Cuie Wen

List of Publications by Year
in descending order

324 papers	15,958 citations	17440 63 h-index	23533 111 g-index
327 all docs	327 docs citations	327 times ranked	13648 citing authors

#	Article	IF	Citations
1	Surface modification of additively manufactured metallic biomaterials with active antipathogenic properties. , 2023, 1, 100001.		10
2	Biodegradable PLA-ZnO nanocomposite biomaterials with antibacterial properties, tissue engineering viability, and enhanced biocompatibility. , 2023, 1, 100004.		11
3	Biodegradable metallic suture anchors: A review. , 2023, 1, 100005.		4
4	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.	11.9	33
5	Mechanical and corrosion properties of extruded Mgâ€“Zrâ€“Sr alloys for biodegradable implant applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142192.	5.6	24
6	In silico and in vivo studies of the effect of surface curvature on the osteoconduction of porous scaffolds. Biotechnology and Bioengineering, 2022, 119, 591-604.	3.3	8
7	In vitro and in vivo assessment of the effect of biodegradable magnesium alloys on osteogenesis. Acta Biomaterialia, 2022, 141, 454-465.	8.3	47
8	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.	8.3	27
9	A biodegradable Fe/Znâ€“3Cu composite with requisite properties for orthopedic applications. Acta Biomaterialia, 2022, 146, 506-521.	8.3	12
10	A biodegradable in situ Znâ€“Mg2Ge composite for bone-implant applications. Acta Biomaterialia, 2022, 146, 478-494.	8.3	16
11	Recent Progress on Nanocrystalline Metallic Materials for Biomedical Applications. Nanomaterials, 2022, 12, 2111.	4.1	15
12	Fatigue and corrosion fatigue behaviors of biodegradable Zn-Li and Zn-Cu-Li under physiological conditions. Journal of Materials Science and Technology, 2022, 131, 48-59.	10.7	7
13	Mechanical, corrosion, nanotribological, and biocompatibility properties of equal channel angular pressed Ti-28Nb-35.4Zr alloys for biomedical applications. Acta Biomaterialia, 2022, 149, 387-398.	8.3	10
14	Additive manufacturing of functionally graded porous titanium scaffolds for dental applications. , 2022, 139, 213018.		13
15	Zinc phosphate, zinc oxide, and their dual-phase coatings on pure Zn foam with good corrosion resistance, cytocompatibility, and antibacterial ability for potential biodegradable bone-implant applications. Chemical Engineering Journal, 2022, 450, 137946.	12.7	22
16	A Review of Metal Silicides for Lithium-Ion Battery Anode Application. Acta Metallurgica Sinica (English Letters), 2021, 34, 291-308.	2.9	24
17	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.	10.7	38
18	Recent research and progress of biodegradable zinc alloys and composites for biomedical applications: Biomechanical and biocorrosion perspectives. Bioactive Materials, 2021, 6, 836-879.	15.6	192

