

Annett Gebert

List of Publications by Year in descending order

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256
papers

8,123
citations

50170

46
h-index

82410

72
g-index

263
all docs

263
docs citations

263
times ranked

4794
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.8	293
2	Corrosion and related mechanical properties of bulk metallic glasses. <i>Journal of Materials Research</i> , 2007, 22, 302-313.	1.2	258
3	Effect of crystalline precipitations on the mechanical behavior of bulk glass forming Zr-based alloys. <i>Scripta Materialia</i> , 1998, 10, 805-817.	0.5	189
4	Designing biocompatible Ti-based metallic glasses for implant applications. <i>Materials Science and Engineering C</i> , 2013, 33, 875-883.	3.8	178
5	Microstructure and thermal behavior of two-phase amorphous Ni-Nb-Y alloy. <i>Scripta Materialia</i> , 2005, 53, 271-274.	2.6	152
6	Hydrogen evolution under the influence of a magnetic field. <i>Electrochimica Acta</i> , 2011, 56, 2665-2675.	2.6	146
7	Tribological and corrosion properties of Al-12Si produced by selective laser melting. <i>Journal of Materials Research</i> , 2014, 29, 2044-2054.	1.2	138
8	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.	2.6	113
9	Thermal stability and phase transformations of martensitic Ti-Nb alloys. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 055004.	2.8	107
10	Pitting corrosion of bulk glass-forming zirconium-based alloys. <i>Journal of Alloys and Compounds</i> , 2004, 377, 290-297.	2.8	104
11	Yielding and intrinsic plasticity of Ti-Zr-Ni-Cu-Be bulk metallic glass. <i>International Journal of Plasticity</i> , 2009, 25, 1540-1559.	4.1	103
12	Nanostructured β -phase Ti-31.0Fe-9.0Sn and sub- μ m structured Ti-39.3Nb-13.3Zr-10.7Ta alloys for biomedical applications: Microstructure benefits on the mechanical and corrosion performances. <i>Materials Science and Engineering C</i> , 2012, 32, 2418-2425.	3.8	90
13	Structural bulk metallic glasses with different length-scale of constituent phases. <i>Intermetallics</i> , 2002, 10, 1183-1190.	1.8	87
14	The effect of magnetic fields on the electrodeposition of cobalt. <i>Electrochimica Acta</i> , 2004, 49, 4127-4134.	2.6	87
15	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.	2.8	84
16	Pitting corrosion of Cu-Zr metallic glasses in hydrochloric acid solutions. <i>Journal of Alloys and Compounds</i> , 2008, 462, 60-67.	2.8	81
17	In situ formation of two glassy phases in the Nd-Zr-Al-Co alloy system. <i>Scripta Materialia</i> , 2007, 56, 197-200.	2.6	80
18	Comparison of the corrosion of bulk amorphous steel with conventional steel. <i>Corrosion Science</i> , 2010, 52, 273-281.	3.0	80

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19	Corrosion behaviour of Zr-based bulk glass-forming alloys containing Nb or Ti. <i>Materials Letters</i> , 2002, 57, 173-177.	1.3	77
20	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.	1.3	77
21	The influence of Co and Ga additions on the corrosion behavior of nanocrystalline NdFeB magnets. <i>Corrosion Science</i> , 2002, 44, 1857-1874.	3.0	75
22	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.	2.6	74
23	Elastic softening of β -type Ti-4Nb alloys by indium (In) additions. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 39, 162-174.	1.5	73
24	The effect of magnetic fields on the electrodeposition of CoFe alloys. <i>Electrochimica Acta</i> , 2008, 53, 5344-5353.	2.6	70
25	Effect of surface finishing of a Zr-based bulk metallic glass on its corrosion behaviour. <i>Corrosion Science</i> , 2010, 52, 1711-1720.	3.0	70
26	Magnetic field effect on the anodic behaviour of a ferromagnetic electrode in acidic solutions. <i>Electrochimica Acta</i> , 2009, 54, 2229-2233.	2.6	69
27	Fracture surface morphology of compressed bulk metallic glass-matrix-composites and bulk metallic glass. <i>Intermetallics</i> , 2006, 14, 982-986.	1.8	66
28	Impact of magnetic field gradients on the free corrosion of iron. <i>Electrochimica Acta</i> , 2010, 55, 5200-5203.	2.6	66
29	Composition-dependent magnitude of atomic shuffles in Ti-4Nb martensites. <i>Journal of Applied Crystallography</i> , 2014, 47, 1374-1379.	1.9	65
30	Corrosion behaviour of the amorphous Mg ₆₅ Y ₁₀ Cu ₁₅ Ag ₁₀ alloy. <i>Corrosion Science</i> , 2003, 45, 817-832.	3.0	64
31	Desorption of hydrogen from the electrode surface under influence of an external magnetic field. <i>Electrochemistry Communications</i> , 2008, 10, 1330-1333.	2.3	64
32	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, 101B, 269-278.	1.6	64
33	Electrochemical hydrogenation of Mg ₆₅ Cu ₂₅ Y ₁₀ metallic glass. <i>Journal of Alloys and Compounds</i> , 2004, 364, 229-237.	2.8	63
34	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.	2.3	61
35	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.	1.5	61
36	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.	1.8	58

