

Chao Yang

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200
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h-index

63
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206
ext. papers

6,179
ext. citations

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avg. IF

5.99
L-index

#	Paper	IF	Citations
200	New Developments of Ti-Based Alloys for Biomedical Applications. <i>Materials</i> , 2014 , 7, 1709-1800	3.5	553
199	Microstructure and compressive properties of AlCrFeCoNi high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 491, 154-158	5.3	320
198	Distinction in corrosion resistance of selective laser melted Ti-6Al-4V alloy on different planes. <i>Corrosion Science</i> , 2016 , 111, 703-710	6.8	223
197	Effects of Mn, Ti and V on the microstructure and properties of AlCrFeCoNiCu high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 498, 482-486	5.3	175
196	Oxygen Vacancy Promoted Heterogeneous Fenton-like Degradation of Ofloxacin at pH 3.2-9.0 by Cu Substituted Magnetic FeO@FeOOH Nanocomposite. <i>Environmental Science & Technology</i> , 2017 , 51, 12699-12706	10.3	172
195	Effect of Powder Particle Shape on the Properties of In Situ Ti ₆₀ Al ₄₀ B Composite Materials Produced by Selective Laser Melting. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 1001-1005	9.1	156
194	Surface aging behaviour of Fe-based amorphous alloys as catalysts during heterogeneous photo Fenton-like process for water treatment. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 537-547	21.8	130
193	Disordered Atomic Packing Structure of Metallic Glass: Toward Ultrafast Hydroxyl Radicals Production Rate and Strong Electron Transfer Ability in Catalytic Performance. <i>Advanced Functional Materials</i> , 2017 , 27, 1702258	15.6	118
192	Comparative study of microstructures and mechanical properties of in situ Ti ₆₀ Al ₄₀ B composites produced by selective laser melting, powder metallurgy, and casting technologies. <i>Journal of Materials Research</i> , 2014 , 29, 1941-1950	2.5	96
191	Chemical speciation of fine particle bound trace metals. <i>International Journal of Environmental Science and Technology</i> , 2009 , 6, 337-346	3.3	91
190	Bimodal titanium alloys with ultrafine lamellar eutectic structure fabricated by semi-solid sintering. <i>Acta Materialia</i> , 2017 , 132, 491-502	8.4	85
189	Ultrafine grained Ti-based composites with ultrahigh strength and ductility achieved by equiaxing microstructure. <i>Materials & Design</i> , 2015 , 79, 1-5		79
188	Ultrahigh-performance TiNi shape memory alloy by 4D printing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 763, 138166	5.3	76
187	Carbon doped molybdenum disulfide nanosheets stabilized on graphene for the hydrogen evolution reaction with high electrocatalytic ability. <i>Nanoscale</i> , 2016 , 8, 1676-83	7.7	73
186	Biomimetic Diselenide-Bridged Mesoporous Organosilica Nanoparticles as an X-ray-Responsive Biodegradable Carrier for Chemo-Immunotherapy. <i>Advanced Materials</i> , 2020 , 32, e2004385	24	61
185	A Review on High-Strength Titanium Alloys: Microstructure, Strengthening, and Properties. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801359	3.5	56
184	Enhanced peroxymonosulfate activation for phenol degradation over MnO at pH 3.5-9.0 via Cu(II) substitution. <i>Journal of Hazardous Materials</i> , 2018 , 360, 303-310	12.8	55

