

Annett Gebert

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

251
papers

6,605
citations

42
h-index

65
g-index

263
ext. papers

7,287
ext. citations

4.6
avg, IF

5.6
L-index

#	Paper	IF	Citations
251	Insights into the surface and biocompatibility aspects of laser shock peened Ti-22Nb alloy for orthopedic implant applications. <i>Applied Surface Science</i> , 2022 , 152816	6.7	1
250	Designing the microstructural constituents of an additively manufactured near β Ti alloy for an enhanced mechanical and corrosion response. <i>Materials and Design</i> , 2022 , 110618	8.1	3
249	Controlling the Young's modulus of a β -type Ti-Nb alloy via strong texturing by LPBF. <i>Materials and Design</i> , 2022 , 216, 110516	8.1	0
248	Design procedure for triply periodic minimal surface based biomimetic scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 126, 104871	4.1	2
247	Effect of Build Orientation on the Microstructure, Mechanical and Corrosion Properties of a Biodegradable High Manganese Steel Processed by Laser Powder Bed Fusion. <i>Metals</i> , 2021 , 11, 944	2.3	4
246	Improved corrosion behavior of a novel Fe85Cr4Mo8V2C1 tool steel processed by laser powder bed fusion. <i>Journal of Alloys and Compounds</i> , 2021 , 867, 158887	5.7	1
245	Tailoring biocompatible Ti-Zr-Nb-Hf-Si metallic glasses based on high-entropy alloys design approach. <i>Materials Science and Engineering C</i> , 2021 , 121, 111733	8.3	8
244	Rolled-Up Metal Oxide Microscaffolds to Study Early Bone Formation at Single Cell Resolution. <i>Small</i> , 2021 , 17, e2005527	11	2
243	Effect of silver additions on the microstructure, mechanical properties and corrosion behavior of biodegradable Fe-30Mn-6Si. <i>Materials Today Communications</i> , 2021 , 28, 102689	2.5	1
242	Effect of silicon content on the microstructure evolution, mechanical properties, and biocompatibility of β -type TiNbZrTa alloys fabricated by laser powder bed fusion.. <i>Materials Science and Engineering C</i> , 2021 , 112625	8.3	2
241	Effect of Selective Laser Melting on Microstructure, Mechanical, and Corrosion Properties of Biodegradable FeMnCS for Implant Applications. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000182	3.5	12
240	Superhydrophilic nanostructured surfaces of beta Ti 29Nb alloy for cardiovascular stent applications. <i>Surface and Coatings Technology</i> , 2020 , 396, 125965	4.4	7
239	Corrosion of Al-3.5Cu-1.5 Mg β Si alloy prepared by selective laser melting and heat treatment. <i>Intermetallics</i> , 2020 , 124, 106871	3.5	6
238	Mechanical performance and corrosion behaviour of Zr-based bulk metallic glass produced by selective laser melting. <i>Materials and Design</i> , 2020 , 189, 108532	8.1	22
237	Calciothermic Synthesis of Very Fine, Hydrogenated Ti and TiNb Powder for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901210	3.5	
236	Electrodeposition of Sr-substituted hydroxyapatite on low modulus beta-type Ti-45Nb and effect on in vitro Sr release and cell response. <i>Materials Science and Engineering C</i> , 2020 , 108, 110425	8.3	11
235	A comparative study of the influence of the deposition technique (electrodeposition versus sputtering) on the properties of nanostructured FePd films. <i>Science and Technology of Advanced Materials</i> , 2020 , 21, 424-434	7.1	6