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19	High strength porous PLA gyroid scaffolds manufactured via fused deposition modeling for tissue-engineering applications. Smart Materials in Medicine, 2021, 2, 15-25.	6.7	72
20	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.	15.6	42
21	Improvement of corrosion resistance of H59 brass through fabricating superhydrophobic surface using laser ablation and heating treatment. Corrosion Science, 2021, 180, 109186.	6.6	54
22	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.	10.7	46
23	Biodegradable alloys. , 2021, , 189-228.		0
24	Titanium alloys. , 2021, , 157-187.		3
25	Biodegradable Znâˆ’3Mgâˆ’0.7Mg2Si composite fabricated by high-pressure solidification for bone implant applications. Acta Biomaterialia, 2021, 123, 407-417.	8.3	30
26	Development of beta-type Ti-Nb-Zr-Mo alloys for orthopedic applications. Applied Materials Today, 2021, 22, 100968.	4.3	15
27	Individual layer thickness-dependent nanoindentation and nanotribological behaviors of Ta/Co nanolaminates. Tribology International, 2021, 156, 106845.	5.9	7
28	Surface Characterization and Biocompatibility of Hydroxyapatite Coating on Anodized TiO₂ Nanotubes via PVD Magnetron Sputtering. Langmuir, 2021, 37, 4984-4996.	3.5	18
29	Structural and electrochemical characterization of vanadium-excess Li3V2(PO4)3-LiVOPO4/C composite cathode material synthesized by solâ€“gel method. Journal of Solid State Electrochemistry, 2021, 25, 2127-2137.	2.5	2
30	Ultra-strong and ductile Ta/Co nanolaminates strengthened via grain-boundary expanding and interfacial sliding. Applied Materials Today, 2021, 23, 100983.	4.3	2
31	Impact of scandium on mechanical properties, corrosion behavior, friction and wear performance, and cytotoxicity of a Î²-type Tiâ€“24Nbâ€“38Zrâ€“2Mo alloy for orthopedic applications. Acta Biomaterialia, 2021, 134, 791-803.	8.3	19
32	A review of the physiological impact of rare earth elements and their uses in biomedical Mg alloys. Acta Biomaterialia, 2021, 130, 80-97.	8.3	65
33	Disparate micro-mechanical behaviors of adjacent bone lamellae through in situ SEM micropillar compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 825, 141903.	5.6	5
34	Aggravated stress fluctuation and mechanical size effects of nanoscale lamellar bone pillars. NPG Asia Materials, 2021, 13, .	7.9	6
35	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.	10.7	101
36	Microstructure, mechanical and corrosion properties of hot-pressed graphene nanoplatelets-reinforced Mg matrix nanocomposites for biomedical applications. Journal of Alloys and Compounds, 2021, 887, 161379.	5.5	14

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37	Recent Progress in Capacity Enhancement of LiFePO4 Cathode for Li-Ion Batteries. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	2.1	25
38	Nutrient alloying elements in biodegradable metals: a review. Journal of Materials Chemistry B, 2021, 9, 9806-9825.	5.8	8
39	The Application of the Rare Earths to Magnesium and Titanium Metallurgy in Australia. Advanced Materials, 2020, 32, e1901715.	21.0	24
40	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.	10.7	51
41	Impact of the rare earth elements scandium and yttrium on beta-type Ti-24Nb-38Zr-2Mo-base alloys for orthopedic applications. Materialia, 2020, 9, 100586.	2.7	11
42	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.	8.3	95
43	High electrochemical stability Al-doped spinel LiMn2O4 cathode material for Li-ion batteries. Journal of Energy Storage, 2020, 27, 101036.	8.1	98
44	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.	8.3	102
45	Mechanical, corrosion, and biocompatibility properties of Mg-Zr-Sr-Sc alloys for biodegradable implant applications. Acta Biomaterialia, 2020, 102, 493-507.	8.3	93
46	Biodegradable ternary Znâ€"3Geâ€"0.5X (X=Cu, Mg, and Fe) alloys for orthopedic applications. Acta Biomaterialia, 2020, 115, 432-446.	8.3	42
47	Development of biodegradable Znâ€"1Mgâ€"0.1RE (REÂ=ÂEr, Dy, and Ho) alloys for biomedical applications. Acta Biomaterialia, 2020, 117, 384-399.	8.3	57
48	Powder metallurgy in manufacturing of medical devices. , 2020, , 159-190.		2
49	Nano-tribological behavior of graphene nanoplateletâ€"reinforced magnesium matrix nanocomposites. Journal of Magnesium and Alloys, 2020, 9, 895-895.	11.9	23
50	Selective laser melting in biomedical manufacturing. , 2020, , 235-269.		19
51	Introduction to biomedical manufacturing. , 2020, , 3-29.		2
52	Material selection for medical devices. , 2020, , 31-94.		8
53	Surface modifications of metallic biomaterials. , 2020, , 387-424.		3
54	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.	8.3	29