183	Bulk WC/Al ₂ O ₃ composites prepared by spark plasma sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012 , 30, 51-56	4.1	55
182	Densification mechanism of Ti-based metallic glass powders during spark plasma sintering process. <i>Intermetallics</i> , 2015 , 66, 1-7	3.5	54
181	Influence of powder properties on densification mechanism during spark plasma sintering. <i>Scripta Materialia</i> , 2017 , 139, 96-99	5.6	54
180	Biomedical TiNbZrTaSi alloys designed by d-electron alloy design theory. <i>Materials and Design</i> , 2015 , 85, 7-13	8.1	51
179	Ultrafine-grained Ti-based composites with high strength and low modulus fabricated by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 857-861	5.3	50
178	Fabrication, performance and mechanism of MgO meso-/macroporous nanostructures for simultaneous removal of As(III) and F in a groundwater system. <i>Environmental Science: Nano</i> , 2016 , 3, 1416-1424	7.1	49
177	High-strength silicon brass manufactured by selective laser melting. <i>Materials Letters</i> , 2018 , 210, 169-173	3.3	48
176	(SiCp+Ti)/7075Al hybrid composites with high strength and large plasticity fabricated by squeeze casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 609, 250-254	5.3	46
175	Premature failure of an additively manufactured material. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	44
174	Nucleation and growth mechanism of crystalline phase for fabrication of ultrafine-grained Ti ₆₆ Nb ₁₃ Cu ₈ Ni _{6.8} Al _{6.2} composites by spark plasma sintering and crystallization of amorphous phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 650, 171-182	5.3	42
173	Equiaxed Ti-based composites with high strength and large plasticity prepared by sintering and crystallizing amorphous powder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 650, 171-182	5.3	41
172	Heterogeneous photo Fenton-like degradation of cibacron brilliant red 3B-A dye using amorphous Fe ₇₈ Si ₉ B ₁₃ and Fe _{73.5} Si _{13.5} B ₉ Cu ₁ Nb ₃ alloys: The influence of adsorption. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 71, 128-136	5.3	40
171	Well-dispersed magnetic iron oxide nanocrystals on sepiolite nanofibers for arsenic removal. <i>RSC Advances</i> , 2015 , 5, 25236-25243	3.7	40
170	Fabrication of biomedical Ti ₆₅ Nb ₁₇ Zr ₈ Ta alloys by mechanical alloying and spark plasma sintering. <i>Powder Metallurgy</i> , 2012 , 55, 65-70	1.9	37
169	Overcoming the strength-ductility trade-off by tailoring grain-boundary metastable Si-containing phase in Ti-type titanium alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 68, 112-123	9.1	36
168	ZrO ₂ (3Y) toughened WC composites prepared by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2013 , 572, 62-67	5.7	35
167	Ultrafine-grained Ti ₆₆ Nb ₁₃ Cu ₈ Ni _{6.8} Al _{6.2} composites fabricated by spark plasma sintering and crystallization of amorphous phase. <i>Journal of Materials Research</i> , 2009 , 24, 2118-2122	2.5	35
166	In-situ alloyed, oxide-dispersion-strengthened CoCrFeMnNi high entropy alloy fabricated via laser powder bed fusion. <i>Materials and Design</i> , 2020 , 194, 108966	8.1	35

165	Facile synthesis of hierarchical dendrite-like structure iron layered double hydroxide nanohybrids for effective arsenic removal. <i>Chemical Communications</i> , 2016 , 52, 11955-11958	5.8	34
164	Determination of atomic diffusion coefficient via isochronal spark plasma sintering. <i>Scripta Materialia</i> , 2018 , 151, 47-52	5.6	33
163	A novel high-strength Al-based nanocomposite reinforced with Ti-based metallic glass nanoparticles produced by powder metallurgy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 734, 34-41	5.3	33
162	Intrinsic relationship between crystallization mechanism of metallic glass powder and microstructure of bulk alloys fabricated by powder consolidation and crystallization of amorphous phase. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 542-548	5.7	33
161	Preliminary investigation of chloramphenicol in fish, water and sediment from freshwater aquaculture pond. <i>International Journal of Environmental Science and Technology</i> , 2009 , 6, 597-604	3.3	33
160	Bimorphic microstructure in Ti-6Al-4V alloy manipulated by spark plasma sintering and in-situ press forging. <i>Scripta Materialia</i> , 2021 , 193, 43-48	5.6	32
159	Non-isothermal and isothermal crystallization kinetics and their effect on microstructure of sintered and crystallized TiNbZrTaSi bulk alloys. <i>Journal of Non-Crystalline Solids</i> , 2016 , 432, 440-452	3.9	31
158	Improving the Mechanical Properties of Cu-15Ni-8Sn Alloys by Addition of Titanium. <i>Materials</i> , 2017 , 10,	3.5	31
157	Densification and microstructure evolution during SPS consolidation process in W-Ni-Fe system. <i>Transactions of Nonferrous Metals Society of China</i> , 2011 , 21, 493-501	3.3	31
156	Effect of Fe content on glass-forming ability and crystallization behavior of a (Ti69.7Nb23.7Zr4.9Ta1.7)100-xFex alloy synthesized by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2013 , 553, 40-47	5.7	30
155	Reaction diffusion rate coefficient derivation by isothermal heat treatment in spark plasma sintering system. <i>Scripta Materialia</i> , 2017 , 134, 91-94	5.6	29
154	Equiaxed grained structure: A structure in titanium alloys with higher compressive mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 580, 397-405	5.3	28
153	93W8.6Ni1.4Fe heavy alloys with enhanced performance prepared by cyclic spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 599, 233-241	5.3	27
152	Stable tensile recovery strain induced by a Ni4Ti3 nanoprecipitate in a Ni50.4Ti49.6 shape memory alloy fabricated via selective laser melting. <i>Acta Materialia</i> , 2021 , 219, 117261	8.4	27
151	A new insight into high-strength Ti62Nb12.2Fe13.6Co6.4Al5.8 alloys with bimodal microstructure fabricated by semi-solid sintering. <i>Scientific Reports</i> , 2016 , 6, 23467	4.9	26
150	Effect of WC content on glass formation, thermal stability, and phase evolution of a TiNbCuNiAl alloy synthesized by mechanical alloying. <i>Journal of Materials Research</i> , 2008 , 23, 745-754	2.5	25
149	Effects of brazing temperature and testing temperature on the microstructure and shear strength of TiAl joints. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 634, 91-98	5.3	23
148	Adsorption behavior of methylene blue on amine-functionalized ordered mesoporous alumina. <i>Journal of Porous Materials</i> , 2015 , 22, 147-155	2.4	23

