Cuie Wen

List of Publications by Year
in descending order

324	15,958	17405 63	24179 110
papers	citations	h-index	g-index

327	327	327	13648
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Processing of biocompatible porous Ti and Mg. Scripta Materialia, 2001, 45, 1147-1153.	2.6	600
2	High Energy Density Metal-Air Batteries: A Review. Journal of the Electrochemical Society, 2013, 160, A1759-A1771.	1.3	569
3	A new look at biomedical Ti-based shape memory alloys. Acta Biomaterialia, 2012, 8, 1661-1669.	4.1	519
4	Effects of alloying elements on the corrosion behavior and biocompatibility of biodegradable magnesium alloys: a review. Journal of Materials Chemistry B, 2014, 2, 1912-1933.	2.9	382
5	A review of the application of anodization for the fabrication of nanotubes on metal implant surfaces. Acta Biomaterialia, 2012, 8, 2875-2888.	4.1	359
6	Additive manufacturing technology for porous metal implant applications and triple minimal surface structures: A review. Bioactive Materials, 2019, 4, 56-70.	8.6	348
7	Transition metal-substituted cobalt ferrite nanoparticles for biomedical applications. Acta Biomaterialia, 2013, 9, 5830-5837.	4.1	284
8	Nanostructured Silicon Anodes for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 647-678.	7.8	261
9	Ultrahigh-strength titanium gyroid scaffolds manufactured by selective laser melting (SLM) for bone implant applications. Acta Materialia, 2018, 158, 354-368.	3.8	259
10	Anisotropic Ti-6Al-4V gyroid scaffolds manufactured by electron beam melting (EBM) for bone implant applications. Materials and Design, 2018, 137, 345-354.	3.3	257
11	Mgâ€"Zrâ€"Sr alloys as biodegradable implant materials. Acta Biomaterialia, 2012, 8, 3177-3188.	4.1	251
12	A Review on Li-S Batteries as a High Efficiency Rechargeable Lithium Battery. Journal of the Electrochemical Society, 2013, 160, A1256-A1263.	1.3	251
13	Compressibility of porous magnesium foam: dependency on porosity and pore size. Materials Letters, 2004, 58, 357-360.	1.3	245
14	Processing and mechanical properties of autogenous titanium implant materials. Journal of Materials Science: Materials in Medicine, 2002, 13, 397-401.	1.7	225
15	Cytotoxicity of Titanium and Titanium Alloying Elements. Journal of Dental Research, 2010, 89, 493-497.	2.5	222
16	A comprehensive review of biodegradable synthetic polymer-ceramic composites and their manufacture for biomedical applications. Bioactive Materials, 2019, 4, 22-36.	8.6	208
17	Recent research and progress of biodegradable zinc alloys and composites for biomedical applications: Biomechanical and biocorrosion perspectives. Bioactive Materials, 2021, 6, 836-879.	8.6	192
18	Novel titanium foam for bone tissue engineering. Journal of Materials Research, 2002, 17, 2633-2639.	1.2	182

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19	A review of high energy density lithiumâ€“air battery technology. Journal of Applied Electrochemistry, 2014, 44, 5-22.	1.5	172
20	Development of Tiâ€“Nbâ€“Zr alloys with high elastic admissible strain for temporary orthopedic devices. Acta Biomaterialia, 2015, 20, 176-187.	4.1	165
21	Cell response of anodized nanotubes on titanium and titanium alloys. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2726-2739.	2.1	159
22	Porous TiNbZr alloy scaffolds for biomedical applications. Acta Biomaterialia, 2009, 5, 3616-3624.	4.1	157
23	Hydroxyapatite/titania solâ€“gel coatings on titaniumâ€“zirconium alloy for biomedical applicationsâ˜†. Acta Biomaterialia, 2007, 3, 403-410.	4.1	145
24	Ultrafine equiaxed-grain Ti/Al composite produced by accumulative roll bonding. Scripta Materialia, 2010, 62, 321-324.	2.6	138
25	Carbon Nanotube Reinforced Titanium Metal Matrix Composites Prepared by Powder Metallurgyâ€"A Review. Critical Reviews in Solid State and Materials Sciences, 2015, 40, 38-55.	6.8	137
26	Microstructure, mechanical properties, biocompatibility, and in vitro corrosion and degradation behavior of a new Znâ€“5Ge alloy for biodegradable implant materials. Acta Biomaterialia, 2018, 82, 197-204.	4.1	134
