aderhold, S.; Ermakov, A.; Iversen, J.; Kostin, D.; Kreps, G.; Matheisen, A.; Moeller, W. -D.; Reschke, D.; Singer, X.; Twarowski, K.; Weise, H.; Brokmeier, H. -G.	PHYSICAL REVIEW SPECIAL TOPICS-ACCELERATORS AND BEAMS	16	1	12003		2013	1.565	PNI
86	Hot Tearing Characteristics of Binary Mg-Gd Alloy Castings	Srinivasan, Amirthalingam; Wang, Zhi; Huang, Yuanding; Beckmann, Felix; Kainer, Karl Ulrich; Hort, Norbert	Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science	44	5	2285	2298	2013	1.627	AEM / PNI
87	In situ high-energy XRD study of the hot-deformation behavior of a novel γ -TiAl alloy	Stark, A., Schwaighofer, E., Mayer, S., Clemens, H., Lippmann, T., Lottemoser, L., Schreyer, A., Pyczak, F.	Materials Research Society Symposium Proceedings	1516		71	76	2013	Scopus	AEM / PNI
88	Assessment of grating-based X-ray phase-contrast CT for differentiation of invasive ductal carcinoma and ductal carcinoma in situ in an experimental ex vivo set-up	Sztrokay, Aniko; Herzen, Julia; Auweter, Sigrid D.; Liebhardt, Susanne; Mayr, DORIS; Willner, Marian; Hahn, Dieter; Zanette, Irene; Weitkamp, Timm; Hellerhoff, Karin; Pfeiffer, Franz; Reiser, Maximilian F.; Bamberg, Fabian	EUROPEAN RADIOLOGY	23		381	387	2013	3.222	PNI
89	In situ synchrotron diffraction of the solidification of Mg-RE alloys	Tolnai D., Mendis C.L., Stark A., Szakacs G., Wiese B., Kainer K.U., Hort N.	Magnesium Technology			253	257	2013	Scopus	AEM / PNI
90	Study of the solidification of AS alloys combining in situ synchrotron diffraction and differential scanning calorimetry	Tolnai D., Szakacs G., Requena G., Stark A., Schell N., Kainer K.U., Hort N.	Materials Science Forum	765		286	290	2013	Conference Paper	AEM / PNI
91	In situ synchrotron diffraction of the solidification of Mg ₄ Y ₃ Nd	Tolnai, D.; Mendis, C. L.; Stark, A.; Szakacs, G.; Wiese, B.; Kainer, K. U.; Hort, N.	MATERIALS LETTERS	102-103		62	64	2013	2.224	AEM / PNI
92	Compressive deformation behavior of Mg-Zn-Ca alloy at elevated temperature	Tong, L.B., Zheng, M.Y., Zhang, D.P., Gan, W.M., Brokmeier, H.G., Meng, J., Zhang, H.J.	Materials Science and Engineering A	586		71	77	2013	2.108	PNI

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93	An extended shear angle model derived from in situ strain measurements during orthogonal cutting	Uhlmann E., Henze S., Gerstenberger R., Brommelhoff K., Reimers W., Fischer T., Schell N.	Production Engineering	7	4	401	408	2013	Scopus	PNI
94	Measurement of residual stress fields in FHPP welding: A comparison between DSPI combined with hole-drilling and neutron diffraction	Viotti M.R., Albertazzi Jr. A., Staron P., Pisa M.	Proceedings of SPIE - The International Society for Optical Engineering	8788				2013	Scopus	PNI
95	Hot tearing susceptibility of binary Mg-Y alloy castings	Wang, Zhi; Huang, Yuanding; Srinivasan, Amirthalingam; Liu, Zheng; Beckmann, Felix; Kainer, Karl Ulrich; Hort, Norbert	MATERIALS & DESIGN	47		90	100	2013	2.913	AEM / PNI
96	Formation of iron containing aggregates at the liquid-air interface	Wieland, D. C. Florian; Degen, Patrick; Paulus, Michael; Schroer, Martin A.; Bieder, Steffen; Sahle, Christoph J.; Moeller, Johannes; Leick, Sabine; Chen, Zhao; Struth, Bernd; Rehage, Heinz; Tolan, Metin	COLLOIDS AND SURFACES B-BIOINTERFACES	109		74	81	2013	3.554	PNI
97	Quantitative X-ray phase-contrast computed tomography at 82 keV	Willner, Marian; Bech, Martin; Herzen, Julia; Zanette, Irene; Hahn, Dieter; Kenntner, Johannes; Mohr, Juergen; Rack, Alexander; Weitkamp, Timm; Pfeiffer, Franz	OPTICS EXPRESS	21	4	4155	4166	2013	3.546	PNI
98	Triaxial residual stresses in thermomechanically rolled seamless tubes characterized by high-energy synchrotron X-ray diffraction	Winter, G., Stefenelli, M., Klarner, J., Staron, P., Fischer, T., Keckes, J., Buchmayr, B.	Proceedings of the ASME 2013 Pressure Vessels and Piping Conference (PVP 2013)	PVP2013-97963				2013	Proceedings	PNI
99	Study of time and pressure dependent phenomena at the hard x-ray beamline BL9 of DELTA	Wirkert F.J. , M. Paulus, C. Sternemann, J. Nase, M.A. Schroer, D.C.F Wieland, S. Bieder, P. Degen, H. Rehage and M. Tolan	Journal of Physics: Conference Series	425		202006		2013	Scopus	PNI
100	Preparation and characterization of 4-dedimethylamino sancycline (CMT-3) loaded nanostructured lipid carrier (CMT-3/NLC) formulations	Yang, Xiaomin; Zhao, Lin; Almasy, Laszlo; Garamus, Vasil M.; Zou, Aihua; Willumeit, Regine; Fan, Saijun	International Journal of Pharmaceutics	450	1-2	225	234	2013	3.457	PNI
101	Fracture behavior of hydroxyapatite nanofibers in dental enamel under micropillar compression	Yilmaz, Ezgi D.; Bechtle, Sabine; Oezcoban, Hueseyin; Schreyer, Andreas; Schneider, Gerold A.	SCRIPTA MATERIALIA	68	6	404	407	2013	2.821	PNI
102	Microstructure and mechanical behavior of metal injection molded Ti-Nb binary alloys as biomedical material	Zhao, D., Chang, K., Ebel, T., Qian, M., Willumeit, R., Yan, M., Pyczak, F.	Journal of the Mechanical Behavior of Biomedical Materials	28		171	182	2013	2.368	AEM / PNI

