

Annett Gebert

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251
papers

6,605
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42
h-index

65
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263
ext. papers

7,287
ext. citations

4.6
avg, IF

5.6
L-index

#	Paper	IF	Citations
251	Effect of oxygen on phase formation and thermal stability of slowly cooled Zr ₆₅ Al _{7.5} Cu _{17.5} Ni ₁₀ metallic glass. <i>Acta Materialia</i> , 1998 , 46, 5475-5482	8.4	265
250	Corrosion and related mechanical properties of bulk metallic glasses. <i>Journal of Materials Research</i> , 2007 , 22, 302-313	2.5	214
249	Effect of crystalline precipitations on the mechanical behavior of bulk glass forming Zr-based alloys. <i>Scripta Materialia</i> , 1998 , 10, 805-817		172
248	Microstructure and thermal behavior of two-phase amorphous Ni ₄₀ Nb ₄₀ alloy. <i>Scripta Materialia</i> , 2005 , 53, 271-274	5.6	143
247	Designing biocompatible Ti-based metallic glasses for implant applications. <i>Materials Science and Engineering C</i> , 2013 , 33, 875-83	8.3	142
246	Tribological and corrosion properties of Al ₁₂ Si produced by selective laser melting. <i>Journal of Materials Research</i> , 2014 , 29, 2044-2054	2.5	108
245	Investigations on the electrochemical behaviour of Zr-based bulk metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 267, 294-300	5.3	104
244	Hydrogen evolution under the influence of a magnetic field. <i>Electrochimica Acta</i> , 2011 , 56, 2665-2675	6.7	103
243	Pitting corrosion of bulk glass-forming zirconium-based alloys. <i>Journal of Alloys and Compounds</i> , 2004 , 377, 290-297	5.7	96
242	Yielding and intrinsic plasticity of Ti ₄₀ Zr ₄₀ Ni ₁₀ Cu ₁₀ Be bulk metallic glass. <i>International Journal of Plasticity</i> , 2009 , 25, 1540-1559	7.6	93
241	Structural bulk metallic glasses with different length-scale of constituent phases. <i>Intermetallics</i> , 2002 , 10, 1183-1190	3.5	84
240	Thermal stability and phase transformations of martensitic Ti-Nb alloys. <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 055004	7.1	81
239	In situ high temperature XRD studies of the thermal behaviour of the rapidly quenched Mg ₇₇ Ni ₁₈ Y ₅ alloy under hydrogen. <i>Journal of Alloys and Compounds</i> , 2005 , 398, 156-164	5.7	78
238	In situ formation of two glassy phases in the Nd ₄₀ Zr ₄₀ Al ₁₀ Co alloy system. <i>Scripta Materialia</i> , 2007 , 56, 197-200	5.6	73
237	The effect of magnetic fields on the electrodeposition of cobalt. <i>Electrochimica Acta</i> , 2004 , 49, 4127-4134	3.7	71
236	Pitting corrosion of Cu ₄₀ Zr ₄₀ metallic glasses in hydrochloric acid solutions. <i>Journal of Alloys and Compounds</i> , 2008 , 462, 60-67	5.7	70
235	Corrosion behaviour of Zr-based bulk glass-forming alloys containing Nb or Ti. <i>Materials Letters</i> , 2002 , 57, 173-177	3.3	68

234	Stability of the bulk glass-forming Mg ₆₅ Y ₁₀ Cu ₂₅ alloy in aqueous electrolytes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 299, 125-135	5.3	67
233	Nanostructured β-phase TiB _{1.0} Fe _{0.0} Sn and sub-β structured TiB _{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
232	Fracture surface morphology of compressed bulk metallic glass-matrix-composites and bulk metallic glass. <i>Intermetallics</i> , 2006 , 14, 982-986	3.5	64
231	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
230	Comparison of the corrosion of bulk amorphous steel with conventional steel. <i>Corrosion Science</i> , 2010 , 52, 273-281	6.8	63
229	The influence of Co and Ga additions on the corrosion behavior of nanocrystalline NdFeB magnets. <i>Corrosion Science</i> , 2002 , 44, 1857-1874	6.8	63
228	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
227	The effect of magnetic fields on the electrodeposition of CoFe alloys. <i>Electrochimica Acta</i> , 2008 , 53, 5346-5353	6.7	58
226	Corrosion behaviour of the amorphous Mg ₆₅ Y ₁₀ Cu ₁₅ Ag ₁₀ alloy. <i>Corrosion Science</i> , 2003 , 45, 817-832	6.8	58
225	Electrochemical hydrogenation of Mg ₆₅ Cu ₂₅ Y ₁₀ metallic glass. <i>Journal of Alloys and Compounds</i> , 2004 , 364, 229-237	5.7	55
224	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
223	Effect of relaxation and primary nanocrystallization on the mechanical properties of Cu ₆₀ Zr ₂₂ Ti ₁₈ bulk metallic glass. <i>Intermetallics</i> , 2005 , 13, 1214-1219	3.5	54
222	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
221	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
220	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
219	Hydrogenation and its effect on the crystallisation behaviour of Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ metallic glass. <i>Journal of Alloys and Compounds</i> , 2000 , 298, 146-152	5.7	48
218	Impact of magnetic field gradients on the free corrosion of iron. <i>Electrochimica Acta</i> , 2010 , 55, 5200-5208	6.7	47
217	Electrochemical investigations on the bulk glass forming Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 1997 , 48, 293-297	1.6	47