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37	Novel biodegradable Fe-Mn-C-S alloy with superior mechanical and corrosion properties. <i>Materials Letters</i> , 2017, 186, 330-333.	1.3	58
38	Effects of well-defined magnetic field gradients on the electrodeposition of copper and bismuth. <i>Electrochemistry Communications</i> , 2009, 11, 2241-2244.	2.3	57
39	Electrochemical Deposition of Co under the Influence of High Magnetic Fields. <i>Journal of the Electrochemical Society</i> , 2005, 152, C817.	1.3	53
40	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.	2.8	52
41	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.	3.0	52
42	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.	2.6	50
43	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.	3.2	50
44	Corrosion studies on highly textured Nd-Fe-B sintered magnets. <i>Journal of Alloys and Compounds</i> , 2006, 415, 111-120.	2.8	49
45	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.	1.2	48
46	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.	2.6	48
47	Mechanical performance and corrosion behaviour of Zr-based bulk metallic glass produced by selective laser melting. <i>Materials and Design</i> , 2020, 189, 108532.	3.3	48
48	Mechanical properties of a two-phase amorphous Ni-Nb-Y alloy studied by nanoindentation. <i>Scripta Materialia</i> , 2007, 56, 85-88.	2.6	46
49	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.	5.2	46
50	Acid corrosion process of Fe-based bulk metallic glass. <i>Corrosion Science</i> , 2012, 62, 112-121.	3.0	45
51	Enhancement of oxidation resistance of the supercooled liquid in Cu-Zr-based metallic glass by forming an amorphous oxide layer with high thermal stability. <i>Corrosion Science</i> , 2013, 66, 1-4.	3.0	45
52	Effect of Nb addition on microstructure evolution and nanomechanical properties of a glass-forming Ti-Zr-Si alloy. <i>Intermetallics</i> , 2014, 46, 156-163.	1.8	45
53	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.	2.6	44
54	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.	3.1	44