27	Microstructure and mechanical properties of carbon nanotubes reinforced titanium matrix composites fabricated via spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 688, 505-523.	2.6	123
28	Ion-substituted calcium phosphate coatings by physical vapor deposition magnetron sputtering for biomedical applications: A review. Acta Biomaterialia, 2019, 89, 14-32.	4.1	118
29	A biodegradable Zn-1Cu-0.1Ti alloy with antibacterial properties for orthopedic applications. Acta Biomaterialia, 2020, 106, 410-427.	4.1	117
30	Magnesium matrix nanocomposites for orthopedic applications: A review from mechanical, corrosion, and biological perspectives. Acta Biomaterialia, 2019, 96, 1-19.	4.1	113
31	Mechanical Properties and Press Formability at Room Temperature of AZ31 Mg Alloy Processed by Single Roller Drive Rolling. Materials Transactions, 2002, 43, 2554-2560.	0.4	110
32	Effect of surface roughness of Ti, Zr, and TiZr on apatite precipitation from simulated body fluid. Biotechnology and Bioengineering, 2008, 101, 378-387.	1.7	109
33	The influence of surface energy of titaniumâ€"zirconium alloy on osteoblast cell functions <i>in vitro</i>. Journal of Biomedical Materials Research - Part A, 2011, 97A, 27-36.	2.1	107
34	HA coating on Mg alloys for biomedical applications: A review. Journal of Magnesium and Alloys, 2020, 8, 929-943.	5.5	104
35	Effect of process control agent on the porous structure and mechanical properties of a biomedical Tiâ€“Snâ€“Nb alloy produced by powder metallurgy. Acta Biomaterialia, 2010, 6, 1630-1639.	4.1	103
36	Degradation behavior, cytotoxicity, hemolysis, and antibacterial properties of electro-deposited Znâ€“Cu metal foams as potential biodegradable bone implants. Acta Biomaterialia, 2020, 102, 481-492.	4.1	102

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37	Additive manufacturing of metallic and polymeric load-bearing biomaterials using laser powder bed fusion: A review. Journal of Materials Science and Technology, 2021, 94, 196-215.	5.6	101
38	Simultaneously enhanced strength and ductility of titanium via multimodal grain structure. Scripta Materialia, 2010, 63, 941-944.	2.6	99
39	High electrochemical stability Al-doped spinel LiMn2O4 cathode material for Li-ion batteries. Journal of Energy Storage, 2020, 27, 101036.	3.9	98
40	Microstructure evolution and nanograin formation during shear localization in cold-rolled titanium. Acta Materialia, 2010, 58, 4536-4548.	3.8	96
41	A review on hybrid nanolaminate materials synthesized by deposition techniques for energy storage applications. Journal of Materials Chemistry A, 2014, 2, 3695-3708.	5.2	96
42	Mechanical properties and bioactive surface modification via alkali-heat treatment of a porous Tiâ€"18Nbâ€"4Sn alloy for biomedical applications. Acta Biomaterialia, 2008, 4, 1963-1968.	4.1	95
43	Prospects and strategies for magnesium alloys as biodegradable implants from crystalline to bulk metallic glasses and compositesâ€"A review. Acta Biomaterialia, 2020, 103, 1-23.	4.1	95
44	Mechanical, corrosion, and biocompatibility properties of Mg-Zr-Sr-Sc alloys for biodegradable implant applications. Acta Biomaterialia, 2020, 102, 493-507.	4.1	93
45	Surfactants in Mechanical Alloying/Milling: A Catch-22 Situation. Critical Reviews in Solid State and Materials Sciences, 2014, 39, 81-108.	6.8	91
46	Fabrication of novel TiZr alloy foams for biomedical applications. Materials Science and Engineering C, 2006, 26, 1439-1444.	3.8	90
47	Influence of calcium ion deposition on apatite-inducing ability of porous titanium for biomedical applications. Acta Biomaterialia, 2009, 5, 1808-1820.	4.1	90
48	Titaniumâ€"nickel shape memory alloy foams for bone tissue engineering. Journal of the Mechanical Behavior of Biomedical Materials, 2008, 1, 269-273.	1.5	89
49	Biocompatibility of TiO₂ nanotubes with different topographies. Journal of Biomedical Materials Research - Part A, 2014, 102, 743-751.	2.1	89