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1	Tailoring the recovery force in magnetic shape-memory nanocomposites	Behl M., M.Y. Razzaq, A. Lendlein	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
2	Temperature-memory polymer actuators	Behl, Marc; Kratz, Karl; Noechel, Ulrich; Sauter, Tilman; Lendlein, Andreas	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	110	31	12555	12559	2013	9.737	RegMed
3	Reversible bidirectional shape-memory polymers.	Behl, Marc; Kratz, Karl; Zotzmann, Jorg; Nochel, Ulrich; Lendlein, Andreas	Advanced materials (Deerfield Beach, Fla.)	25	32	4466	4469	2013	14.829	RegMed
4	Are there sufficient standards for hemocompatibility testing of biomaterials?	Braune S., M. Grunze, A. Straub, F. Jung	Biointerphases	8 (33)				2013	IF 1.905	RegMed
5	Dynamic in vitro hemocompatibility testing of poly(ether imide) membranes functionalized with linear, methylated oligoglycerol and oligo(ethylene glycol)	Braune, Steffen; von Ruesten-Lange, Maik; Mrowietz, Christof; Luetzow, Karola; Roch, Toralf; Neffe, Axel T.; Lendlein, Andreas; Jung, Friedrich	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	54	3	235	248	2013	0	RegMed
6	Quantification of Protein Adsorption on Polyglycerol-based Polymer Network Films	Ekinici D., A.L. Sisson, A. Lendlein	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
7	Influence of Coupling Agent on the Morphology of Multifunctional, Degradable Shape-Memory Polymers	Fang L., W. Yan, U. Nöchel, M. Zierke, M. Behl, K. Kratz, A. Lendlein	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
8	Surface modification of polycarbonate urethane by covalent linkage of heparin with a PEG spacer	Feng Y., Tian H., Tan M., Zhang P., Chen Q., Liu J.	Transactions of Tianjin University	19	1	58	65	2013	Scopus	RegMed
9	Grafting of poly(ethylene glycol) monoacrylates on polycarbonateurethane by UV initiated polymerization for improving hemocompatibility	Feng, Yakai; Zhao, Haiyang; Behl, Marc; Lendlein, Andreas; Guo, Jintang; Yang, Dazhi	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE	24	1	61	70	2013	2.163	RegMed

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10	Pathophysiology of the contrast media-induced nephropathy (CIN) in patients undergoing coronary interventions	Franke R. P., F. Jung	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	53	3	143	153	2013	0	RegMed
11	Distribution of actin of the human erythrocyte membrane cytoskeleton after interaction with radiographic contrast media	Franke R.P., T. Scharnweber, R. Fuhrmann, A. Krüger, F. Wenzel, C. Mrowietz, F. Jung	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	55 (4)		481	490	2013	0	RegMed
12	Effect of radiographic contrast media (Iodixanol, Iopromide) on the spectrin/actin-network of the membranous cytoskeleton of erythrocytes	Franke, R. P.; Scharnweber, T.; Fuhrmann, R.; Mrowietz, C.; Jung, F.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	54	3	273	285	2013	0	RegMed
13	Investigating side-reactions during UV-induced preparation of oligo(ϵ -caprolactone) based shape-memory polymer networks	Frieß F., A. Lendlein, C. Wischke	245th National Spring Meeting of the American-Chemical-Society (ACS), New Orleans, Louisiana, April 7-11 2013	245		312	312	2013	ISI gel.	RegMed
14	Morphology of crosslinked poly(ϵ -caprolactone) microparticles	Friess F., A. Lendlein, C. Wischke	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
15	Grafting of phosphorylcholine functional groups on polycarbonate urethane surface for resisting platelet adhesion	Gao B., Feng Y., Lu J., Zhang L., Zhao M., Shi C., Khan M., Guo J.	Materials Science and Engineering C	33	5	2871	2878	2013	Scopus	RegMed
16	Influence of diisocyanate reactivity and water solubility on the formation and the mechanical properties of gelatin-based networks in water	Gebauer T., A.T. Neffe, A. Lendlein	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
17	Influence of the addition of water to amorphous switching domains on the simulated shape-memory properties of poly(L-lactide)	Ghobadi, E.; Heuchel, M.; Kratz, K.; Lendlein, A.	POLYMER	54	16	4204	4211	2013	3.379	RegMed

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18	Simulating the Shape-Memory Behavior of Amorphous Switching Domains of Poly(L-lactide) by Molecular Dynamics	Ghobadi, Ehsan; Heuchel, Matthias; Kratz, Karl; Lendlein, Andreas	MACROMOLECULAR CHEMISTRY AND PHYSICS	214	11	1273	1283	2013	2.386	RegMed
19	A thermosensitive morphine-containing hydrogel for the treatment of large-scale skin wounds	Heilmann, Sarah; Kuechler, Sarah; Wischke, Christian; Lendlein, Andreas; Stein, Christoph; Schaefer-Korting, Monika	INTERNATIONAL JOURNAL OF PHARMACEUTICS	444	1 bis 2	96	102	2013	3.458	RegMed
20	Thermally induced shape-memory effects in polymers: Quantification and related modeling approaches	Heuchel, Matthias; Sauter, Tilman; Kratz, Karl; Lendlein, Andreas	JOURNAL OF POLYMER SCIENCE PART B- POLYMER PHYSICS	51	8	621	637	2013	2.221	RegMed
21	Influence of a silicon (Si14)-based coating substrate for biomaterials on fibroblast growth and human C5a	Hiebl B., C. Hopperdietzel, H. Hünigen, F. Jung, N. Scharnagl	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	55 (4)		491	499	2013	0	RegMed
22	Influence of iodine-containing radiographic contrast media on the phenotype of erythrocytes from different laboratory animal species	Hiebl B., C. Hopperdietzel, H. Hünigen, K. Dietze, S. Klein, B. Schreier, F. Jung	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	55 (4)		473	479	2013	0	RegMed
23	Immunological investigations of oligoethylene glycols functionalized with desaminotyrosine and desaminotyrosyltyrosine	Julich-Gruner K. K., T. Roch, N. Ma, A.T. Neffe, A. Lendlein	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
24	Recent Trends in the Chemistry of Shape-Memory Polymers	Julich-Gruner, Konstanze K.; Loewenberg, Candy; Neffe, Axel T.; Behl, Marc; Lendlein, Andreas	MACROMOLECULAR CHEMISTRY AND PHYSICS	214	5	527	536	2013	2.386	RegMed
25	Book Review	Jung F.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	54		431	431	2013	0	RegMed
26	Laser doppler flux measurement for the assessment of cutaneous microcirculation critical remarks	Jung F., B. Leithäuser, H. Landgraf, M. Jünger, U. Franzeck, A. Pries, R. Sternitzky, R.P. Franke, S. Forconi	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	55 (4)		411	416	2013	0	RegMed
27	Microcirculation in hypertensive patients	Jung F., G. Pindur, P. Ohlmann, G. Spitzer, R. Sternitzky, R.P. Franke, B. Leithäuser, S. Wolf, J.-W. Park	Biorheology	50 (5-6)		241	255	2013	1.293	RegMed
28	Haemocompatibility testing of biomaterials using human platelets	Jung, F.; Braune, S.; Lendlein, A.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	53	1 bis 2	97	115	2013	0	RegMed