234	Catechol Containing Polyelectrolyte Complex Nanoparticles as Local Drug Delivery System for Bortezomib at Bone Substitute Materials. <i>Pharmaceutics</i> , 2020 , 12,	6.4	1
233	Catastrophic stress corrosion failure of Zr-base bulk metallic glass through hydrogen embrittlement. <i>Corrosion Science</i> , 2019 , 159, 108057	6.8	6
232	Cyclic deformation characteristics of the metastable β -type Ti ₄₀ Nb alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 761, 137966	5.3	8
231	Comparative study of the sustainable preparation of FeMn thin films via electrodeposition and magnetron co-sputtering. <i>Surface and Coatings Technology</i> , 2019 , 375, 182-196	4.4	5
230	Comparing selective corrosion of Au-based amorphous, partially amorphous, and devitrified alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 745, 212-216	5.7	4
229	S and B microalloying of biodegradable Fe-30Mn-1C - Effects on microstructure, tensile properties, in vitro degradation and cytotoxicity. <i>Materials and Design</i> , 2018 , 142, 22-35	8.1	17
228	Thermomechanical processing of In-containing β -type Ti-Nb alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 79, 283-291	4.1	10
227	Corrosion studies on Fe-30Mn-1C alloy in chloride-containing solutions with view to biomedical application. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018 , 69, 167-177	1.6	12
226	Metal release and cell biological compatibility of beta-type Ti-40Nb containing indium. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 1686-1697	3.5	10
225	Effects of thermomechanical history and environment on the fatigue behavior of (β)Ti-Nb implant alloys. <i>MATEC Web of Conferences</i> , 2018 , 165, 06001	0.3	3
224	Effects of new beta-type Ti-40Nb implant materials, brain-derived neurotrophic factor, acetylcholine and nicotine on human mesenchymal stem cells of osteoporotic and non osteoporotic donors. <i>PLoS ONE</i> , 2018 , 13, e0193468	3.7	10
223	Electrodeposition of manganese layers from sustainable sulfate based electrolytes. <i>Surface and Coatings Technology</i> , 2018 , 334, 261-268	4.4	12
222	On sample size effects in fracture toughness determination of Bulk Metallic Glasses. <i>Engineering Fracture Mechanics</i> , 2018 , 202, 500-507	4.2	3
221	Fatigue properties of a new generation β -type Ti-Nb alloy for osteosynthesis with an industrial standard surface condition. <i>International Journal of Fatigue</i> , 2017 , 103, 147-156	5	5
220	Synthesis of spherical nanocrystalline titanium hydride powder via calciothermic low temperature reduction. <i>Scripta Materialia</i> , 2017 , 130, 256-259	5.6	7
219	Ultrafine-grained Ti-40Nb prepared by reactive milling of the elements in hydrogen. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 1244-1249	5.7	7
218	Functionalization of Ti-40Nb implant material with strontium by reactive sputtering. <i>Biomaterials Research</i> , 2017 , 21, 18	16.8	1
217	Powder metallurgical processing of low modulus β -type Ti-45Nb to bulk and macro-porous compacts. <i>Powder Technology</i> , 2017 , 322, 393-401	5.2	10

216	Novel biodegradable Fe-Mn-C-S alloy with superior mechanical and corrosion properties. <i>Materials Letters</i> , 2017 , 186, 330-333	3.3	38
215	Effect of thermomechanical processing on the mechanical biofunctionality of a low modulus Ti-40Nb alloy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 65, 137-150	4.1	43
214	Self-organized double-wall oxide nanotube layers on glass-forming Ti-Zr-Si(-Nb) alloys. <i>Materials Science and Engineering C</i> , 2017 , 70, 258-263	8.3	7
213	Ab-initio and experimental study of phase stability of Ti-Nb alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 696, 481-489	5.7	30
212	Corrosion Fatigue Studies on a Bulk Glassy Zr-Based Alloy under Three-Point Bending. <i>Frontiers in Materials</i> , 2017 , 3,	4	2
211	The mechanism of generating nanoporous Au by de-alloying amorphous alloys. <i>Acta Materialia</i> , 2016 , 119, 177-183	8.4	33
210	Exploring corrosion protection of La-Fe-Si magnetocaloric alloys by passivation. <i>Intermetallics</i> , 2016 , 75, 88-95	3.5	10
209	Interplay of the Open Circuit Potential-Relaxation and the Dissolution Behavior of a Single H ₂ Bubble Generated at a Pt Microelectrode. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15137-15146	3.8	7
208	Designing new biocompatible glass-forming Ti _{75-x} Zr ₁₀ Nb _x Si ₁₅ (x = 0, 15) alloys: corrosion, passivity, and apatite formation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016 , 104, 27-38	3.5	18
207	Partially and fully de-alloyed glassy ribbons based on Au: Application in methanol electro-oxidation studies. <i>Journal of Alloys and Compounds</i> , 2016 , 667, 302-309	5.7	16
206	Anodically fabricated TiO ₂ /NbO ₂ nanotubes and their application in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5542-5552	13	38
205	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. <i>Technologies</i> , 2016 , 4, 33	2.4	16
204	Polyelectrolyte Complex Based Interfacial Drug Delivery System with Controlled Loading and Improved Release Performance for Bone Therapeutics. <i>Nanomaterials</i> , 2016 , 6,	5.4	23
203	Electrochemical deposition of hydroxyapatite on beta-Ti-40Nb. <i>Surface and Coatings Technology</i> , 2016 , 294, 186-193	4.4	26
202	Oxidation treatments of beta-type Ti-40Nb for biomedical use. <i>Surface and Coatings Technology</i> , 2016 , 302, 88-99	4.4	22
201	Thermal oxidation behavior of glass-forming Ti-Zr-(Nb)-Si alloys. <i>Journal of Materials Research</i> , 2016 , 31, 1264-1274	2.5	2
200	Effect of indium (In) on corrosion and passivity of a beta-type Ti-Nb alloy in Ringer's solution. <i>Applied Surface Science</i> , 2015 , 335, 213-222	6.7	26
199	Comparing the pitting corrosion behavior of prominent Zr-based bulk metallic glasses. <i>Journal of Materials Research</i> , 2015 , 30, 233-241	2.5	16