50	Improving the strengthening efficiency of carbon nanotubes in titanium metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 696, 10-25.	2.6	87
51	Graphene nanoplatelets-reinforced magnesium metal matrix nanocomposites with superior mechanical and corrosion performance for biomedical applications. Journal of Magnesium and Alloys, 2020, 8, 269-290.	5.5	87
52	Development of Surface Nano-Crystallization in Alloys by Surface Mechanical Attrition Treatment (SMAT). Critical Reviews in Solid State and Materials Sciences, 2015, 40, 164-181.	6.8	85
53	Novel Î²-Ti35Zr28Nb alloy scaffolds manufactured using selective laser melting for bone implant applications. Acta Biomaterialia, 2019, 87, 273-284.	4.1	85
54	Flexible Superhydrophobic and Superoleophilic MoS2 Sponge for Highly Efficient Oil-Water Separation. Scientific Reports, 2016, 6, 27207.	1.6	84

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55	In vitro bioactivity evaluation of titanium and niobium metals with different surface morphologies. Acta Biomaterialia, 2008, 4, 1530-1535.	4.1	82
56	Quantitative Analyses of MWCNTâ€Ti Powder Mixtures using Raman Spectroscopy: The Influence of Milling Parameters on Nanostructural Evolution. Advanced Engineering Materials, 2015, 17, 1660-1669.	1.6	78
57	Identifying and understanding the effect of milling energy on the synthesis of carbon nanotubes reinforced titanium metal matrix composites. Carbon, 2016, 99, 384-397.	5.4	77
58	Deformation mechanism and mechanical properties of a thermomechanically processed Î² Tiâ€"28Nbâ€"35.4Zr alloy. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 78, 224-234.	1.5	75
59	Effect of dispersion method on the deterioration, interfacial interactions and re-agglomeration of carbon nanotubes in titanium metal matrix composites. Materials and Design, 2015, 88, 138-148.	3.3	73
60	High strength porous PLA gyroid scaffolds manufactured via fused deposition modeling for tissue-engineering applications. Smart Materials in Medicine, 2021, 2, 15-25.	3.7	72
61	A comparative study on the nanoindentation behavior, wear resistance and in vitro biocompatibility of SLM manufactured CPâ€"Ti and EBM manufactured Ti64 gyroid scaffolds. Acta Biomaterialia, 2019, 97, 587-596.	4.1	71
62	The effects of calcium and yttrium additions on the microstructure, mechanical properties and biocompatibility of biodegradable magnesium alloys. Journal of Materials Science, 2011, 46, 365-371.	1.7	70
63	Effect of ball-milling time on the structural characteristics of biomedical porous Tiâ€"Snâ€"Nb alloy. Materials Science and Engineering C, 2011, 31, 921-928.	3.8	67
64	New Ti-Ta-Zr-Nb alloys with ultrahigh strength for potential orthopedic implant applications. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 119-127.	1.5	67
65	Carbon Nanotubes and Graphene as Nanoreinforcements in Metallic Biomaterials: a Review. Advanced Biology, 2019, 3, e1800212.	3.0	66
66	A review of the physiological impact of rare earth elements and their uses in biomedical Mg alloys. Acta Biomaterialia, 2021, 130, 80-97.	4.1	65
67	Solâ€"gel derived hydroxyapatite/titania biocoatings on titanium substrate. Materials Letters, 2006, 60, 1575-1578.	1.3	64
68	Exploring the Role of Manganese on the Microstructure, Mechanical Properties, Biodegradability, and Biocompatibility of Porous Iron-Based Scaffolds. ACS Biomaterials Science and Engineering, 2019, 5, 1686-1702.	2.6	62
69	The importance of particle size in porous titanium and nonporous counterparts for surface energy and its impact on apatite formation. Acta Biomaterialia, 2009, 5, 2290-2302.	4.1	61
70	Investigations into Tiâ€"(Nb,Ta)â€"Fe alloys for biomedical applications. Acta Biomaterialia, 2016, 32, 336-347.	4.1	61
71	The kinetics of two-stage formation of TiAl3 in multilayered Ti/Al foils prepared by accumulative roll bonding. Intermetallics, 2009, 17, 727-732.	1.8	60