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29	31 Years of Clinical Hemorheology and Microcirculation	Jung, F.; Niimi, H.; Forconi, S.; Stoltz, J. F.	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	53	1 bis 2	1	2	2013	0	RegMed
30	Biomimetic design of amphiphilic polycarbonates and surface grafting onto polycarbonate urethane film as effective antibacterial agents with controlled hemocompatibility	Khan, Musammir; Feng, Yakai; Yang, Dazhi; Zhou, Wei; Tian, Hong; Han, Ying; Zhang, Li; Yuan, Wenjie; Zhang, Jin; Guo, Jintang; Zhang, Wencheng	JOURNAL OF POLYMER SCIENCE PART A- POLYMER CHEMISTRY	51	15	3166	3176	2013	3.543	RegMed
31	Effect of polystyrene and polyether imide cell culture inserts with different roughness on chondrocyte metabolic activity and gene expression profiles of aggrecan and collagen	König J., B. Kohl, K. Kratz, F. Jung, A. Lendlein, W. Ertel, G. Schulze-Tanzil	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	55 (4)		523	533	2013	0	RegMed
32	Temperature-memory polymers	Kratz K., M. Heuchel, J. Cui, A. Lendlein	245th National Spring Meeting of the American-Chemical-Society (ACS), New Orleans, Louisiana, April 7-11, 2013, Abstracts of Papers of the American Chemical Society	245		167	167	2013	ISI gel.	RegMed
33	Interaction of human umbilical vein endothelial cells (HUVEC) with platelets in vitro: Influence of platelet concentration and reactivity	Krüger A., C. Mrowietz, A. Lendlein, F. Jung	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	55		111	120	2013	0	RegMed
34	Influence of physically crosslinked gelatins on the vasculature in the avian chorioallantoic membrane	Krüger A., J. Görs, A. Zaupa, C. Löwenberg, B.F. Pierce, C. Wischke, A.T. Neffe, F. Jung, A. Lendlein	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	55		133	142	2013	0	RegMed
35	Bacterial attachment on poly[acrylonitrile-co-(2-methyl-2-propene-1-sulfonic acid)] surfaces	Landsberger P., V. Boenke, A.A. Gorbushina, K. Rodenacker, B.F. Pierce, K. Kratz, A. Lendlein	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
36	Magnetocardiography in patients with acute chest pain and bundle branch block	Leithauser B., Park J.-W., Hill P., Lam Y.-Y., Jung F.	International Journal of Card	168	1	582	583	2013	5.509	RegMed

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37	Advanced Functional Polymers for Medicine	Lendlein A. , A.T. Neffe	Macromol Biosci	13 (12)		1639	1639	2013	IF 3.742	RegMed
38	Advanced functional polymers in medicine	Lendlein A. , A.T. Neffe	Macromol Symp	334		7	8	2013	Scopus	RegMed
39	Magnetically triggered memory-effects of active nanocomposites	Lendlein A., M. Y. Razaq, K. Kratz, M. Behl	245th National Spring Meeting of the American-Chemical-Society (ACS), New Orleans, Louisiana, April 7-11, 2013, Abstracts of Papers of the American Chemical Society	245		164	164	2013	ISI gel.	RegMed
40	Shape-Memory Effect in Polymers	Lendlein, Andreas; Sauter, Tilman	MACROMOLECULAR CHEMISTRY AND PHYSICS	214	11	1175	1177	2013	2.386	RegMed
41	Progress in Biopolymer-Based Biomaterials and Their Application in controlled drug delivery	Neffe A. T., C. Wischke, M. Racheva, A. Lendlein	Expert Rev Med Devic	10 (6)		813	833	2013	12.433	RegMed
42	Poly(ethylene glycol) Grafting to Poly(ether imide) Membranes: Influence on Protein Adsorption and Thrombocyte Adhesion	Neffe A. T., M. von Ruesten-Lange, S. Braune, K. Luetzow, T. Roch, K. Richau, F. Jung, A. Lendlein	Macromol Biosci	13 (12)		1720	1728	2013	3.742	RegMed
43	Tailoring of Mechanical Properties of Diisocyanate Crosslinked Gelatin-Based Hydrogels	Neffe A.T., T. Gebauer, A. Lendlein	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
44	Shape-memory properties of hydrogels having a poly(ϵ -caprolactone) crosslinker and switching segment in an aqueous environment	Nochel U., Reddy C.S., Uttamchand N.K., Kratz K., Behl M., Lendlein A.	European Polymer Journal	49	9	2457	2466	2013	2.562	RegMed
45	The role of alternating current electric field for cell adhesion on 2D and 3D biomimetic scaffolds based on polymer materials and adhesive proteins	Pehlivanova V., Krasteva V., Seifert B., Lutzow K., Tsoneva I., Becker T., Richau K., Lendlein A., Tzoneva R.	Journal of Materials Research	28	16	2180	2186	2013	1.713	RegMed

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46	Influence of drying procedures on network formation and properties of hydrogels from functionalized gelatin	Racheva M., K.K. Julich-Grüner, U. Nöchel, A. T. Neffe, C. Wischke, A. Lendlein	Macromol Symp	334		24	32	2013	Scopus	RegMed
47	Multifunctional Hybrid Nanocomposites with Magnetically Controlled Reversible Shape-Memory Effect	Razzaq M.Y., Behl M., Kratz K., Lendlein A.	Advanced Materials					2013	14.829	RegMed
48	Triple-Shape Effect in Polymer-Based Composites by Cleverly Matching Geometry of Active Component with Heating Method	Razzaq M.Y., Behl M., Kratz K., Lendlein A.	Advanced Materials					2013	14.829	RegMed
49	The influence of polystyrene and poly(ether imide) inserts with different roughness, on the activation of dendritic cells	Roch T., K. Kratz, N. Ma, F. Jung, A. Lendlein	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	55		157	168	2013	0	RegMed
50	The influence of the co-monomer ratio of poly[acrylonitrile-co-(N-vinylpyrrolidone)]s on primary human monocyte-derived dendritic cells	Roch T., M. Behl, M. Zierke, B.F. Pierce, K. Kratz, T. Weigel, N. Ma, A. Lendlein	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
51	Influence of fibre diameter and orientation of electrospun copolyetheresterurethanes on smooth muscle and endothelial cell behavior	Rüder C., T. Sauter, K. Kratz, T. Haase, J. Peter, F. Jung, A. Lendlein, D. Zohlhöfer	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	55 (4)		513	522	2013	0	RegMed
52	Manufacturing and Characterization of Controlled Foaming of Single Layers in Bilayer Constructs Differing in Pore Morphology	Saatchi M., M. Behl, A. Lendlein	Macromol Symp	334		33	39	2013	Scopus	RegMed
53	Pore morphology as structural parameter to tailor the shape-memory effect of polyetherurethane foams	Sauter T., K. Lützwow, M. Schossig, H. Kosmella, T. Weigel, K. Kratz, A. Lendlein	245th National Spring Meeting of the American-Chemical-Society (ACS), New Orleans, Louisiana, April 7-11, 2013, Abstracts of Papers of the American Chemical Society	245		216	216	2013	ISI gel.	RegMed
54	Quantifying the Shape-Memory Effect of Polymers by Cyclic Thermomechanical Tests	Sauter, Tilman; Heuchel, Matthias; Kratz, Karl; Lendlein, Andreas	POLYMER REVIEWS	53	1	6	40	2013	7.794	RegMed