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55	Study of TiO₂-Coated Î±-Fe₂O₃ Composites and the Oxygen-Defects Effect on the Application as the Anode Materials of High-Performance Li-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 11666-11673.	5.1	19
56	Length-scale dependent deformation, strengthening, and ductility of fcc/fcc Ni/Al nanolaminates using micropillar compression testing. Acta Materialia, 2020, 193, 318-328.	7.9	24
57	A review of high-strength nanolaminates and evaluation of their properties. Journal of Materials Science and Technology, 2020, 50, 215-244.	10.7	47
58	Impact of rare earth elements on nanohardness and nanowear properties of beta-type Ti-24Nb-38Zr-2Mo alloy for medical applications. Materialia, 2020, 12, 100772.	2.7	8
59	HA coating on Mg alloys for biomedical applications: A review. Journal of Magnesium and Alloys, 2020, 8, 929-943.	11.9	104
60	Machinablility of titanium matrix composites (TMC) reinforced with multi-walled carbon nanotubes. Journal of Manufacturing Processes, 2020, 56, 131-146.	5.9	24
61	Thermodynamic analysis on wetting states and wetting state transitions of rough surfaces. Advances in Colloid and Interface Science, 2020, 278, 102136.	14.7	31
62	Realization and characterization of double-layer Ca-P coating on WE43 Mg alloy for biomedical applications. Surface and Coatings Technology, 2020, 398, 126091.	4.8	28
63	Titanium Alloys, Including Nitinol. , 2020, , 229-247.		4
64	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.	11.9	87
65	Magnesium-based composites reinforced with graphene nanoplatelets as biodegradable implant materials. Journal of Alloys and Compounds, 2020, 828, 154461.	5.5	52
66	A biodegradable Zn-1Cu-0.1Ti alloy with antibacterial properties for orthopedic applications. Acta Biomaterialia, 2020, 106, 410-427.	8.3	117
67	Effect of Anodized TiO₂â€“Nb₂O₅â€“ZrO₂ Nanotubes with Different Nanoscale Dimensions on the Biocompatibility of a Ti35Zr28Nb Alloy. ACS Applied Materials & Interfaces, 2020, 12, 6776-6787.	8.0	19
68	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.	5.8	35
69	Enhanced corrosion resistance via phosphate conversion coating on pure Zn for medical applications. Corrosion Science, 2020, 169, 108602.	6.6	34
70	The manufacturing and the application of polycrystalline diamond tools â€“ A comprehensive review. Journal of Manufacturing Processes, 2020, 56, 400-416.	5.9	56
71	Characterization techniques for metallic biomaterials. , 2020, , 517-545.		0
72	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.	5.8	31