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55	The mechanism of generating nanoporous Au by de-alloying amorphous alloys. <i>Acta Materialia</i> , 2016, 119, 177-183.	3.8	44
56	Corrosion behaviour of Mg ₆₅ Y ₁₀ Cu ₂₅ metallic glass. <i>Scripta Materialia</i> , 2000, 43, 279-283.	2.6	43
57	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.	1.9	43
58	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.	2.6	43
59	Bulk ultra-fine eutectic structure in Ti-Fe base alloys. <i>Journal of Alloys and Compounds</i> , 2007, 434-435, 28-31.	2.8	42
60	Magnetic field effects on the active dissolution of iron. <i>Electrochimica Acta</i> , 2011, 56, 5866-5871.	2.6	42
61	Interactions between mechanically generated defects and corrosion phenomena of Zr-based bulk metallic glasses. <i>Acta Materialia</i> , 2012, 60, 2300-2309.	3.8	42
62	Ab-initio and experimental study of phase stability of Ti-Nb alloys. <i>Journal of Alloys and Compounds</i> , 2017, 696, 481-489.	2.8	42
63	Grain growth effects on the corrosion behavior of nanocrystalline NdFeB magnets. <i>Corrosion Science</i> , 2002, 44, 1097-1112.	3.0	41
64	Effect of thermal stability of the amorphous substrate on the amorphous oxide growth on Zr-Al-(Cu,Ni) metallic glass surfaces. <i>Corrosion Science</i> , 2013, 73, 1-6.	3.0	41
65	Improved plasticity and corrosion behavior in Ti-Zr-Cu-Pd 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.	2.6	40
66	Chemical nanoroughening of Ti ₄₀ Nb 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.	1.6	40
67	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.	2.6	39
68	Structured electrodeposition in magnetic gradient fields. <i>European Physical Journal: Special Topics</i> , 2013, 220, 287-302.	1.2	39
69	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.	2.8	38
70	Electrochemical deposition and modification of Cu/Co-Cu multilayer. <i>Electrochimica Acta</i> , 2003, 48, 3005-3011.	2.6	38
71	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.	0.8	38
72	Characterization of corrosion phenomena of Zr-Ti-Cu-Al-Ni metallic glass by SEM and TEM. <i>Materials Characterization</i> , 2010, 61, 1000-1008.	1.9	38

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73	Electrochemical deposition of hydroxyapatite on beta-Ti-40Nb. <i>Surface and Coatings Technology</i> , 2016, 294, 186-193.	2.2	38
74	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 2003, 33, 795-805.	1.5	37
75	Selective electrochemical dissolution in two-phase La ₂ Zr ₂ Al ₂ Cu ₂ Ni metallic glass. <i>Scripta Materialia</i> , 2004, 51, 961-965.	2.6	37
76	Influence of a magnetic field on the morphology of electrodeposited cobalt. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 261-264.	1.0	37
77	Nanostructured Zr- and Ti-based composite materials with high strength and enhanced plasticity. <i>Journal of Applied Physics</i> , 2005, 98, 054307.	1.1	37
78	Correlation between plasticity and fragility in Mg-based bulk metallic glasses with modulated heterogeneity. <i>Journal of Applied Physics</i> , 2008, 104, 023520.	1.1	37
79	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.	2.8	36
80	Electrochemical micromachining of a Zr-based bulk metallic glass using a micro-tool electrode technique. <i>Intermetallics</i> , 2011, 19, 437-444.	1.8	36
81	In Situ Analysis of Three-Dimensional Electrolyte Convection Evolving during the Electrodeposition of Copper in Magnetic Gradient Fields. <i>Analytical Chemistry</i> , 2011, 83, 3275-3281.	3.2	36
82	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.	1.9	35
83	Studies on the patterning effect of copper deposits in magnetic gradient fields. <i>Electrochimica Acta</i> , 2010, 56, 297-304.	2.6	35
84	The effect of magnetic fields on the electrodeposition of iron. <i>Journal of Solid State Electrochemistry</i> , 2007, 12, 181-192.	1.2	33
85	Nano-porous surface states of Ti ₄₀ Al ₄₀ Co phase separated metallic glass. <i>Intermetallics</i> , 2009, 17, 1120-1123.	1.8	33
86	Hot water corrosion behaviour of Zr ₄₀ Cu ₄₀ Al ₂₀ Ni bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 316, 60-65.	2.6	32
87	Corrosion behaviour of hot-pressed and die-upset nanocrystalline NdFeB-based magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 248, 121-133.	1.0	32
88	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.	2.6	32
89	Polyelectrolyte Complex Based Interfacial Drug Delivery System with Controlled Loading and Improved Release Performance for Bone Therapeutics. <i>Nanomaterials</i> , 2016, 6, 53.	1.9	32
90	Investigations of the corrosion behaviour of nanocrystalline Nd ₄₀ Fe ₄₀ B hot pressed magnets. <i>Journal of Alloys and Compounds</i> , 2000, 311, 299-304.	2.8	31