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55	Pore-Size Distribution Controls Shape-Memory Properties on the Macro- and Microscale of Polymeric Foams	Sauter, Tilman; Kratz, Karl; Lendlein, Andreas	MACROMOLECULAR CHEMISTRY AND PHYSICS	214	11	1184	1188	2013	2.386	RegMed
56	Correlating the Uptake and Dendritic Cell Activation by MDP-loaded Microparticles	Schmidt S. , T. Roch, S. Mathew, N. Ma, C. Wischke, A. Lendlein	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
57	Synthesis and Properties of Poly(p-phenylene ethynylene)s with Oxidation- and Reduction-Sensitive Moieties	Schroeter, Michael; Behl, Marc; Kaiser, Christian; Lendlein, Andreas	MACROMOLECULAR CHEMISTRY AND PHYSICS	214	11	1215	1224	2013	2.386	RegMed
58	An annulus fibrosus closure device based on a biodegradable shape-memory polymer network	Sharifi S., van Kooten T.G., Kranenburg H.J.C., Meij B.P., Behl M., Lendlein A., Grijpma D.W.	Biomaterials	34	33	8105	8113	2013	7.604	RegMed
59	Culture surface influence on T-cell phenotype and function	Shimaz Hashimdeen S., A. Römhild, M. Schmück, K. Kratz, A. Lendlein, A. Kurtz, P. Reinke	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	55 (4)		501	512	2013	0	RegMed
60	The contemporary role of epsilon-caprolactone chemistry to create advanced polymer architectures	Sisson, Adam L.; Ekinici, Duygu; Lendlein, Andreas	POLYMER	54	17	4333	4350	2013	3.379	RegMed
61	Surfactant free preparation of biodegradable dendritic polyglycerol nanogels by inverse nanoprecipitation for encapsulation and release of pharmaceutical biomacromolecules	Steinhilber, Dirk; Witting, Madeleine; Zhang, Xuejiao; Staegemann, Michael; Paulus, Florian; Friess, Wolfgang; Kuechler, Sarah; Haag, Rainer	JOURNAL OF CONTROLLED RELEASE	169	3	289	295	2013	7.633	RegMed
62	Immobilized bioactive agents onto polyurethane surface with heparin and phosphorylcholine group	Tan, Mingqi; Feng, Yakai; Wang, Heyun; Zhang, Li; Khan, Musammir; Guo, Jintang; Chen, Qingliang; Liu, Jianshi	MACROMOLECULAR RESEARCH	21	5	541	549	2013	1.639	RegMed
63	ABA triblock copolymer based hydrogels with thermo-sensitivity for biomedical applications	Tartivel L. , M. Behl, M. Schroeter, A. Lendlein	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
64	Local drug delivery by personalized, intra-operative custom made implant coating	Trajkovski B., A. Petersen, C. Perka, N. Scharnagl, C. Wischke, W. Wagermaier, A. Lendlein, G.N. Duda	J Biomed Mater Res B - Appl Biomater.	101B		950	961	2013	2.308	RegMed
65	Test system for evaluating the influence of polymer properties on primary human keratinocytes and fibroblasts in mono- and coculture	Trescher, Karoline; Roch, Toralf; Cui, Jing; Kratz, Karl; Lendlein, Andreas; Jung, Friedrich	JOURNAL OF BIOTECHNOLOGY	166	1 bis 2	58	64	2013	3.183	RegMed

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66	Efficient synthesis of pure monotosylated beta-cyclodextrin and its dimers	Tripodo G., C. Wischke, A.T. Neffe	Carbohyd Res	381		59	63	2013	2.044	RegMed
67	Comparison of memory effects in multiblock copolymers and covalently crosslinked multiphase polymer networks composed of the same types of oligoester segments and urethane linker	Wang L., U. Nöchel, M. Behl, K. Kratz, A. Lendlein	Mater. Res. Soc. Symp. Proc.	1569				2013	0	RegMed
68	Fabrication and characterization of electrospun gelatin-heparin nanofibers as vascular tissue engineering	Wang, Heyun; Feng, Yakai; Fang, Zichen; Xiao, Ruofang; Yuan, Wenjie; Khan, Musammir	MACROMOLECULAR RESEARCH	21	8	860	869	2013	1.639	RegMed
69	Non-Viral Gene Delivery Methods	Wang, Weiwei; Li, Wenzhong; Ma, Nan; Steinhoff, Gustav	CURRENT PHARMACEUTICAL BIOTECHNOLOGY	14	1	46	60	2013	2.690	RegMed
70	Streptamer versus tetramer-based selection of functional cytomegalovirus-specific T cells	Wang, Xin-Chao; Pang, Hua; Xu, Xun; Schmitt, Anita; Freund, Mathias; Schmitt, Michael; Chen, Bao-An	JOURNAL OF THE FORMOSAN MEDICAL ASSOCIATION	112	6	338	345	2013	1.000	RegMed
71	A multifunctional bilayered microstent as glaucoma drainage devices	Wischke C., A.T. Neffe, B.D. Hanh, C.F. Kreiner, K. Sternberg, O. Stachs, R. F. Guthoff, A. Lendlein	J. Control. Release	172 (3)		1002	1010	2013	IF 7.633	RegMed
72	Sustained release hydrogels by in situ polymerized polyalkylcyanoacrylate coating	Wischke C., C. Schneider, A.T. Neffe, A. Lendlein	J. Control Release	172 (1)		e22	e22	2013	7.630	RegMed
73	Drug-releasing shape-memory polymers - the role of morphology, processing effects, and matrix degradation	Wischke, Christian; Behl, Marc; Lendlein, Andreas	EXPERT OPINION ON DRUG DELIVERY	10	9	1193	1205	2013	4.869	RegMed
74	Endothelial cell response to (co)polymer nanoparticles depending on the inflammatory environment and comonomer ratio	Wischke, Christian; Krueger, Anne; Roch, Toralf; Pierce, Benjamin F.; Li, Wenzhong; Jung, Friedrich; Lendlein, Andreas	EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMA-CEUTICS	84	2	288	296	2013	3.826	RegMed
75	Polyalkylcyanoacrylates as in situ formed diffusion barriers inmultimaterial drug carriers	Wischke, Christian; Schneider, Cornelius; Neffe, Axel T.; Lendlein, Andreas	JOURNAL OF CONTROLLED RELEASE	169	3	321	328	2013	7.633	RegMed
76	Cultivation and spontaneous differentiation of rat bone marrow-derived mesengymal stem cells on polymeric surfaces	Xu X., K. Kratz, W. Wang, Z. Li, T. Roch, F. Jung, A. Lendlein, N. Ma	CLINICAL HEMORHEOLOGY AND MICROCIRCULATION	55		143	156	2013	0	RegMed

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77	Functionalization of Polycarbonate Surfaces by Grafting PEG and Zwitterionic Polymers with a Multicomb Structure	Yang J., J. Lv, M. Behl, A. Lendlein, D. Yang, L. Zhang, C. Shi, J. Guo, Y. Feng	Macromol Biosci.	13 (12)		1681	1688	2013	3.742	RegMed
78	Hemocompatible surface of electrospun nanofibrous scaffolds by ATRP modification	Yuan W., Feng Y., Wang H., Yang D., An B., Zhang W., Khan M., Guo J.	Materials Science and Engineering C	33	7	3644	3651	2013	Scopus	RegMed
79	Amphiphilic depsipeptide-based block copolymers as nanocarriers for controlled release of ibuprofen with doxorubicin	Zhang, Li; Feng, Yakai; Tian, Hong; Zhao, Miao; Khan, Musammir; Guo, Jintang	JOURNAL OF POLYMER SCIENCE PART A- POLYMER CHEMISTRY	51	15	3213	3226	2013	3.543	RegMed
80	Shape-memory polymers with multiple transitions: complex actively moving polymers	Zhao, Qian; Behl, Marc; Lendlein, Andreas	SOFT MATTER	9	6	1744	1755	2013	3.909	RegMed