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73	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.	7.3	44
74	Phase field simulation of spinodal decomposition in Zrâ€“Nb alloys for implant materials. Journal of Applied Physics, 2019, 126, 085102.	2.5	6
75	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.	8.3	71
76	Novel Î²-Ti35Zr28Nb alloy scaffolds manufactured using selective laser melting for bone implant applications. Acta Biomaterialia, 2019, 87, 273-284.	8.3	85
77	Influence of Heat Treatments on Microstructure and Mechanical Properties of Tiâ€“26Nb Alloy Elaborated In Situ by Laser Additive Manufacturing with Ti and Nb Mixed Powder. Materials, 2019, 12, 61.	2.9	12
78	Porous Ti-10Mo alloy fabricated by powder metallurgy for promoting bone regeneration. Science China Materials, 2019, 62, 1053-1064.	6.3	37
79	Reversible wettability transition between superhydrophilicity and superhydrophobicity through alternate heating-reheating cycle on laser-ablated brass surface. Applied Surface Science, 2019, 492, 349-361.	6.1	52
80	Biocompatibility of Nanoscale Hydroxyapatite Coating on TiO2 Nanotubes. Materials, 2019, 12, 1979.	2.9	7
81	Magnesium matrix nanocomposites for orthopedic applications: A review from mechanical, corrosion, and biological perspectives. Acta Biomaterialia, 2019, 96, 1-19.	8.3	113
82	Morphology and phase structure of nanosized Co powders prepared by one-step reduction combined with high-energy ball milling. Journal of Alloys and Compounds, 2019, 800, 490-497.	5.5	4
83	Optimized Fabrication and Characterization of TiO₂â€“Nb₂O₅â€“ZrO₂ Nanotubes on Î²-Phase TiZr₃₅Nb₂₈ Alloy for Biomedical Applications via the Taguchi Method. ACS Biomaterials Science and Engineering, 2019, 5, 2750-2761.	5.2	12
84	Individual layer thickness-dependent microstructures and mechanical properties of fcc/fcc Ni/Al nanolaminates and their strengthening mechanisms. Materialia, 2019, 6, 100347.	2.7	13
85	Effects of selected metallic and interstitial elements on the microstructure and mechanical properties of beta titanium alloys for orthopedic applications. Materialia, 2019, 6, 100323.	2.7	46
86	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.	6.3	58
87	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.	5.2	62
88	Ion-substituted calcium phosphate coatings by physical vapor deposition magnetron sputtering for biomedical applications: A review. Acta Biomaterialia, 2019, 89, 14-32.	8.3	118
89	Carbon Nanotubes and Graphene as Nanoreinforcements in Metallic Biomaterials: a Review. Advanced Biology, 2019, 3, e1800212.	3.0	66
90	High-strength Ni/Al nanolaminates fabricated by magnetron sputtering and their nanoindentation and nanowear behaviors. Materialia, 2019, 6, 100263.	2.7	14

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91	Effect of thermomechanical treatment on the mechanical and microstructural evolution of a Î²-type Ti-40.7Zrâ€"24.8Nb alloy. Bioactive Materials, 2019, 4, 303-311.	15.6	24
92	Corrosion of porous Ti35Zr28Nb in Hanksâ€™ solution and 3.5â€‰wt% NaCl. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 529-536.	1.5	6
93	Additive manufacturing technology for porous metal implant applications and triple minimal surface structures: A review. Bioactive Materials, 2019, 4, 56-70.	15.6	348
94	Investigating Mg Biocorrosion In Vitro: Lessons Learned and Recommendations. Jom, 2019, 71, 1406-1413.	1.9	34
95	A comprehensive review of biodegradable synthetic polymer-ceramic composites and their manufacture for biomedical applications. Bioactive Materials, 2019, 4, 22-36.	15.6	208
96	Bioengineering International joins the Family of Platinum Open Access Journals. Bioengineering International, 2019, 1, 001-001.	0.0	0
97	An investigation of the mechanical and microstructural evolution of a TiNbZr alloy with varied ageing time. Scientific Reports, 2018, 8, 5737.	3.3	32
98	Microstructural evolution and its influence on the mechanical properties of a thermomechanically processed Î² Tiâ€"32Zrâ€"30Nb alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 719, 112-123.	5.6	21
99	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.	3.1	75
100	Preface to SPECIAL ISSUE: Advances in Metallic Biomaterials. Science China Materials, 2018, 61, 439-439.	6.3	0
101	Improvement on electrochemical performances of nanoporous titania as anode of lithium-ion batteries through annealing of pure titanium foils. Journal of Energy Chemistry, 2018, 27, 250-263.	12.9	8
102	Anisotropic Ti-6Al-4V gyroid scaffolds manufactured by electron beam melting (EBM) for bone implant applications. Materials and Design, 2018, 137, 345-354.	7.0	257
103	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.	12.3	55
104	Corrosion of Ti35Zr28Nb in Hanksâ€™ solution and 3.5â€‰wt% NaCl solution. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 197-206.	1.5	12
105	Strain rate dependence of tensile strength and ductility of nano and ultrafine grained coppers. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 341-349.	5.6	16
106	Mechanical properties, corrosion, and biocompatibility of Mgâ€Zrâ€Srâ€Dy alloys for biodegradable implant applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2425-2434.	3.4	24
107	Mechanical properties of electrodeposited nanocrystalline and ultrafine-grained Zn-Sn coatings. Surface and Coatings Technology, 2018, 333, 71-80.	4.8	16
108	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.	3.0	26