147	Zirconia-toughened WC with/without VC and Cr ₃ C ₂ . <i>Ceramics International</i> , 2014 , 40, 2011-2016	5.1	23
146	Copper in LaMnO to promote peroxymonosulfate activation by regulating the reactive oxygen species in sulfamethoxazole degradation. <i>Journal of Hazardous Materials</i> , 2021 , 411, 125163	12.8	23
145	Potential superhard cubic spinel CSi ₂ N ₄ : First-principles investigations. <i>Journal of Applied Physics</i> , 2008 , 103, 083533	2.5	21
144	Novel Colorimetric Method for Simultaneous Detection and Identification of Multimetal Ions in Water: Sensitivity, Selectivity, and Recognition Mechanism. <i>ACS Omega</i> , 2019 , 4, 5915-5922	3.9	20
143	Effects of metallic Ti particles on the aging behavior and the influenced mechanical properties of squeeze-cast (SiCp+Ti)/7075Al hybrid composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 620, 190-197	5.3	19
142	Safe and efficient degradation of metronidazole using highly dispersed FeOOH on palygorskite as heterogeneous Fenton-like activator of hydrogen peroxide. <i>Chemosphere</i> , 2019 , 236, 124367	8.4	19
141	Effects of particle size and properties on the microstructures, mechanical properties, and fracture mechanisms of 7075Al hybrid composites prepared by squeeze casting. <i>Journal of Materials Science</i> , 2014 , 49, 7855-7863	4.3	19
140	In-situ elongated Bi ₃ N ₄ grains toughened WC composites prepared by one/two-step spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 561, 445-451	5.3	19
139	Ductile fine-grained TiO ₂ -based composites with ultrahigh compressive specific strength fabricated by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1897-1900	5.3	18
138	Oxygen-induced amorphization of metallic titanium by ball milling. <i>Journal of Materials Research</i> , 2007 , 22, 1927-1932	2.5	18
137	High-Strength AlCrFeCoNi High Entropy Alloys Fabricated by Using Metallic Glass Powder as Precursor. <i>Advanced Engineering Materials</i> , 2016 , 18, 348-353	3.5	18
136	Effect of Si and Ti on dynamic recrystallization of high-performance Cu ₁₅ Ni ₈ Sn alloy during hot deformation. <i>Transactions of Nonferrous Metals Society of China</i> , 2019 , 29, 2556-2565	3.3	18
135	Designing ultrafine lamellar eutectic structure in bimodal titanium alloys by semi-solid sintering. <i>Journal of Alloys and Compounds</i> , 2017 , 702, 51-59	5.7	17
134	Correlation between atomic diffusivity and densification mechanism during spark plasma sintering of titanium alloy powders. <i>Journal of Alloys and Compounds</i> , 2019 , 787, 112-122	5.7	17
133	Effect of minor Cu content on microstructure and mechanical property of NiTiCu bulk alloys fabricated by crystallization of metallic glass powder. <i>Intermetallics</i> , 2015 , 56, 37-43	3.5	17
132	Coordination and Redox Dual-Responsive Mesoporous Organosilica Nanoparticles Amplify Immunogenic Cell Death for Cancer Chemoimmunotherapy. <i>Small</i> , 2021 , 17, e2100006	11	17
131	Simultaneous enhancement of mechanical and shape memory properties by heat-treatment homogenization of Ti ₂ Ni precipitates in TiNi shape memory alloy fabricated by selective laser melting. <i>Journal of Materials Science and Technology</i> , 2022 , 101, 205-216	9.1	17
130	Superior Wear Resistance in EBM-Processed TC4 Alloy Compared with SLM and Forged Samples. <i>Materials</i> , 2019 , 12,	3.5	16