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91	Limited quasicrystal formation in Zr-Ti-Cu-Ni-Al bulk metallic glasses. <i>Acta Materialia</i> , 2006, 54, 4685-4692.	3.8	31
92	Dealloying of an Au-based amorphous alloy. <i>Intermetallics</i> , 2010, 18, 2338-2342.	1.8	31
93	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.	1.2	31
94	Phase transformations in ball-milled Ti-40Nb and Ti-45Nb powders upon quenching from the β -phase region. <i>Powder Technology</i> , 2014, 253, 166-171.	2.1	31
95	Corrosion behavior of textured and isotropic nanocrystalline NdFeB-based magnets. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 2979-2981.	1.2	30
96	Corrosion behaviour of a Ti-base nanostructure-dendrite composite. <i>Electrochimica Acta</i> , 2005, 50, 2461-2467.	2.6	30
97	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.	3.1	30
98	Passivity of polycrystalline NiMnGa alloys for magnetic shape memory applications. <i>Corrosion Science</i> , 2009, 51, 1163-1171.	3.0	30
99	Porous low modulus Ti40Nb compacts with electrodeposited hydroxyapatite coating for biomedical applications. <i>Materials Science and Engineering C</i> , 2013, 33, 2280-2287.	3.8	30
100	Oxidation treatments of beta-type Ti-40Nb for biomedical use. <i>Surface and Coatings Technology</i> , 2016, 302, 88-99.	2.2	30
101	Prediction of the oxidation behaviour of Sm-Co-based magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 1226-1229.	1.0	29
102	Effect of magnetization state on the corrosion behaviour of NdFeB permanent magnets. <i>Corrosion Science</i> , 2011, 53, 2843-2852.	3.0	29
103	How to obtain structured metal deposits from diamagnetic ions in magnetic gradient fields?. <i>Electrochemistry Communications</i> , 2011, 13, 946-950.	2.3	29
104	Clarifying the Mechanism of Reverse Structuring during Electrodeposition in Magnetic Gradient Fields. <i>Analytical Chemistry</i> , 2012, 84, 2328-2334.	3.2	29
105	Corrosion Behavior of Sm-Co-Based Permanent Magnets in Oxidizing Environments. <i>IEEE Transactions on Magnetics</i> , 2004, 40, 2931-2933.	1.2	28
106	Capacitance performance of cobalt hydroxide-based capacitors with utilization of near-neutral electrolytes. <i>Electrochimica Acta</i> , 2013, 90, 166-170.	2.6	28
107	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.	3.3	28
108	Effects of electrochemical hydrogenation of Zr-based alloys with high glass-forming ability. <i>Intermetallics</i> , 2002, 10, 1207-1213.	1.8	27

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109	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.	2.6	27
110	Electrodeposition of separated 3D metallic structures by pulse-reverse plating in magnetic gradient fields. <i>Electrochimica Acta</i> , 2011, 56, 5174-5177.	2.6	27
111	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.	3.3	27
112	Effect of shot-peening on the corrosion resistance of a Zr-based bulk metallic glass. <i>Scripta Materialia</i> , 2010, 62, 635-638.	2.6	26
113	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.	3.8	26
114	Stability of rapidly quenched and hydrogenated Mg-Ni-Y and Mg-Cu-Y alloys in extreme alkaline medium. <i>Journal of Alloys and Compounds</i> , 2006, 419, 319-327.	2.8	25
115	Nucleation and growth of the electrodeposited iron layers in the presence of an external magnetic field. <i>Electrochimica Acta</i> , 2008, 53, 7972-7980.	2.6	25
116	A route for recycling Nd from Nd-Fe-B magnets using Cu melts. <i>Journal of Alloys and Compounds</i> , 2015, 647, 997-1006.	2.8	25
117	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.	1.6	25
118	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.	3.8	25
119	Mechanical Alloying of β -type Ti-Nb for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2013, 15, 262-268.	1.6	24
120	Controlled surface modification of Ti-40Nb implant alloy by electrochemically assisted inductively coupled RF plasma oxidation. <i>Acta Biomaterialia</i> , 2013, 9, 9201-9210.	4.1	24
121	Design procedure for triply periodic minimal surface based biomimetic scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 104871.	1.5	24
122	Designing new biocompatible glass-forming Ti ₇₅ -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.	1.6	23
123	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.	1.6	23
124	Insights into the surface and biocompatibility aspects of laser shock peened Ti-22Nb alloy for orthopedic implant applications. <i>Applied Surface Science</i> , 2022, 586, 152816.	3.1	23
125	Influence of press-fit parameters on the primary stability of uncemented femoral resurfacing implants. <i>Medical Engineering and Physics</i> , 2009, 31, 160-164.	0.8	22
126	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.	2.8	22