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109	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.	8.3	134
110	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, .	2.2	35
111	Investigation on Composition, Mechanical Properties, and Corrosion Resistance of Mg-0.5Ca-X(Sr, Zr,) Tj ETQq1 1 0.784314 rgBT /Overl	1.5	3
112	In Vitro Degradation Behaviors of Manganese-Calcium Phosphate Coatings on an Mg-Ca-Zn Alloy. Scanning, 2018, 2018, 1-9.	1.5	4
113	Microstructures and mechanical properties of in situ TiCâ€“Î²â€“Tiâ€“Nb composites with ultrafine grains fabricated by high-pressure sintering. Scientific Reports, 2018, 8, 9496.	3.3	10
114	Ultrahigh-strength titanium gyroid scaffolds manufactured by selective laser melting (SLM) for bone implant applications. Acta Materialia, 2018, 158, 354-368.	7.9	259
115	The Mechanical Properties and In Vitro Biocompatibility of PM-Fabricated Ti-28Nb-35.4Zr Alloy for Orthopedic Implant Applications. Materials, 2018, 11, 531.	2.9	17
116	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.	5.6	28
117	Interdependencies between graphitization of carbon nanotubes and strengthening mechanisms in titanium matrix composites. Materialia, 2018, 3, 122-138.	2.7	41
118	Impact of ruthenium on mechanical properties, biological response and thermal processing of Î²-type Tiâ€“Nbâ€“Ru alloys. Acta Biomaterialia, 2017, 48, 461-467.	8.3	17
119	Extraordinary high strength Ti-Zr-Ta alloys through nanoscaled, dual-cubic spinodal reinforcement. Acta Biomaterialia, 2017, 53, 549-558.	8.3	50
120	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.	5.6	123
121	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.	3.6	37
122	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.	5.6	87
123	Structural and mechanical properties of magnetron-sputtered Alâ€“Au thin films. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	3
124	Manufacturing of graded titanium scaffolds using a novel space holder technique. Bioactive Materials, 2017, 2, 248-252.	15.6	21
125	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.	3.1	67
126	Cellular responses of osteoblastâ€like cells to 17 elemental metals. Journal of Biomedical Materials Research - Part A, 2017, 105, 148-158.	4.0	59

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127	The bioactivity and bone cell attachment of nanotubular layers anodized in aqueous and nonaqueous electrolytes. , 2017, , 217-239.		0
128	Metal scaffolds processed by electron beam melting for biomedical applications. , 2017, , 83-110.		11
129	Nanotopography and surface chemistry of TiO2â€“ZrO2â€“ZrTiO4 nanotubular surfaces and the influence on their bioactivity and cell responses. , 2017, , 181-202.		1
130	Production methods and characterization of porous Mg and Mg alloys for biomedical applications. , 2017, , 25-82.		16
131	Metallic scaffolds manufactured by selective laser melting for biomedical applications. , 2017, , 1-23.		13
132	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.	3.5	27
133	Novel Ti-Ta-Hf-Zr alloys with promising mechanical properties for prospective stent applications. Scientific Reports, 2016, 6, 37901.	3.3	46
134	Investigations into Tiâ€“(Nb,Ta)â€“Fe alloys for biomedical applications. Acta Biomaterialia, 2016, 32, 336-347.	8.3	61
135	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.	12.3	42
136	Effect of ultrasonic stirring on the microstructure and mechanical properties of in situ Mg2Si/Al composite. Materials Chemistry and Physics, 2016, 178, 112-118.	4.0	14
137	Microstructure and superelasticity of a biomedical Î²-type titanium alloy under various processing routes. Applied Materials Today, 2016, 5, 41-51.	4.3	4
138	Flexible Superhydrophobic and Superoleophilic MoS2 Sponge for Highly Efficient Oil-Water Separation. Scientific Reports, 2016, 6, 27207.	3.3	84
139	Titanium-niobium pentoxide composites for biomedical applications. Bioactive Materials, 2016, 1, 127-131.	15.6	32
140	Mechanical properties, in vitro corrosion and biocompatibility of newly developed biodegradable Mg-Zr-Sr-Ho alloys for biomedical applications. Scientific Reports, 2016, 6, 31990.	3.3	36
141	Nanostructured Silicon Anodes for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 647-678.	14.9	261
142	Effects of Mg₁₇Sr₂ Phase on the Bioâ€Corrosion Behavior of Mgâ€“Zrâ€“Sr Alloys. Advanced Engineering Materials, 2016, 18, 259-268.	3.5	23
143	Strontium content and collagenâ€ coating of Magnesiumâ€“Zirconiaâ€“Strontium implants influence osteogenesis and bone resorption. Clinical Oral Implants Research, 2016, 27, e15-24.	4.5	13
144	Identifying and understanding the effect of milling energy on the synthesis of carbon nanotubes reinforced titanium metal matrix composites. Carbon, 2016, 99, 384-397.	10.3	77