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1	High-resolution modelling of mid-Holocene New Zealand climate at 6000 yr BP	Ackerley D., Lorrey A., Renwick J., Phipps S.J., Wagner S., Fowler A.	Holocene	23	9	1272	1285	2013	3.218	PACES
2	Continental-scale temperature variability during the past two millennia	Ahmed, Moinuddin; Anchukaitis, Kevin J.; Asrat, Asfawossen; Borgaonkar, Hemant P.; Braida, Martina; Buckley, Brendan M.; Buntgen, Ulf; Chase, Brian M.; Christie, Duncan A.; Cook, Edward R.; Curran, Mark A. J.; Diaz, Henry F.; Esper, Jan; Fan, Ze-Xin; Gaire, Narayan P.; Ge, Quansheng; Gergis, Joelle; Gonzalez-Rouco, J. Fidel; Goosse, Hugues; Grab, Stefan W.; Graham, Nicholas; Graham, Rochelle; Grosjean, Martin; Hanhijarvi, Sami T.; Kaufman, Darrell S.; Kiefer, Thorsten; Kimura, Katsuhiko; Korhola, Atte A.; Krusic, Paul J.; Lara, Antonio; Lezine, Anne-Marie; Ljungqvist, Fredrik C.; Lorrey, Andrew M.; Luterbacher, Jurg; Masson-Delmotte, Valerie; McCarroll, Danny; McConnell, Joseph R.; McKay, Nicholas P.; Morales, Mariano S.; Moy, Andrew D.; Mulvaney, Robert; Mundo, Ignacio A.; Nakatsuka, Takeshi; Nash, David J.; Neukom, Raphael; Nicholson, Sharon E.; Oerter, Hans; Palmer, Jonathan G.; Phipps, Steven J.; Prieto, Maria R.; Rivera, Andres; Sano, Masaki; Severi, Mirko; Shanahan, Timothy M.; Shao, Xuemei; Shi, Feng; Sigl, Michael; Smerdon, Jason E.; Solomina, Olga N.; Steig, Eric J.; Stenni, Barbara; Thamban, Meloth; Trouet, Valerie; Turney, Chris S. M.; Umer, Mohammed; van Ommen, Tas; Verschuren, Dirk; Viau, Andre E.; Villalba, Ricardo; Vinther, Bo M.; von Gunten, Lucien; Wagner, Sebastian; Wahl, Eugene B.	NATURE GEOSCIENCE	6	5	339	346	2013	12.367	PACES
3	Thick-shelled, grazer-protected diatoms decouple ocean carbon and silicon cycles in the iron-limited Antarctic Circumpolar Current	Assmy, P., Smetacek, V., Montresor, M., (...), Webb, A., Wolf-Gladrow, D.	Proceedings of the National Academy of Sciences of the United States of America	110	51	20633	20638	2013	Scopus	PACES

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4	The expectation of future precipitation change over the Mediterranean region is different from what we observe	Barkhordarian, Armineh; von Storch, Hans; Bhend, Jonas	CLIMATE DYNAMICS	40	1 bis 2	225	244	2013	4.231	PACES
5	Reconstructions of past and prediction of future benzo (a) pyrene concentrations over Europe	Bieser, J. Aulinger, A., et al.	NATO Science and Security Series C	137		59	63	2013	Scopus	PACES
6	Influence of emissions on regional atmospheric mercury concentrations	Bieser, J., Aulinger A., et al.	Proceedings of the 16TH international conference on heavy metals in the environment	E3S		27002		2013	Proceeding	PACES
7	Climate of the last millennium: Ensemble consistency of simulations and reconstructions	Bothe, O., Jungclaus, J., Zorita, E., et al.	Climate of the past	9	03. Jan	1089	1110	2013	3.556	PACES
8	Is there memory in precipitation?	Bunde, Armin; Buentgen, Ulf; Ludescher, Josef; Luterbacher, Juerg; von Storch, Hans	NATURE CLIMATE CHANGE	3	3	174	175	2013	14.472	PACES
9	Consequences of a cumulative perspective on marine environmental impacts: Offshore wind farming and seabirds at North Sea scale in context of the EU Marine Strategy Framework Directive	Busch, Malte; Kannen, Andreas; Garthe, Stefan; Jessopp, Mark	OCEAN & COASTAL MANAGEMENT	71		213	224	2013	1.597	PACES
10	A long-term climatology of medicanes	Cavicchia L., von Storch H., Gualdi S.	Climate Dynamics			1	13	2013	4.231	PACES
11	An interactive dynamic multi-objective programming model to support better land use planning	Chang Y., Kannen, A., et al.	Land use Policy	36		13	22	2013	Scopus	PACES

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12	Trends and Variability of North Pacific Polar Lows	Chen, Fei; von Storch, Hans	ADVANCES IN METEOROLOGY					2013	1.239	PACES
13	Reconstructions of surface ocean conditions from the northeast Atlantic and Nordic seas during the last millennium	Cunningham L.K., Austin W.E., Knudsen K.L., Eiriksson J., Scourse J.D., Wanamaker A.D., Butler P.G., Cage A.G., Richter T., Husum K., Hald M., Andersson C., Zorita E., Linderholm H.W., Gunnarson B.E., Sicre M.-A., Sejrup H.P., Jiang H., Wilson R.J.	Holocene	23	7	921	935	2013	3.218	PACES
14	Nitrogen isotope dynamics and fractionation during sedimentary denitrification in Boknis Eck, Baltic Sea	Dahnke, K.; Thamdrup, B.	BIOGEOSCIENCES	10	5	3079	3088	2013	3.754	PACES
15	N-2 Fluxes in sediments of the Elbe Estuary an adjacent coastal zones	Deek A., Dähnke, K., et al.	Marine Ecology Progress Series	493		9	21	2013	Scopus	PACES
16	Paleoproductivity during the middle Miocene carbon isotope events: A data-model approach	Diester-Haass, L., Emeis, K., et al.	Paleoceanmography	28	2	334	346	2013	Scopus	PACES
17	Decreasing trends in total gaseous mercury observations in baseline air at Mace Head, Ireland from 1996 to 2011	Ebinghaus, R., Jennings, S. G., et al.	Proceedings of the 16TH international conference on heavy metals in the environment,	E3S		7009		2013	Scopus	PACES
18	Comparison of the main characteristics of the daily zonally averaged surface air temperature as represented by reanalysis and seven CMIP3 models	Errasti I., Ezcurra A., Saenz J., Ibarra-Berastegi G., Zorita E.	Theoretical and Applied Climatology			1	20	2013	1.759	PACES
19	Daily scale wintertime sea surface temperature and IPC-Navidad variability in the southern Bay of Biscay from 1981 to 2010	Esnaola G., Saenz J., Zorita E., Fontan A., Valencia V., Lazure P.	Ocean Science	9	4	655	679	2013	2.164	PACES