72	Microstructures and bond strengths of the calcium phosphate coatings formed on titanium from different simulated body fluids. Materials Science and Engineering C, 2009, 29, 165-171.	3.8	59

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73	Fabrication of Tiâ€“Nbâ€“Ag alloy via powder metallurgy for biomedical applications. Materials & Design, 2014, 56, 629-634.	5.1	59
74	Cellular responses of osteoblastâ€like cells to 17 elemental metals. Journal of Biomedical Materials Research - Part A, 2017, 105, 148-158.	2.1	59
75	Ti6Ta4Sn Alloy and Subsequent Scaffolding for Bone Tissue Engineering. Tissue Engineering - Part A, 2009, 15, 3151-3159.	1.6	58
76	Biomimetic Modification of Porous TiNbZr Alloy Scaffold for Bone Tissue Engineering. Tissue Engineering - Part A, 2010, 16, 309-316.	1.6	58
77	Thermal oxidation behaviour of bulk titanium with nanocrystalline surface layer. Corrosion Science, 2012, 59, 352-359.	3.0	58
78	Quantitative analysis of cooling and lubricating effects of graphene oxide nanofluids in machining titanium alloy Ti6Al4V. Journal of Materials Processing Technology, 2019, 271, 584-598.	3.1	58
79	Development of biodegradable Znâ€“1Mgâ€“0.1RE (REÂ=ÂEr, Dy, and Ho) alloys for biomedical applications. Acta Biomaterialia, 2020, 117, 384-399.	4.1	57
80	The influence of titaniaâ€“zirconiaâ€“zirconium titanate nanotube characteristics on osteoblast cell adhesion. Acta Biomaterialia, 2015, 12, 281-289.	4.1	56
81	The manufacturing and the application of polycrystalline diamond tools â€" A comprehensive review. Journal of Manufacturing Processes, 2020, 56, 400-416.	2.8	56
82	Processing of fine-grained aluminum foam by spark plasma sintering. Journal of Materials Science Letters, 2003, 22, 1407-1409.	0.5	55
83	Improvement of the biomedical properties of titanium using SMAT and thermal oxidation. Colloids and Surfaces B: Biointerfaces, 2014, 116, 658-665.	2.5	55
84	Experimental investigation of the mechanical behavior of aluminum honeycombs under quasi-static and dynamic indentation. Materials & Design, 2015, 74, 138-149.	5.1	55
85	Calcium Phosphate-Based Composite Coating by Micro-Arc Oxidation (MAO) for Biomedical Application: A Review. Critical Reviews in Solid State and Materials Sciences, 2018, 43, 392-416.	6.8	55
86	Superplasticity and Cavitation of Recycled AZ31 Magnesium Alloy Fabricated by Solid Recycling Process. Materials Transactions, 2002, 43, 2437-2442.	0.4	54
87	Improvement of corrosion resistance of H59 brass through fabricating superhydrophobic surface using laser ablation and heating treatment. Corrosion Science, 2021, 180, 109186.	3.0	54
88	The effect of lamellar spacing on the creep behavior of a fully lamellar TiAl alloy. Intermetallics, 2000, 8, 525-529.	1.8	53
89	Synthesis of Tiâ€“Snâ€“Nb alloy by powder metallurgy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 485, 562-570.	2.6	52
90	A review on porous negative electrodes for high performance lithium-ion batteries. Journal of Porous Materials, 2015, 22, 1313-1343.	1.3	52

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91	Reversible wettability transition between superhydrophilicity and superhydrophobicity through alternate heating-reheating cycle on laser-ablated brass surface. Applied Surface Science, 2019, 492, 349-361.	3.1	52
92	Magnesium-based composites reinforced with graphene nanoplatelets as biodegradable implant materials. Journal of Alloys and Compounds, 2020, 828, 154461.	2.8	52
93	Microstructure, wear resistance, and corrosion performance of Ti35Zr28Nb alloy fabricated by powder metallurgy for orthopedic applications. Journal of Materials Science and Technology, 2020, 41, 191-198.	5.6	51
94	Extraordinary high strength Ti-Zr-Ta alloys through nanoscaled, dual-cubic spinodal reinforcement. Acta Biomaterialia, 2017, 53, 549-558.	4.1	50
95	Apatite-inducing ability of titanium oxide layer on titanium surface: The effect of surface energy. Journal of Materials Research, 2008, 23, 1682-1688.	1.2	48