216	Electrochemical Deposition of Co under the Influence of High Magnetic Fields. <i>Journal of the Electrochemical Society</i> , 2005 , 152, C817	3.9	47
215	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
214	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
213	Corrosion studies on highly textured NdFeB sintered magnets. <i>Journal of Alloys and Compounds</i> , 2006 , 415, 111-120	5.7	45
212	Microstructural inhomogeneities introduced in a Zr-based bulk metallic glass upon low-temperature annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 491, 124-130	5.3	44
211	Plastic deformation and mechanical softening of Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ bulk metallic glass during nanoindentation. <i>Journal of Materials Research</i> , 2005 , 20, 2719-2725	2.5	44
210	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
209	Composition-dependent magnitude of atomic shuffles in TiNb martensites. <i>Journal of Applied Crystallography</i> , 2014 , 47, 1374-1379	3.8	42
208	Magnetic field induced micro-convective phenomena inside the diffusion layer during the electrodeposition of Co, Ni and Cu. <i>Electrochimica Acta</i> , 2007 , 52, 6338-6345	6.7	42
207	Mechanical properties of a two-phase amorphous NiNb alloy studied by nanoindentation. <i>Scripta Materialia</i> , 2007 , 56, 85-88	5.6	42
206	Corrosion behaviour of Mg ₆₅ Y ₁₀ Cu ₂₅ metallic glass. <i>Scripta Materialia</i> , 2000 , 43, 279-283	5.6	42
205	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
204	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
203	Pitting corrosion of zirconium-based bulk glass-matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 415, 242-249	5.3	40
202	Bulk ultra-fine eutectic structure in TiFeBase alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 28-31	5.7	39
201	Anodically fabricated TiO ₂ /SnO ₂ nanotubes and their application in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5542-5552	13	38
200	Novel biodegradable Fe-Mn-C-S alloy with superior mechanical and corrosion properties. <i>Materials Letters</i> , 2017 , 186, 330-333	3.3	38
199	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

198	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
197	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
196	Effect of hydrogen on Zr ₆₅ Cu _{17.5} Al _{7.5} Ni ₁₀ metallic glass. <i>Journal of Alloys and Compounds</i> , 2001 , 314, 170-176	5.7	37
195	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
194	Effect of Nb addition on microstructure evolution and nanomechanical properties of a glass-forming TiZrBi alloy. <i>Intermetallics</i> , 2014 , 46, 156-163	3.5	35
193	Improved plasticity and corrosion behavior in TiZrCuPd 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
192	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
191	Characterization of corrosion phenomena of ZrTiCuAlNi metallic glass by SEM and TEM. <i>Materials Characterization</i> , 2010 , 61, 1000-1008	3.9	35
190	Nanostructured Zr- and Ti-based composite materials with high strength and enhanced plasticity. <i>Journal of Applied Physics</i> , 2005 , 98, 054307	2.5	35
189	Selective electrochemical dissolution in two-phase LaZrAlCuNi metallic glass. <i>Scripta Materialia</i> , 2004 , 51, 961-965	5.6	35
188	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
187	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
186	Electrochemical characterization of galvanically coupled single phases and nanocrystalline NdFeB-based magnets in NaCl solutions. <i>Journal of Applied Electrochemistry</i> , 2003 , 33, 795-805	2.6	34
185	Electrochemical deposition and modification of Cu/CoCu multilayer. <i>Electrochimica Acta</i> , 2003 , 48, 3005-3011	3.9	34
184	Grain growth effects on the corrosion behavior of nanocrystalline NdFeB magnets. <i>Corrosion Science</i> , 2002 , 44, 1097-1112	6.8	34
183	The mechanism of generating nanoporous Au by de-alloying amorphous alloys. <i>Acta Materialia</i> , 2016 , 119, 177-183	8.4	33
182	Structured electrodeposition in magnetic gradient fields. <i>European Physical Journal: Special Topics</i> , 2013 , 220, 287-302	2.3	33
181	Magnetic field effects on the active dissolution of iron. <i>Electrochimica Acta</i> , 2011 , 56, 5866-5871	6.7	33