198	Self-Organized TiO ₂ /CoO Nanotubes as Potential Anode Materials for Lithium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 909-919	8.3	41
197	A route for recycling Nd from Nd-Fe-B magnets using Cu melts. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 997-1006	5.7	17
196	Influence of Cu ²⁺ Ion Concentration on the Uniform Electrochemical Growth of Copper Nanowires in Ordered Alumina Template. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D568-D574	3.9	5
195	The effect of surface grain reversal on the AC losses of sintered NdFeB permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 375, 43-48	2.8	5
194	Complex microshaping of bulk metallic glass surfaces by electrochemical means. <i>Journal of Materials Research</i> , 2015 , 30, 3493-3501	2.5	9
193	Effect of DyF ₃ on the corrosion behavior of hot-pressed NdFeB permanent magnets. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2015 , 66, 152-157	1.6	6
192	In Situ Electrochemical Analysis during Deformation of a Zr-Based Bulk Metallic Glass: A Sensitive Tool Revealing Early Shear Banding. <i>Advanced Engineering Materials</i> , 2015 , 17, 1532-1535	3.5	6
191	Nanostructured Ti-Zr-Pd-Si-(Nb) bulk metallic composites: Novel biocompatible materials with superior mechanical strength and elastic recovery. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1569-79	3.5	6
190	Stress-Corrosion Interactions in Zr-Based Bulk Metallic Glasses. <i>Metals</i> , 2015 , 5, 1262-1278	2.3	4
189	Stress corrosion cracking of a Zr-based bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 681-690	5.3	9
188	Electrochemical micromachining of passive electrodes [Application to bulk metallic glasses. <i>Journal of Materials Processing Technology</i> , 2015 , 219, 193-198	5.3	12
187	Influence of Co and Pd on the formation of nanostructured LaMg ₂ Ni and its hydrogen reactivity. <i>Journal of Alloys and Compounds</i> , 2014 , 582, 647-658	5.7	22
186	Phase transformations in ball-milled Ti ₄₀ Nb and Ti ₄₅ Nb powders upon quenching from the β phase region. <i>Powder Technology</i> , 2014 , 253, 166-171	5.2	27
185	Effect of Nb addition on microstructure evolution and nanomechanical properties of a glass-forming Ti ₄₇ Bi alloy. <i>Intermetallics</i> , 2014 , 46, 156-163	3.5	35
184	Investigation of early cell-surface interactions of human mesenchymal stem cells on nanopatterned β type titanium-niobium alloy surfaces. <i>Interface Focus</i> , 2014 , 4, 20130046	3.9	16
183	XPS and AES sputter-depth profiling at surfaces of biocompatible passivated Ti-based alloys: concentration quantification considering chemical effects. <i>Surface and Interface Analysis</i> , 2014 , 46, 683-688	1.5	10
182	Determination of the Young's modulus of porous β type Ti ₄₀ Nb by finite element analysis. <i>Materials & Design</i> , 2014 , 64, 1-8		18
181	Composition-dependent magnitude of atomic shuffles in Ti ₄₀ Nb martensites. <i>Journal of Applied Crystallography</i> , 2014 , 47, 1374-1379	3.8	42