96	Biocompatibility of transition metal-substituted cobalt ferrite nanoparticles. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	48
97	A review of high-strength nanolaminates and evaluation of their properties. Journal of Materials Science and Technology, 2020, 50, 215-244.	5.6	47
98	In vitro and in vivo assessment of the effect of biodegradable magnesium alloys on osteogenesis. Acta Biomaterialia, 2022, 141, 454-465.	4.1	47
99	Novel Ti-Ta-Hf-Zr alloys with promising mechanical properties for prospective stent applications. Scientific Reports, 2016, 6, 37901.	1.6	46
100	Effects of selected metallic and interstitial elements on the microstructure and mechanical properties of beta titanium alloys for orthopedic applications. Materialia, 2019, 6, 100323.	1.3	46
101	Binary Znâ€“Ti alloys for orthopedic applications: Corrosion and degradation behaviors, friction and wear performance, and cytotoxicity. Journal of Materials Science and Technology, 2021, 74, 216-229.	5.6	46
102	Elastic modulus and hardness of cortical and trabecular bovine bone measured by nanoindentation. Transactions of Nonferrous Metals Society of China, 2006, 16, s744-s748.	1.7	45
103	Impact of ruthenium on microstructure and corrosion behavior of Î²-type Tiâ€“Nbâ€“Ru alloys for biomedical applications. Materials & Design, 2014, 59, 303-309.	5.1	45
104	Novel porous Ti35Zr28Nb scaffolds fabricated by powder metallurgy with excellent osteointegration ability for bone-tissue engineering applications. Materials Science and Engineering C, 2019, 105, 110015.	3.8	44
105	Nanohydroxyapatite coating on a titaniumâ€“niobium alloy by a hydrothermal process. Acta Biomaterialia, 2010, 6, 1584-1590.	4.1	43
106	Cell biological responses of osteoblasts on anodized nanotubular surface of a titaniumâ€zirconium alloy. Journal of Biomedical Materials Research - Part A, 2013, 101, 3416-3430.	2.1	42
107	Deterioration of the Strong sp² Carbon Network in Carbon Nanotubes during the Mechanical Dispersion Processingâ€”A Review. Critical Reviews in Solid State and Materials Sciences, 2016, 41, 347-366.	6.8	42
108	Biodegradable ternary Znâ€“3Geâ€“0.5X (X=Cu, Mg, and Fe) alloys for orthopedic applications. Acta Biomaterialia, 2020, 115, 432-446.	4.1	42

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109	The influence of Ca and Cu additions on the microstructure, mechanical and degradation properties of Znâ€“Caâ€“Cu alloys for absorbable wound closure device applications. Bioactive Materials, 2021, 6, 1436-1451.	8.6	42
110	Numerical investigation of the effect of porous titanium femoral prosthesis on bone remodeling. Materials & Design, 2011, 32, 1776-1782.	5.1	41
111	Collagen type-I leads to in vivo matrix mineralization and secondary stabilization of Mgâ€“Zrâ€“Ca alloy implants. Colloids and Surfaces B: Biointerfaces, 2014, 122, 719-728.	2.5	41
112	Processing and Characterization of SrTiO₃â€“TiO₂ Nanoparticleâ€“Nanotube Heterostructures on Titanium for Biomedical Applications. ACS Applied Materials & Interfaces, 2015, 7, 16018-16026.	4.0	41
113	Interdependencies between graphitization of carbon nanotubes and strengthening mechanisms in titanium matrix composites. Materialia, 2018, 3, 122-138.	1.3	41
114	Expression of cell adhesion and differentiation related genes in MC3T3 osteoblasts plated on titanium alloys: role of surface properties. Materials Science and Engineering C, 2013, 33, 1573-1582.	3.8	40
115	The influence of strain rate, deformation temperature and stacking fault energy on the mechanical properties of Cu alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 583, 199-204.	2.6	40
116	Fabrication and Characterization of Nanoporous Niobia, and Nanotubular Tantala, Titania and Zirconia via Anodization. Journal of Functional Biomaterials, 2015, 6, 153-170.	1.8	40
117	Biodegradable Znâ€“3Cu and Znâ€“3Cuâ€“0.2Ti alloys with ultrahigh ductility and antibacterial ability for orthopedic applications. Journal of Materials Science and Technology, 2021, 68, 76-90.	5.6	38