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127	Mechanical and Corrosion Behavior of New Generation Ti-45Nb Porous Alloys Implant Devices. Technologies, 2016, 4, 33.	3.0	22
128	Determination of the Young's modulus of porous β -type Ti-40Nb by finite element analysis. Materials & Design, 2014, 64, 1-8.	5.1	21
129	Exploring corrosion protection of La-Fe-Si magnetocaloric alloys by passivation. Intermetallics, 2016, 75, 88-95.	1.8	21
130	Designing the microstructural constituents of an additively manufactured near β Ti alloy for an enhanced mechanical and corrosion response. Materials and Design, 2022, 217, 110618.	3.3	21
131	The effect of magnetic field on the electrodeposition of CoFe alloys. Journal of Magnetism and Magnetic Materials, 2009, 321, 2265-2268.	1.0	20
132	The Influence of Deformation-Induced Martensitic Transformations on the Mechanical Properties of Nanocomposite Cu-Zr(Al) Systems. Advanced Engineering Materials, 2011, 13, 57-63.	1.6	20
133	Investigation of early cell-surface interactions of human mesenchymal stem cells on nanopatterned β -type titanium-niobium alloy surfaces. Interface Focus, 2014, 4, 20130046.	1.5	20
134	Partially and fully de-alloyed glassy ribbons based on Au: Application in methanol electro-oxidation studies. Journal of Alloys and Compounds, 2016, 667, 302-309.	2.8	20
135	Corrosion studies on Fe ₃₀ Mn ₁ C alloy in chloride-containing solutions with view to biomedical application. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 167-177.	0.8	20
136	Electrodeposition of manganese layers from sustainable sulfate based electrolytes. Surface and Coatings Technology, 2018, 334, 261-268.	2.2	20
137	Electrochemical response of Fe _{65.5} Cr ₄ Mo ₄ Ga ₄ P ₁₂ C ₅ B _{5.5} bulk amorphous alloy in different aqueous media. Materials and Corrosion - Werkstoffe Und Korrosion, 2004, 55, 36-42.	0.8	19
138	Deformation behavior of a Ti ₆₆ Cu ₈ Ni _{4.8} Sn _{7.2} Nb ₁₄ nanostructured composite containing ductile dendrites. Journal of Alloys and Compounds, 2007, 434-435, 13-17.	2.8	19
139	Phase separation in liquid and amorphous Ni-Nb-Y alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 207-210.	2.6	19
140	Glass formability and fragility of Fe ₆₁ Co ₉ xZr ₈ Mo ₅ W _x B ₁₇ (x=0 and 2) bulk metallic glassy alloys. Intermetallics, 2008, 16, 267-272.	1.8	19
141	Electrocrystallisation of metallic films under the influence of an external homogeneous magnetic field-Early stages of the layer growth. Electrochimica Acta, 2010, 55, 6533-6541.	2.6	19
142	Comparing the pitting corrosion behavior of prominent Zr-based bulk metallic glasses. Journal of Materials Research, 2015, 30, 233-241.	1.2	19
143	Formation of a metastable eutectic during the solidification of the alloy Ti ₆₀ Cu ₁₄ Ni ₁₂ Sn ₄ Ta ₁₀ . Acta Materialia, 2005, 53, 5141-5149.	3.8	18
144	Electrochemical micromachining of passive electrodes. Electrochimica Acta, 2013, 109, 562-569.	2.6	18

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145	Thermal stability of amorphous oxide in Al ₈₇ Ni ₃ Y ₁₀ metallic glass. <i>Corrosion Science</i> , 2013, 77, 1-5.	3.0	18
146	Superhydrophilic nanostructured surfaces of beta Ti-29Nb alloy for cardiovascular stent applications. <i>Surface and Coatings Technology</i> , 2020, 396, 125965.	2.2	18
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