180	Elastic softening of β -type Ti-Nb alloys by indium (In) additions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 39, 162-74	4.1	54
179	Tribological and corrosion properties of Al _{0.2} Si produced by selective laser melting. <i>Journal of Materials Research</i> , 2014 , 29, 2044-2054	2.5	108
178	Chemical nanoroughening of Ti40Nb surfaces and its effect on human mesenchymal stromal cell response. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 31-41	3.5	31
177	Retarding the corrosion of iron by inhomogeneous magnetic fields. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014 , 65, 803-808	1.6	6
176	Impact of magnetization state on the corrosion of sintered NdFeB magnets for e-motor applications. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014 , 65, 891-896	1.6	7
175	Polarization Studies of Zr-Based Bulk Metallic Glasses for Electrochemical Machining. <i>Journal of the Electrochemical Society</i> , 2014 , 161, E66-E73	3.9	8
174	Magnetic field templated patterning of the soft magnetic alloy CoFe. <i>Electrochimica Acta</i> , 2014 , 123, 477-484	6.7	7
173	Porous low modulus Ti40Nb compacts with electrodeposited hydroxyapatite coating for biomedical applications. <i>Materials Science and Engineering C</i> , 2013 , 33, 2280-7	8.3	25
172	Mechanical Alloying of β -Type TiNb for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2013 , 15, 262-268	3.5	17
171	Electrochemical micromachining of passive electrodes. <i>Electrochimica Acta</i> , 2013 , 109, 562-569	6.7	13
170	Capacitance performance of cobalt hydroxide-based capacitors with utilization of near-neutral electrolytes. <i>Electrochimica Acta</i> , 2013 , 90, 166-170	6.7	20
169	Controlled surface modification of Ti-40Nb implant alloy by electrochemically assisted inductively coupled RF plasma oxidation. <i>Acta Biomaterialia</i> , 2013 , 9, 9201-10	10.8	21
168	Surface treatment, corrosion behavior, and apatite-forming ability of Ti-45Nb implant alloy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 269-78	3.5	52
167	Effect of thermal stability of the amorphous substrate on the amorphous oxide growth on ZrAl(Cu,Ni) metallic glass surfaces. <i>Corrosion Science</i> , 2013 , 73, 1-6	6.8	36
166	Thermal stability of amorphous oxide in Al ₈₇ Ni ₃ Y ₁₀ metallic glass. <i>Corrosion Science</i> , 2013 , 77, 1-5	6.8	17
165	Electrodeposition of Fe-based Magnetic Alloy Nanowires. <i>Zeitschrift Fur Physikalische Chemie</i> , 2013 , 130603060405002		
164	Structured electrodeposition in magnetic gradient fields. <i>European Physical Journal: Special Topics</i> , 2013 , 220, 287-302	2.3	33
163	Enhancement of oxidation resistance of the supercooled liquid in CuZr-based metallic glass by forming an amorphous oxide layer with high thermal stability. <i>Corrosion Science</i> , 2013 , 66, 1-4	6.8	37