118	Effects of the addition of lanthanum and ultrasonic stirring on the microstructure and mechanical properties of the in situ Mg 2 Si/Al composites. Materials and Design, 2016, 90, 424-432.	3.3	37
119	Effects of solution treatment and aging on the microstructure, mechanical properties, and corrosion resistance of a Î² type Tiâ€“Taâ€“Hfâ€“Zr alloy. RSC Advances, 2017, 7, 12309-12317.	1.7	37
120	Porous Ti-10Mo alloy fabricated by powder metallurgy for promoting bone regeneration. Science China Materials, 2019, 62, 1053-1064.	3.5	37
121	Biodegradable Mg-Ca and Mg-Ca-Y Alloys for Regenerative Medicine. Materials Science Forum, 0, 654-656, 2192-2195.	0.3	36
122	Mechanical properties, in vitro corrosion and biocompatibility of newly developed biodegradable Mg-Zr-Sr-Ho alloys for biomedical applications. Scientific Reports, 2016, 6, 31990.	1.6	36
123	Compressive Deformation Characteristics of Open-Cell Mg Alloys with Controlled Cell Structure. Materials Transactions, 2002, 43, 1298-1305.	0.4	35
124	Sound absorption characteristics of aluminum foam with spherical cells. Journal of Applied Physics, 2011, 110, .	1.1	35
125	Wear Mechanism and Modeling of Tribological Behavior of Polycrystalline Diamond Tools When Cutting Ti6Al4V. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	1.3	35
126	Cold rolling deformation and annealing behavior of a Î²-type Tiâ€“34Nbâ€“25Zr titanium alloy for biomedical applications. Journal of Materials Research and Technology, 2020, 9, 2308-2318.	2.6	35

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127	Forging Characteristics of AZ31 Mg Alloy. Materials Transactions, 2001, 42, 414-417.	0.4	34
128	Fabrication of Al-based bulk metallic glass by mechanical alloying and vacuum hot consolidation. Journal of Alloys and Compounds, 2010, 501, 164-167.	2.8	34
129	Investigation of cell shape effect on the mechanical behaviour of open-cell metal foams. Computational Materials Science, 2012, 55, 1-9.	1.4	34
130	Effects of zirconium and strontium on the biocorrosion of Mgâ€“Zrâ€“Sr alloys for biodegradable implant applications. Journal of Materials Chemistry B, 2015, 3, 3714-3729.	2.9	34
131	Investigating Mg Biocorrosion In Vitro: Lessons Learned and Recommendations. Jom, 2019, 71, 1406-1413.	0.9	34
132	Enhanced corrosion resistance via phosphate conversion coating on pure Zn for medical applications. Corrosion Science, 2020, 169, 108602.	3.0	34
133	Simultaneously enhanced strength and ductility of Cuâ€“xGe alloys through manipulating the stacking fault energy (SFE). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 569, 144-149.	2.6	33
134	Fabrication and characterization of TiO₂â€“ZrO₂â€“ZrTiO₄nanotubes on TiZr alloy manufactured via anodization. Journal of Materials Chemistry B, 2014, 2, 71-83.	2.9	33
135	Mechanical and corrosion properties of graphene nanoplateletâ€“reinforced Mgâ€“Zr and Mgâ€“Zrâ€“Zn matrix nanocomposites for biomedical applications. Journal of Magnesium and Alloys, 2022, 10, 458-477.	5.5	33
136	Effect of heat-treatment atmosphere on the bond strength of apatite layer on Ti substrate. Dental Materials, 2008, 24, 1549-1555.	1.6	32
137	Effects of structural property and surface modification of Ti6Ta4Sn scaffolds on the response of SaOS2 cells for bone tissue engineering. Journal of Alloys and Compounds, 2010, 494, 323-329.	2.8	32
138	Porous shape memory alloy scaffolds for biomedical applications: a review. Physica Scripta, 2010, T139, 014070.	1.2	32
139	Titanium-niobium pentoxide composites for biomedical applications. Bioactive Materials, 2016, 1, 127-131.	8.6	32
140	An investigation of the mechanical and microstructural evolution of a TiNbZr alloy with varied ageing time. Scientific Reports, 2018, 8, 5737.	1.6	32
141	Tribological Behaviour of Pure Ti with a Nanocrystalline Surface Layer Under Different Loads. Tribology Letters, 2012, 45, 59-66.	1.2	31