180	A study of nucleation, growth, texture and phase formation of electrodeposited cobalt layers and the influence of magnetic fields. <i>Thin Solid Films</i> , 2006 , 515, 1694-1700	2.2	33
179	Acid corrosion process of Fe-based bulk metallic glass. <i>Corrosion Science</i> , 2012 , 62, 112-121	6.8	32
178	Influence of a magnetic field on the morphology of electrodeposited cobalt. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 261-264	2.8	32
177	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
176	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
175	Passivation behaviour of structurally relaxed Zr48Cu36Ag8Al8 metallic glass. <i>Journal of Alloys and Compounds</i> , 2009 , 479, 257-261	5.7	30
174	Studies on the patterning effect of copper deposits in magnetic gradient fields. <i>Electrochimica Acta</i> , 2010 , 56, 297-304	6.7	30
173	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
172	Characterization of oxide layers on amorphous Zr-based alloys by Auger electron spectroscopy with sputter depth profiling. <i>Applied Surface Science</i> , 2005 , 252, 162-166	6.7	30
171	Investigations of the corrosion behaviour of nanocrystalline NdFeB hot pressed magnets. <i>Journal of Alloys and Compounds</i> , 2000 , 311, 299-304	5.7	30
170	Nano-porous surface states of Ti40Al20Co phase separated metallic glass. <i>Intermetallics</i> , 2009 , 17, 1120-1123	3.5	29
169	The effect of magnetic fields on the electrodeposition of iron. <i>Journal of Solid State Electrochemistry</i> , 2007 , 12, 181-192	2.6	29
168	Hot water corrosion behaviour of Zr40Cu40Ni bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 316, 60-65	5.3	29
167	Oxidation resistance of the supercooled liquid in Cu50Zr50 and Cu46Zr46Al8 metallic glasses. <i>Journal of Materials Research</i> , 2012 , 27, 1178-1186	2.5	28
166	Corrosion behaviour of hot-pressed and die-upset nanocrystalline NdFeB-based magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 248, 121-133	2.8	28
165	Phase transformations in ball-milled Ti40Nb and Ti45Nb powders upon quenching from the β phase region. <i>Powder Technology</i> , 2014 , 253, 166-171	5.2	27
164	Limited quasicrystal formation in Zr40Ti20Cu10NiAl bulk metallic glasses. <i>Acta Materialia</i> , 2006 , 54, 4685-4692	8.4	27
163	Effects of electrochemical hydrogenation of Zr-based alloys with high glass-forming ability. <i>Intermetallics</i> , 2002 , 10, 1207-1213	3.5	27

162	Effect of indium (In) on corrosion and passivity of a beta-type TiNb alloy in Ringer's solution. <i>Applied Surface Science</i> , 2015 , 335, 213-222	6.7	26
161	Effect of magnetization state on the corrosion behaviour of NdFeB permanent magnets. <i>Corrosion Science</i> , 2011 , 53, 2843-2852	6.8	26
160	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
159	Dealloying of an Au-based amorphous alloy. <i>Intermetallics</i> , 2010 , 18, 2338-2342	3.5	26
158	Polarisation behaviour of the Zr ₅₇ Ti ₈ Nb _{2.5} Cu _{13.9} Ni _{11.1} Al _{7.5} alloy in different microstructural states in acid solutions. <i>Scripta Materialia</i> , 2004 , 50, 1379-1384	5.6	26
157	Corrosion behaviour of a Ti-base nanostructure-dendrite composite. <i>Electrochimica Acta</i> , 2005 , 50, 2461-2467	6.4	26
156	Electrochemical deposition of hydroxyapatite on beta-Ti-40Nb. <i>Surface and Coatings Technology</i> , 2016 , 294, 186-193	4.4	26
155	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
154	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
153	Passivity of polycrystalline NiMnGa alloys for magnetic shape memory applications. <i>Corrosion Science</i> , 2009 , 51, 1163-1171	6.8	25
152	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
151	Corrosion behaviour of the Mg ₆₅ Y ₁₀ Cu ₁₅ Ag ₁₀ bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 280-284	5.3	25
150	Clarifying the mechanism of reverse structuring during electrodeposition in magnetic gradient fields. <i>Analytical Chemistry</i> , 2012 , 84, 2328-34	7.8	23
149	Stability of rapidly quenched and hydrogenated Mg ₇₀ Ni ₃₀ and Mg ₇₀ Cu ₃₀ alloys in extreme alkaline medium. <i>Journal of Alloys and Compounds</i> , 2006 , 419, 319-327	5.7	23
148	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
147	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
146	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
145	How to obtain structured metal deposits from diamagnetic ions in magnetic gradient fields?. <i>Electrochemistry Communications</i> , 2011 , 13, 946-950	5.1	22