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145	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.	7.0	37
146	Wear behaviour of DMD-generated high-strength steels using multi-factor experiment design on a pin-on-disc apparatus. International Journal of Advanced Manufacturing Technology, 2016, 87, 461-477.	3.0	8
147	A study of the capacity fade of porous NiO/Ni foam as negative electrode for lithium-ion batteries. Ionics, 2016, 22, 173-184.	2.4	16
148	The role of temperature in the strengthening of Cuâ€"Al alloys processed by surface mechanical attrition treatment. Journal of Materials Research, 2015, 30, 1670-1677.	2.6	3
149	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.	3.5	78
150	Nanogravel structured NiO/Ni foam as electrode for high-performance lithium-ion batteries. Ionics, 2015, 21, 2709-2723.	2.4	23
151	Fabrication and Characterization of Nanoporous Niobia, and Nanotubular Tantala, Titania and Zirconia via Anodization. Journal of Functional Biomaterials, 2015, 6, 153-170.	4.4	40
152	Ultrahigh Strength Copper Obtained by Surface Mechanical Attrition Treatment at Cryogenic Temperature. Journal of Materials Engineering and Performance, 2015, 24, 5058-5064.	2.5	16
153	The impact of Co/La ratios on microstructure and magnetic properties of the Sr0.75â^'Ca0.25La Fe12â^'Co O19 hexaferrites. Journal of Magnetism and Magnetic Materials, 2015, 384, 64-69.	2.3	19
154	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.	12.3	85
155	Processing and Characterization of SrTiO₃â€"TiO₂ Nanoparticleâ€"Nanotube Heterostructures on Titanium for Biomedical Applications. ACS Applied Materials & Interfaces, 2015, 7, 16018-16026.	8.0	41
156	A review on porous negative electrodes for high performance lithium-ion batteries. Journal of Porous Materials, 2015, 22, 1313-1343.	2.6	52
157	Enhanced electrochemical performance of Li-ion batteries with nanoporous titania as negative electrodes. Journal of Energy Chemistry, 2015, 24, 157-170.	12.9	14
158	Cell response and bioactivity of titaniaâ€"zirconiaâ€"zirconium titanate nanotubes with different nanoscale topographies fabricated in a non-aqueous electrolyte. Biomaterials Science, 2015, 3, 636-644.	5.4	14
159	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.	5.8	34
160	Experimental investigation of the mechanical behavior of aluminum honeycombs under quasi-static and dynamic indentation. Materials & Design, 2015, 74, 138-149.	5.1	55
161	Development of Tiâ€"Nbâ€"Zr alloys with high elastic admissible strain for temporary orthopedic devices. Acta Biomaterialia, 2015, 20, 176-187.	8.3	165
162	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.	7.0	73

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