142	Fabrication and properties of newly developed Ti35Zr28Nb scaffolds fabricated by powder metallurgy for bone-tissue engineering. Journal of Materials Research and Technology, 2019, 8, 3696-3704.	2.6	31
143	Thermodynamic analysis on wetting states and wetting state transitions of rough surfaces. Advances in Colloid and Interface Science, 2020, 278, 102136.	7.0	31
144	Corrosion protection of mesoporous bioactive glass coating on biodegradable magnesium. Applied Surface Science, 2014, 303, 196-204.	3.1	30

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145	Biodegradable Znâˆ’3Mgâˆ’0.7Mg2Si composite fabricated by high-pressure solidification for bone implant applications. Acta Biomaterialia, 2021, 123, 407-417.	4.1	30
146	Microstructure, mechanical properties, degradation behavior, and biocompatibility of porous Fe-Mn alloys fabricated by sponge impregnation and sintering techniques. Acta Biomaterialia, 2020, 114, 485-496.	4.1	29
147	Fabrication of TiAl by blended elemental powder semisolid forming. Journal of Materials Science, 2001, 36, 1741-1745.	1.7	28
148	Effect of relaxation on pressure sensitivity index in a Zr-based metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 460-461, 58-62.	2.6	28
149	Mg-based metallic glass/titanium interpenetrating phase composite with high mechanical performance. Applied Physics Letters, 2009, 95, .	1.5	28
150	Study on the Role of Stearic Acid and Ethylene-bis-stearamide on the Mechanical Alloying of a Biomedical Titanium Based Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 1409-1420.	1.1	28
151	<i>In vitro</i> osteoblastâ€like cell proliferation on nanoâ€hydroxyapatite coatings with different morphologies on a titaniumâ€niobium shape memory alloy. Journal of Biomedical Materials Research - Part A, 2010, 95A, 766-773.	2.1	28
152	Microstructure and mechanical properties of high-pressure-assisted solidification of in situ Alâ€"Mg2Si composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 733, 9-15.	2.6	28
153	Realization and characterization of double-layer Ca-P coating on WE43 Mg alloy for biomedical applications. Surface and Coatings Technology, 2020, 398, 126091.	2.2	28
154	Sol-gel derived HA/TiO2 double coatings on Ti scaffolds for orthopaedic applications. Transactions of Nonferrous Metals Society of China, 2006, 16, s209-s216.	1.7	27
155	Role of Process Control Agent in the Synthesis of Multiâ€Walled Carbon Nanotubes Reinforced Titanium Metal Matrix Powder Mixtures. Advanced Engineering Materials, 2016, 18, 294-303.	1.6	27
156	Impact of gadolinium on mechanical properties, corrosion resistance, and biocompatibility of Zn-1Mg-xGd alloys for biodegradable bone-implant applications. Acta Biomaterialia, 2022, 142, 361-373.	4.1	27
157	Bone Formation Following Implantation of Titanium Sponge Rods into Humeral Osteotomies in Dogs: A Histological and Histometrical Study. Clinical Implant Dentistry and Related Research, 2010, 12, 72-79.	1.6	26
158	Investigation and modeling of flank wear process of different PCD tools in cutting titanium alloy Ti6Al4V. International Journal of Advanced Manufacturing Technology, 2018, 95, 719-733.	1.5	26
159	Recent Progress in Capacity Enhancement of LiFePO4 Cathode for Li-Ion Batteries. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	1.1	25
160	Energy Absorption and Crushing Behaviour of Foam-Filled Aluminium Tubes. Materials Transactions, 2005, 46, 2633-2636.	0.4	24
161	Degradation of the strength of porous titanium after alkali and heat treatment. Journal of Alloys and Compounds, 2009, 485, 316-319.	2.8	24
162	Microstructures, mechanical properties and in vitro corrosion behaviour of biodegradable Mgâ€"Zrâ€"Ca alloys. Journal of Materials Science, 2013, 48, 1632-1639.	1.7	24

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163	Dynamic behaviour of high strength steel parts developed through laser assisted direct metal deposition. Materials & Design, 2014, 64, 650-659.	5.1	24
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