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20	European summer temperature response to annually dated volcanic eruptions over the past nine centuries	Esper, Jan; Schneider, Lea; Krusic, Paul J.; Luterbacher, Juerg; Buentgen, Ulf; Timonen, Mauri; Sirocko, Frank; Zorita, Eduardo	BULLETIN OF VOLCANOLOGY	75	7			2013	2.653	PACES
21	Large-scale temperature response to external forcing in simulations and reconstructions of the last	Fernandez-Donado, L.; Gonzalez-Rouco, J. F.; Raible, C. C.; Ammann, C. M.; Barriopedro, D.; Garcia-Bustamante, E.; Jungclaus, J. H.; Lorenz,	CLIMATE OF THE PAST	9	1	393	421	2013	3.556	PACES
22	Observational evidence for the general presence of estuarine circulation in the waden sea	Floeser, G., Riethmüller, R., et al.	Journal of Coastal Research	65		1527	1532	2013	0.496	PACES
23	Changes in North Sea storm surge conditions for four transient future climate realizations	Gaslikova, Lidia; Grabemann, Iris; Groll, Nikolaus	NATURAL HAZARDS	66	3	1501	1518	2013	1.639	PACES
24	Amino acid composition and delta N-15 of suspended matter in the Arabian Sea: implications for organic matter sources and degradation	Gaye, B., Nagel, B., et al.	Biogeosciences	10	11	7689	7702	2013	3.754	PACES
25	A regional climate palaeosimulation for Europe in the period 1500-1990 - Part 1: Model validation	Gomez-Navarro J.J., Montavez J.P., Wagner S., Zorita E.	Climate of the Past	9	4	1667	1682	2013	3.556	PACES
26	Atmospheric annular modes in simulations over the past millennium: No long-term response to external forcing	Gomez-Navarro, J. J.; Zorita, E.	GEOPHYSICAL RESEARCH LETTERS	40	12	3232	3236	2013	3.982	PACES
27	North sea waveconditions: An analysis of four transient future climate relizations	Groll, N., Grabemann, I., Gaslikova, L.	Ocean Dynamics	157		170	184	2013	1.761	PACES
28	Climatic responses of tree-ring width and Delta13C signatures of sessile oak (Querus petraea Liebl.) on soils with con trasting water supply	Haertle, Niemeyer et al.	Plant Ecology	214	9	1147	1156	2013	1.534	PACES
29	Wave-induced irradiance variability in the upper ocean from modeling and observations	Hieronymi M., Macke A.	AIP Conference Proceedings	1531		915	918	2013	Proceeding	PACES

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30	Monte Carlo code for the study of the dynamic light field at the wavy atmosphere-ocean interface	Hieronymi, M.	JOURNAL OF THE EUROPEAN OPTICAL SOCIETY-RAPID PUBLICATIONS	8				2013	0.930	PACES
31	The dynamics of colling water discharge i a shallow, non-tidal embayment	Hofmeister, R., Bolddling, K., et al.	Continental Shelf Research	71		68	71	2013	1.889	PACES
32	Multiscale system dynamics of humans and nature in The Bahamas: perturbation, knowledge, panarchy and resilience	Holdschlag, Arnd; Ratter, Beate M. W.	SUSTAINABILITY SCIENCE	8	3	407	421	2013	2.189	PACES
33	Tropical Cyclone Winds Retrieved from Synthetic Aperture Radar	Horstmann J., Wackermann C. et al.	Oceanography	26	2	46	57	2013	2.701	PACES
34	A multi-physics ensemble of present-day climate regional simulations over the Iberian Peninsula	Jerez, Sonia; Pedro Montavez, Juan; Jimenez-Guerrero, Pedro; Jose Gomez-Navarro, Juan; Lorente-Plazas, Raquel; Zorita, Eduardo	CLIMATE DYNAMICS	40	11 bis 12	3023	3046	2013	4.231	PACES
35	C-reactive protein in blood plasma and serum samples of harbor seals (<i>Phoca vitulina</i>)	Kakuschke, A.; Proefrock, D.; Prange, A.	MARINE MAMMAL SCIENCE	29	2	E183	E192	2013	2.128	PACES
36	Stratification dynamics in a shallow reservoir under different hydro-meteorological scenarios and operational strategies	Keromoglu O., Rinke, K.	Water Resources Research	49	11	7518	7527	2013	3.149	PACES
37	Temporal variations of perfluoroalkyl substances and polybrominated diphenyl ethers in alpine snow	Kirchgeorg, Torben; Dreyer, Annekatrin; Gabrieli, Jacopo; Kehrwald, Natalie; Sigl, Michael; Schwikowski, Margit; Boutron, Claude; Gambaro, Andrea; Barbante, Carlo; Ebinghaus, Ralf	ENVIRONMENTAL POLLUTION	178		367	374	2013	3.730	PACES
38	A regional climate model hindcast for Siberia: Analysis of snow water equivalent	Klehmet K., Geyer B., Rockel B.	Cryosphere	7	4	1017	1034	2013	3.770	PACES
39	Composition of dissolved organic matter along an Atlantic Meridional Transect from fluorescence spectroscopy and Parallel Factor Analyses	Kowalczuk P., Tilsone, G.H., Roettgers R. et al.	Marine Chemistry	157		170	184	2013	3.000	PACES

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40	Pelagic molybdenum concentration anomalies and the impact of sediment resuspension on the molybdenum budget in two tidal systems of the North Sea	Kowalski N., Dellwig O., Beck M., Grawe U., Neubert N., Nagler T.F., Badewien T.H., Brumsack H.-J., van Beusekom J.E.E., Bottcher M.E.	Geochimica et Cosmochimica Acta	119		198	211	2013	3.884	PACES
41	Preface Interdisciplinary Research and Perspectives on Current and Future Storm Surges	Kremer, Hartwig; Nicholls, Robert; Ratter, Beate M. W.; Weisse, Ralf	NATURAL HAZARDS	66	3	1293	1294	2013	1.639	PACES
42	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., Barring L., Kaas E., Schmith T., Tuomenvirta H., von Storch H.	Climate Dynamics			1	2	2013	4.231	PACES
43	Inconsistencies between Long-Term Trends in Storminess Derived from the 20CR Reanalysis and Observations	Krueger, Oliver; Schenk, Frederik; Feser, Frauke; Weisse, Ralf	JOURNAL OF CLIMATE	26	3	868	874	2013	4.362	PACES
44	Chemical contaminants in the Wadden Sea: Sources, transport, fate and effects	Laane R.W.P.M., Vethaak A.D., Gandrass J., Vorkamp K., Kohler A., Larsen M.M., Strand J.	Journal of Sea Research	82		10	53	2013	1.829	PACES
45	Increase in parasite burden and associated pathology in harbour porpoises in west greenland	Lehnert K., Seibel, H., et al.	Polar Biology	37		1	11	2013	2.006	PACES
46	Morphodynamic processes of the elbe river estuary, germany: The coriolis effect, tidal asymmetry and human dredging	Li M. , Ge, J., Kappenberg, J., et al.	Frontiers of Earth Science	80		599	611	2013	0.081	PACES
47	Parameterizing bubble-mediated air-sea gas exchange and its effect on ocean ventilation	Liang J.-H., Deutsch C., McWilliams J.C., Baschek B., Sullivan P.P., Chiba D.	Global Biogeochemical Cycles	27				2013	4.682	PACES