162	Improved plasticity and corrosion behavior in Ti ₄₀ Zr ₁₀ Cu ₃₄ Pd ₁₄ Sn ₂ metallic glass with minor additions of Nb: An alloy composition intended for biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 159-164	5.3	35
161	Designing biocompatible Ti-based metallic glasses for implant applications. <i>Materials Science and Engineering C</i> , 2013 , 33, 875-83	8.3	142
160	Thermal stability and phase transformations of martensitic Ti-Nb alloys. <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 055004	7.1	81
159	Production of Porous β -Type Ti-40Nb Alloy for Biomedical Applications: Comparison of Selective Laser Melting and Hot Pressing. <i>Materials</i> , 2013 , 6, 5700-5712	3.5	63
158	Electrochemical Deposition of Co(Cu)/Cu Multilayered Nanowires. <i>Journal of the Electrochemical Society</i> , 2013 , 160, D13-D19	3.9	15
157	Acid corrosion process of Fe-based bulk metallic glass. <i>Corrosion Science</i> , 2012 , 62, 112-121	6.8	32
156	Nanostructured β -phase Ti _{1.0} Fe _{9.0} Sn and sub- β structured Ti _{9.3} Nb _{13.3} Zr _{10.7} Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. <i>Materials Science and Engineering C</i> , 2012 , 32, 2418-2425	8.3	66
155	Clarifying the mechanism of reverse structuring during electrodeposition in magnetic gradient fields. <i>Analytical Chemistry</i> , 2012 , 84, 2328-34	7.8	23
154	Interactions between mechanically generated defects and corrosion phenomena of Zr-based bulk metallic glasses. <i>Acta Materialia</i> , 2012 , 60, 2300-2309	8.4	34
153	Dilute Magnetic Semiconductors: ab initio Studies of V doped ZnO. <i>ECS Transactions</i> , 2012 , 45, 97-108	1	2
152	Thermal Stability and Crystallization Kinetics of Ti ₄₀ Zr ₁₀ Cu ₃₄ Pd ₁₄ Sn ₂ Bulk Metallic Glass. <i>Solid State Phenomena</i> , 2012 , 188, 3-10	0.4	1
151	Micropatterning of Fe-based bulk metallic glass surfaces by pulsed electrochemical micromachining. <i>Journal of Materials Research</i> , 2012 , 27, 3033-3040	2.5	12
150	Oxidation resistance of the supercooled liquid in Cu ₅₀ Zr ₅₀ and Cu ₄₆ Zr ₄₆ Al ₈ metallic glasses. <i>Journal of Materials Research</i> , 2012 , 27, 1178-1186	2.5	28
149	Effect of magnetization state on the corrosion behaviour of NdFeB permanent magnets. <i>Corrosion Science</i> , 2011 , 53, 2843-2852	6.8	26
148	Effect of high gradient magnetic fields on the anodic behaviour and localized corrosion of iron in sulphuric acid solutions. <i>Corrosion Science</i> , 2011 , 53, 3222-3230	6.8	41
147	Hydrogen and Zr-based metallic glasses: Gas/solid absorption process and structure evolution. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 1636-1643	5.7	2
146	Electrochemical micromachining of a Zr-based bulk metallic glass using a micro-tool electrode technique. <i>Intermetallics</i> , 2011 , 19, 437-444	3.5	26
145	Casting vacuum effects on the precipitates and magnetic properties of Fe-based glassy alloys. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 1657-1664	3.9	9

144	How to obtain structured metal deposits from diamagnetic ions in magnetic gradient fields?. <i>Electrochemistry Communications</i> , 2011 , 13, 946-950	5.1	22
143	In situ analysis of three-dimensional electrolyte convection evolving during the electrodeposition of copper in magnetic gradient fields. <i>Analytical Chemistry</i> , 2011 , 83, 3275-81	7.8	25
142	The Influence of Deformation-Induced Martensitic Transformations on the Mechanical Properties of Nanocomposite Cu-Zr-(Al) Systems. <i>Advanced Engineering Materials</i> , 2011 , 13, 57-63	3.5	16
141	Electrodeposition of separated 3D metallic structures by pulse-reverse plating in magnetic gradient fields. <i>Electrochimica Acta</i> , 2011 , 56, 5174-5177	6.7	20
140	Hydrogen evolution under the influence of a magnetic field. <i>Electrochimica Acta</i> , 2011 , 56, 2665-2675	6.7	103
139	Magnetic field effects on the active dissolution of iron. <i>Electrochimica Acta</i> , 2011 , 56, 5866-5871	6.7	33
138	Corrosion behaviour of magnesium (Mg)-based bulk metallic glasses 2011 , 207-233		1
137	Dealloying of an Au-based amorphous alloy. <i>Intermetallics</i> , 2010 , 18, 2338-2342	3.5	26
136	Corrosion and pitting behaviour of ultrafine eutectic TiBeSn alloys. <i>Journal of Alloys and Compounds</i> , 2010 , 503, 19-24	5.7	12
135	Comparison of the corrosion of bulk amorphous steel with conventional steel. <i>Corrosion Science</i> , 2010 , 52, 273-281	6.8	63
134	Corrosion, passivation and breakdown of passivity of neodymium. <i>Corrosion Science</i> , 2010 , 52, 886-891	6.8	14
133	Effect of surface finishing of a Zr-based bulk metallic glass on its corrosion behaviour. <i>Corrosion Science</i> , 2010 , 52, 1711-1720	6.8	58
132	Electrocrystallisation of CoFe alloys under the influence of external homogeneous magnetic fields. Properties of deposited thin films. <i>Electrochimica Acta</i> , 2010 , 55, 819-831	6.7	35
131	Characterization of corrosion phenomena of ZrTiCuAlNi metallic glass by SEM and TEM. <i>Materials Characterization</i> , 2010 , 61, 1000-1008	3.9	35
130	Effect of shot-peening on the corrosion resistance of a Zr-based bulk metallic glass. <i>Scripta Materialia</i> , 2010 , 62, 635-638	5.6	25
129	Electrocrystallisation of metallic films under the influence of an external homogeneous magnetic field. Early stages of the layer growth. <i>Electrochimica Acta</i> , 2010 , 55, 6533-6541	6.7	17
128	Studies on the patterning effect of copper deposits in magnetic gradient fields. <i>Electrochimica Acta</i> , 2010 , 56, 297-304	6.7	30
127	Effect of hydrofluoric acid treatment on the crystallisation behaviour of ZrTiCuAlNi metallic glass. <i>Thermochimica Acta</i> , 2010 , 497, 85-95	2.9	7