144	Prediction of the oxidation behaviour of SmCo-based magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 1226-1229	2.8	22
143	Oxidation treatments of beta-type Ti-40Nb for biomedical use. <i>Surface and Coatings Technology</i> , 2016 , 302, 88-99	4.4	22
142	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
141	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
140	Capacitance performance of cobalt hydroxide-based capacitors with utilization of near-neutral electrolytes. <i>Electrochimica Acta</i> , 2013 , 90, 166-170	6.7	20
139	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
138	Corrosion behavior of Sm-Co-based permanent magnets in oxidizing environments. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 2931-2933	2	20
137	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
136	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
135	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
134	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
133	Determination of the Young's modulus of porous β -type Ti-40Nb by finite element analysis. <i>Materials & Design</i> , 2014 , 64, 1-8		18
132	Formation of a metastable eutectic during the solidification of the alloy Ti ₆₀ Cu ₁₄ Ni ₁₂ Sn ₄ Ta ₁₀ . <i>Acta Materialia</i> , 2005 , 53, 5141-5149	8.4	18
131	Corrosion behavior of textured and isotropic nanocrystalline NdFeB-based magnets. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2979-2981	2	18
130	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
129	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
128	Mechanical Alloying of β -Type Ti-Nb for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2013 , 15, 262-268	3.5	17
127	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

126	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
125	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
124	Electrochemical response of Fe _{65.5} Cr ₄ Mo ₄ Ga ₄ P ₁₂ C5B5.5 bulk amorphous alloy in different aqueous media. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2004 , 55, 36-42	1.6	17
123	Effect of surface pretreatment on the electrochemical activity of a glass-forming ZrTiAlCuNi alloy. <i>Journal of Alloys and Compounds</i> , 2002 , 346, 222-229	5.7	17
122	Characteristics of Slowly Cooled Zr-Al-Cu-Ni Bulk Samples with Different Oxygen Content. <i>Materials Science Forum</i> , 1998 , 269-272, 797-806	0.4	17
121	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
120	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
119	Investigation of early cell-surface interactions of human mesenchymal stem cells on nanopatterned Etype titanium-niobium alloy surfaces. <i>Interface Focus</i> , 2014 , 4, 20130046	3.9	16
118	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
117	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
116	Effect of mechanical alloying conditions on the microstructure evolution and electrode characteristics of Mg ₆₃ Ni ₃₀ Y ₇ . <i>Journal of Alloys and Compounds</i> , 2006 , 416, 110-119	5.7	16
115	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. <i>Technologies</i> , 2016 , 4, 33	2.4	16
114	Electrochemical Deposition of Co(Cu)/Cu Multilayered Nanowires. <i>Journal of the Electrochemical Society</i> , 2013 , 160, D13-D19	3.9	15
113	Phase separation in liquid and amorphous NiNb alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 207-210	5.3	15
112	Corrosion, passivation and breakdown of passivity of neodymium. <i>Corrosion Science</i> , 2010 , 52, 886-891	6.8	14
111	Effect of Si on the glass-forming ability, thermal stability and magnetic properties of FeCoZrMoWB alloys. <i>Journal of Alloys and Compounds</i> , 2008 , 459, 203-208	5.7	14
110	Effect of cathodic hydrogen charging on catalytic activity of CuBf amorphous alloys. <i>Applied Catalysis A: General</i> , 2004 , 267, 1-8	5.1	14
109	Electrochemical micromachining of passive electrodes. <i>Electrochimica Acta</i> , 2013 , 109, 562-569	6.7	13

108	Ductile Ti-based nanocrystalline matrix composites. <i>Intermetallics</i> , 2006 , 14, 978-981	3.5	13
107	Stability of the Mg ₆₅ Y ₁₀ Cu ₁₅ Ag ₁₀ metallic glass in neutral and weakly acidic media. <i>Journal of Materials Research</i> , 2003 , 18, 97-105	2.5	13
106	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
105	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
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