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48	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					2013	2.655	PACES
49	No microzooplankton grazing during a Mediopyxis helysia dominated diatom bloom	Loebl M., van Beusekom J.E.E., Philippart C.J.M.	Journal of Sea Research	82		80	85	2013	1.829	PACES
50	Deposition of polycyclic aromatic hydrocarbons in the North Pacific and the Arctic	Ma Y., Xie Z., Yang H., Moller A., Halsall C., Cai M., Sturm R., Ebinghaus R.	Journal of Geophysical Research D: Atmospheres	118	11	5822	5829	2013	3.174	PACES
51	The relation of the planetary boundary layer height to the vertical aerosol distribution in chemistry transport models	Matthias V. , Aulinger, A., et al	NATO Science and Security Series C	137		553	556	2013	Scopus	PACES
52	Regional modelling of atmospheric mercury: impact of meteorological variables	Matthias V., Aulinger, A., et al.	Proceedings of the 16TH international conference on heavy metals in the environment	E3S		27006			Scopus	PACES
53	Integrated, ecosystem-based Marine Spatial Planning: Design and results of a game-based, quasi-experiment	Mayer I., Zhou Q., Lo J., Abspoel L., Keijser X., Olsen E., Nixon E., Kannen A.	Ocean and Coastal Management	82		7	26	2013	1.597	PACES
54	Intensified Southern Hemisphere Westerlies regulated atmospheric CO2 during the last deglaciation	Mayr, C.; Luecke, A.; Wagner, S.; Wissel, H.; Ohlendorf, C.; Haberzettl, T.; Oehlerich, M.; Schaebitz, F.; Wille, M.; Zhu, J.; Zolitschka, B.	GEOLOGY	41	8	831	834	2013	4.087	PACES
55	A 1200-year multiproxy record of tree growth and summer temperatur at the northern pine forest limit of multiproxy record ot tree growth and summer temperatur at the northern pine forest limit of Europe	McCarrol D.	The Holocene	23	4	471	484	2013	3.218	PACES

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56	Evaluation and Improvement of an Iterative Scattering Correction Scheme for in situ Absorption and Attenuation Measurements	McKee, David; Piskozub, Jacek; Roettgers, Ruediger; Reynolds, Rick A.	JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY	30	7	1527	1541	2013	1.693	PACES
57	On the probability of underwater glider loss due to collision with a ship	Merckelbach L.	Journal of Marine Science and Technology	18	1	75	86	2013	0.845	PACES
58	Impact of swimming behaviour and nutrient limitation on predator-prey interactions in pelagic microbial food webs	Meunier C.L., Schulz K., Boersma M., Malzahn A.M.	Journal of Experimental Marine Biology and Ecology	446		29	35	2013	2.263	PACES
59	Evaluation of immune and stress status in harbour porpoises (<i>Phocoena phocoena</i>): can hormones and mRNA expression levels serve as indicators to assess stress?	Mueller, Sabine; Lehnert, Kristina; Seibel, Henrike; Driver, Joerg; Ronnenberg, Katrin; Teilmann, Jonas; van Elk, Cornelius; Kristensen, Jakob; Everaarts, Eligius; Siebert, Ursula	BMC VETERINARY RESEARCH	9				2013	1.861	PACES
60	Atmospheric boundary layer rolls: Quantification of their effect on the hydrodynamics in the German Bight	Müller S., Stanev E.V., et al.	Journal of Geophysical Research	118	10	5036	5053	2013	3.174	PACES
61	N-cycling and balancing of the N-deficit generated in the oxygen minimum zone over the Namibian shelf-An isotope-based approach	Nagel, Birgit; Emeis, Kay-Christian; Flohr, Anita; Rixen, Tim; Schlarbaum, Tim; Mohrholz, Volker; van der Plas, Anja	JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES	118	1	361	371	2013	3.174	PACES
62	An overview of ecological status, vulnerability and future perspectives of European large shallow, semi-enclosed coastal systems, lagoons and transitional waters	Newton A., Icelly J., Cristina S., Brito A., Cardoso A.C., Colijn F., Riva S.D., Gertz F., Hansen J.W., Holmer M., Ivanova K., Leppakoski E., Canu D.M., Mocenni C., Mudge S., Murray N., Pejrup M., Razinkovas A., Reizopoulou S., Perez-Ruzafa A., Schernewski G., Schubert H., Carr L., Solidoro C., PierluigiViaroli, Zaldivar J.-M.	Estuarine, Coastal and Shelf Science					2013	2.324	PACES
63	Seasonal variability of the water residence time in the madura Strait, East Java, Indonesia	Nugrahadi M.S., Duwe K., Schroeder F., Goldmann D.	Asian Journal of Water, Environment and Pollution	10	1	117	128	2013	Scopus	PACES
64	Contribution to a biooptical model for remote sensing of Lena River water	Orek, H., Doerffer, R., Roettgers, R., et al.	Biogeosciences	10	11	7081	7094	2013	3.754	PACES

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65	Toward the next generation of air quality monitoring: Mercury	Pirrone N., Aas W., Cinnirella S., Ebinghaus R., Hedgecock I.M., Pacyna J., Sprovieri F., Sunderland E.M.	Atmospheric Environment					2013	3.110	PACES
66	Tipping from the holocene to anthropocene: How threatened are major world deltas"	Renaud, F.G., Friedrich, J., et al.	Current Opinion in Environmental Sustainability	5		644	654	2013	3.168	PACES
67	Influence of the circumglobal wave-train on European summer precipitation	Saeed S., Van Lipzig N., Muller W.A., Saeed F., Zanchettin D.	Climate Dynamics			1	13	2013	4.231	PACES
68	Increased carbon dioxide availability alters phytoplankton stoichiometry and affects carbon cycling and growth of a marine planktonic herbivore	Schoo, Katherina L.; Malzahn, Arne M.; Krause, Evamaria; Boersma, Maarten	MARINE BIOLOGY	160	8	2145	2155	2013	2.468	PACES
69	Development and application of the MERMAID water quality monitoring station in the brantas River, Java, Indonesia	Schroeder F., Boer M., Wijanarko D.A.	Asian Journal of Water, Environment and Pollution	10	1	25	39	2013	Scopus	PACES
70	Water quality time-series data of the lower brantas River, East Java, Indonesia: Results from an automated water quality monitoring station	Schroeder F., Knauth H.-D.	Asian Journal of Water, Environment and Pollution	10	1	55	72	2013	Scopus	PACES