126	Impact of magnetic field gradients on the free corrosion of iron. <i>Electrochimica Acta</i> , 2010 , 55, 5200-5208.	3.7	47
125	Magnetochemical Surface Structuring: Electrodeposition of Structured Metallic Layers in Magnetic Gradient Fields. <i>ECS Transactions</i> , 2009 , 25, 149-155	1	7
124	Corrosion behavior of the bulk glassy (Fe _{44.3} Cr ₅ Co ₅ Mo _{12.8} Mn _{11.2} C _{15.8} B _{5.9}) _{98.5} Y _{1.5} alloy. <i>Journal of Materials Research</i> , 2009 , 24, 1471-1479	2.5	8
123	Corrosion of a Zr-based Bulk Metallic Glass with Different Surface Finishing States. <i>ECS Transactions</i> , 2009 , 16, 1-7	1	5
122	Magnetic field effect on the anodic behaviour of a ferromagnetic electrode in acidic solutions. <i>Electrochimica Acta</i> , 2009 , 54, 2229-2233	6.7	45
121	Yielding and intrinsic plasticity of Ti ₄₇ Zr ₃₃ Ni ₁₀ Cu ₅ Be bulk metallic glass. <i>International Journal of Plasticity</i> , 2009 , 25, 1540-1559	7.6	93
120	Microstructure and Magnetic Properties in Fe ₆₁ Co ₉ Zr ₈ Mo ₅ W _x B ₁₇ (0 ≤ x ≤ 1) Glasses and Glass-Matrix Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 511-521	2.3	16
119	Desorption of hydrogen from an electrode surface under influence of an external magnetic field □ In-situ microscopic observations. <i>Electrochemistry Communications</i> , 2009 , 11, 425-429	5.1	49
118	Effects of well-defined magnetic field gradients on the electrodeposition of copper and bismuth. <i>Electrochemistry Communications</i> , 2009 , 11, 2241-2244	5.1	45
117	Influence of press-fit parameters on the primary stability of uncemented femoral resurfacing implants. <i>Medical Engineering and Physics</i> , 2009 , 31, 160-4	2.4	19
116	The effect of magnetic field on the electrodeposition of CoFe alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 2265-2268	2.8	17
115	Passivity of polycrystalline NiMnGa alloys for magnetic shape memory applications. <i>Corrosion Science</i> , 2009 , 51, 1163-1171	6.8	25
114	Nano-porous surface states of Ti ₅₀ Al ₅₀ Co phase separated metallic glass. <i>Intermetallics</i> , 2009 , 17, 1120-1123	3.5	29
113	The metastable Mg ₆₀ Ni ₄₀ phase □ thermal behaviour, crystal structure and hydrogen reactivity of the rapidly quenched alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 475, 191-197	5.7	9
112	Passivation behaviour of structurally relaxed Zr ₄₈ Cu ₃₆ Ag ₈ Al ₈ metallic glass. <i>Journal of Alloys and Compounds</i> , 2009 , 479, 257-261	5.7	30
111	Hydrogenation of Zr ₄₀ Al ₁₀ Ni ₁₀ Bd metallic glasses by electrochemical means. <i>Journal of Alloys and Compounds</i> , 2009 , 480, 321-324	5.7	9
110	Formation of nanostructured LaMg ₂ Ni by rapid quenching and intensive milling and its hydrogen reactivity. <i>Journal of Alloys and Compounds</i> , 2009 , 481, 144-151	5.7	11
109	Work-hardening mechanisms of the Ti ₆₀ Cu ₁₄ Ni ₁₂ Sn ₄ Nb ₁₀ nanocomposite alloy. <i>Journal of Materials Research</i> , 2009 , 24, 3146-3153	2.5	11