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1	Strong increase in convective precipitation in response to higher temperatures	Berg, Peter; Moseley, Christopher; Haerter, Jan O.	NATURE GEOSCIENCE	6	3	181	185	2013	12.367	CSC
2	Mitigation, adaptation or climate engineering?	Brasseur G.P., Granier C.	Theoretical Inquiries in Law	14	1	1	20	2013	Scopus	CSC
3	Application of regional climate models to the Indian winter monsoon over the western Himalayas.	Dimri, A.P.; Yasunari, T.; Wiltshire, A.; Kumar, P.; Mathison, C.; Ridley, J.; Jacob, D.	Science of the Total Environment	468-469	Supplement	36	47	2013	3.258	CSC
4	Species Favourability Shift in Europe due to Climate Change: A Case Study for Fagus sylvatica L. and Picea abies (L.) Karst. Based on an Ensemble of Climate Models	Falk, W. and N. Hempelmann	Journal of Climatology	Article ID 787250, 18 pages				2013	2.886	CSC
5	Case study for the assessment of the biogeophysical effects of a potential afforestation in Europe	Galos B., Hagemann S., Hansler A., Kindermann G., Rechid D., Sieck K., Teichmann C., Jacob D.	Carbon Balance and Management	8	1			2013	Scopus	CSC
6	Ist der Fahrplan der Energiewende noch einzuhalten?	Gawel, E.; Groth, M.; Hansjuergens, B.; Faulstich, M.; Holm-Mueller, K.; Kopp, O.; Luhmann, H.-J.; Schroeer, S.	Wirtschaftsdienst : Zeitschrift fuer Wirtschaftspolitik	93	5	283	306	2013	Scopus	CSC
7	The CIRCE Simulations: Regional Climate Change Projections with Realistic Representation of the Mediterranean Sea	Gualdi, S., S. Somot, L. Li, V. Artale, M. Adani, A. Bellucci, A. Braun, S. Calmanti, A. Carillo, A. Dell'Aquila, M. Déqué, C. Dubois, A. Elizalde, A. Harzallah, D. Jacob, B. L'Hévéder, W. May, P. Oddo, P. Ruti, A. Sanna, G. Sannino, E. Scoccimarro, F. Sevault and A. Navarra	Bull. Amer. Meteor. Soc	94		65	81	2013	6.591	CSC
8	Assessing the robustness of projected precipitation changes over central Africa on the basis of a multitude of global and regional climate projections	Haensler A., Saeed F., Jacob D.	Climatic Change			1	15	2013	3.634	CSC
9	Perspectives in Modelling Climate-Hydrology Interactions	Hagemann S., Blome T., Saeed F., Stacke T.	Surveys in Geophysics			1	26	2013	4125	CSC
10	Black carbon concentration and deposition estimations in Finland by the regional aerosol-climate model REMO-HAM	Hienola, A. I., J.-P. Pietikäinen, D. Jacob, R. Pozdun, T. Petäjä, A.-P. Hyvärinen, L. Sogacheva, V.-M. Kerminen, M. Kulmala and A. Laaksonen	Atmos. Chem. Phys.	13		4033	4055	2013	5.510	CSC
11	Variability of extreme events in the Colombian Pacific and Caribbean catchment basins. Climate Dynamics	Hoyos, I., A. Baquero-Bernal, D. Jacob and B.A. Rodríguez	Climate Dynamics	40	7-8	1985	2003	2013	4231	CSC

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12	Regional changes in wind energy potential over Europe using regional climate model ensemble projections	Hueging, H., K. Born, R. Haas, D. Jacob and J.G. Pinto	Journal of Applied Meteorology and Climatology	52		903	917	2013	Scopus	CSC
13	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., Deque M., Georgievski G., Georgopoulou E., Gobiet A., Menut L., Nikulin G., Haensler A., Hempelmann N., Jones C., Keuler K., Kovats S., Kroner 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			1	16	2013	1.945	CSC
14	Impact of climate change on water resources status: A case study for Crete Island, Greece.	Koutroulis, A.G., I.K. Tsanis, I.N. Daliakopoulos and D. Jacob	Journal of Hydrology	479		146	158	2013	2.964	CSC
15	Downscaled climate change projections with uncertainty assessment over India using a high resolution multi-model approach	Kumar, P., A. Wiltshire, C. Mathison, S. Asharaf, B. Ahrens, P. Lucas-Picher, J.H. Christensen, A. Gobiet, F. Saeed, S. Hagemann, D. Jacob	Sci Total Environ					2013	3.258	CSC
16	Source attribution of carbon monoxide in India and surrounding regions during wintertime	Kumar, Rajesh; Naja, Manish; Pfister, G. G.; Barth, M. C.; Brasseur, G. P.	JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES	118	4	1981	1995	2013	3.174	CSC
17	Regional projections of North Indian climate for adaptation studies. In: Science of the Total Environment.	Mathison, C.; Wiltshire, A.; Dimri, A.P.; Falloon, P.; Jacob, D.; Kumar, P.; Moors, E.; Ridley, J.; Siderius, C.; Stoffel, M.; Yasunan, T.	Science of The Total Environment	468-469		S4	S17	2013	3.258	CSC
18	A joint effort to deliver satellite retrieved atmospheric CO2 concentrations for surface flux inversions: the ensemble median algorithm EMMA	Reuter, M.; Boesch, H.; Bovensmann, H.; Bril, A.; Buchwitz, M.; Butz, A.; Burrows, J. P.; O'Dell, C. W.; Guerlet, S.; Hasekamp, O.; Heymann, J.; Kikuchi, N.; Oshchepkov, S.; Parker, R.; Pfeifer, S.; Schneising, O.; Yokota, T.; Yoshida, Y.	ATMOSPHERIC CHEMISTRY AND PHYSICS	13	4	1771	1780	2013	5.510	CSC
19	Representation of Extreme Precipitation Events Leading to Opposite Climate Change Signals over the Congo Basin	Saeed, F., Haensler, A., Weber, T., Hagemann, S. and D. Jacob	Atmosphere	4		254	271	2013	Scopus	CSC
20	Influence of mid-latitude circulation on upper Indus basin precipitation: the explicit role of irrigation	Saeed, Fahad; Hagemann, Stefan; Saeed, Sajjad; Jacob, Daniela	CLIMATE DYNAMICS	40	01. Feb	21	38	2013	4.231	CSC

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21	Evaluation of an ensemble of regional climate model simulations over South America driven by the ERA-Interim reanalysis: model performance and uncertainties.	Solman, S.A., E. Sanchez, P. Samuelsson, R.P. da Rocha, L. Li, J. Marengo, N.L. Pessacq, A.R.C. Remedio, S.C. Chou, H. Berbery, H. Le Treut, M. de Castro and D. Jacob	CLIMATE DYNAMICS	41	5-6	1139	1157	2013	4.231	CSC
22	How Does a Regional Climate Model Modify the Projected Climate Change Signal of the Driving GCM: A Study over Different CORDEX Regions Using REMO	Teichmann, C., Eggert, B., Elizalde, A., Haensler, A., Jacob, D., Kumar, P., Moseley, C., Pfeifer, S., Rechid, D., Remedio, A.R., Ries, H., Petersen, J., Preuschmann, S., Raub, T., Saeed, F., Sieck, K. and T. Weber	Atmosphere	4		214	236	2013	Scopus	CSC
23	Water supply patterns over Germany under climate change conditions	Toelle, M. H.; Moseley, C.; Panferov, O.; Busch, G.; Knohl, A.	BIOGEOSCIENCES	10	5	2959	2972	2013	3.754	CSC
24	The simulation of European heat waves from an ensemble of regional climate models within the EURO-CORDEX project.	Vautard, R., A. Gobiet, D. Jacob, M. Belda, A. Colette, M. Déqué, J. Fernández, M. García-Díez, K. Goergen, I. Güttler, T. Halenka, T. Karacostas, E. Katragkou, K. Keuler, S. Kotlarski, S. Mayer, E. van Meijgaard, G. Nikulin, M. Patarčić, J. Scinocca, S. Sobolowski, M. Suklitsch, C. Teichmann, K. Warrach-Sagi, V. Wulfmeyer and P. Yiou (2013):	CLIMATE DYNAMICS			1	21	2013	4.231	CSC