108	Improving the performance of hydrogen storage electrodes based on mechanically alloyed Mg ₆₁ Ni ₃₀ Y ₉ . <i>Journal of Alloys and Compounds</i> , 2008 , 458, 479-486	5.7	11
107	Effect of Si on the glass-forming ability, thermal stability and magnetic properties of Fe ₇₀ Co ₁₇ Ni ₁₀ Mo ₃ W ₂ B alloys. <i>Journal of Alloys and Compounds</i> , 2008 , 459, 203-208	5.7	14
106	Pitting corrosion of Cu ₅₇ Zr metallic glasses in hydrochloric acid solutions. <i>Journal of Alloys and Compounds</i> , 2008 , 462, 60-67	5.7	70
105	Glass formability and fragility of Fe ₆₁ Co ₉ Zr ₈ Mo ₅ W _x B ₁₇ (x = 0 and 2) bulk metallic glassy alloys. <i>Intermetallics</i> , 2008 , 16, 267-272	3.5	19
104	Comparing the corrosion behaviour of Zr ₆₆ /Ti ₆₆ Nb ₁₃ Cu ₈ Ni _{6.8} Al _{6.2} bulk nanostructure-dendrite composites. <i>Intermetallics</i> , 2008 , 16, 1179-1184	3.5	11
103	Correlation between plasticity and fragility in Mg-based bulk metallic glasses with modulated heterogeneity. <i>Journal of Applied Physics</i> , 2008 , 104, 023520	2.5	34
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101	Nucleation and growth of the electrodeposited iron layers in the presence of an external magnetic field. <i>Electrochimica Acta</i> , 2008 , 53, 7972-7980	6.7	21
100	The effect of a magnetic field on the pH value in front of the electrode surface during the electrodeposition of Co, Fe and CoFe alloys. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 617, 194-202	4.1	38
99	Desorption of hydrogen from the electrode surface under influence of an external magnetic field. <i>Electrochemistry Communications</i> , 2008 , 10, 1330-1333	5.1	53
98	Corrosion behaviour of Mg ₆₅ Cu _{7.5} Ni _{7.5} Ag ₅ Zn ₅ Gd ₅ Y ₅ bulk metallic glass in aqueous environments. <i>Electrochimica Acta</i> , 2008 , 53, 3403-3411	6.7	37
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91	Investigation of nucleation processes under the influence of magnetic fields. <i>Journal of Solid State Electrochemistry</i> , 2007 , 11, 679-685	2.6	7

90	The effect of magnetic fields on the electrodeposition of iron. <i>Journal of Solid State Electrochemistry</i> , 2007 , 12, 181-192	2.6	29
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87	Bulk ultra-fine eutectic structure in TiFeB ₂ alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 28-31	5.7	39
86	Deformation behavior of a Ti ₆₆ Cu ₈ Ni _{4.8} Sn _{7.2} Nb ₁₄ nanostructured composite containing ductile dendrites. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 13-17	5.7	19
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68	Effect of a magnetic field on the local pH value in front of the electrode surface during electrodeposition of Co. <i>Journal of Electroanalytical Chemistry</i> , 2005 , 577, 19-24	4.1	30
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1	Microstructure and Magnetic Properties of Rapidly Quenched Nd _{100-x} Gax)80Fe ₂₀ (x = 0, 5, 10, and 15 at%) alloys	277-295	