129	Effect of ultrasonic surface rolling on surface layer properties and fretting wear properties of titanium alloy Ti5Al4Mo6V2Nb1Fe. <i>Surface and Coatings Technology</i> , 2020 , 389, 125612	4.4	16
128	Efficient fenton-like degradation of ofloxacin over bimetallic Fe-Cu@Sepiolite composite. <i>Chemosphere</i> , 2020 , 257, 127209	8.4	16
127	Ti-based bulk metallic glass matrix composites with in situ precipitated β Ti phase fabricated by spark plasma sintering. <i>Journal of Non-Crystalline Solids</i> , 2013 , 359, 15-20	3.9	16
126	Crystallization kinetics and spark plasma sintering of amorphous Ni ₅₃ Nb ₂₀ Ti ₁₀ Zr ₈ Co ₆ Ta ₃ powders prepared by mechanical alloying. <i>Vacuum</i> , 2015 , 114, 93-100	3.7	16
125	Formation of Fe _{1-x} Nb _x (X=Zr, Ti) amorphous alloys from pure metal elements by mechanical alloying. <i>Physica B: Condensed Matter</i> , 2012 , 407, 258-262	2.8	15
124	Effect of V content on microstructure and mechanical property of a TiVCuNiAl composite fabricated by spark plasma sintering. <i>Materials & Design</i> , 2013 , 52, 655-662		15
123	Microstructure and mechanical property of bimodal-size metallic glass particle-reinforced Al alloy matrix composites. <i>Journal of Alloys and Compounds</i> , 2020 , 814, 152317	5.7	15
122	Machining performance of a grooved tool in dry machining Ti-6Al-4 V. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 73, 613-622	3.2	14
121	Biomedical porous TiNbZrFe alloys fabricated using NH ₄ HCO ₃ as pore forming agent through powder metallurgy route. <i>Powder Metallurgy</i> , 2015 , 58, 228-234	1.9	14
120	Effect of Zr addition on the microstructure and tribological property of the anodization of Ti-6Al-4V alloy. <i>Surface and Coatings Technology</i> , 2018 , 356, 38-48	4.4	14
119	Bimodal eutectic titanium alloys: Microstructure evolution, mechanical behavior and strengthening mechanism. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 700, 10-18	5.3	13
118	Tannic Acid-Assisted Synthesis of Biodegradable and Antibacterial Mesoporous Organosilica Nanoparticles Decorated with Nanosilver. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1695-1702	8.3	13
117	Texture evolution and mechanical behavior of commercially pure Ti processed via pulsed electric current treatment. <i>Journal of Materials Science</i> , 2016 , 51, 10608-10619	4.3	13
116	Cr ₃ C ₂ and VC doped WC/Bi ₃ N ₄ composites prepared by spark plasma sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , 2013 , 41, 540-546	4.1	13
115	Formation of ZrTiCuNiBe bulk metallic glass by shock-wave quenching. <i>Applied Physics Letters</i> , 2005 , 87, 051904	3.4	13
114	Biomimetic co-assembled nanodrug of doxorubicin and berberine suppresses chemotherapy-exacerbated breast cancer metastasis. <i>Biomaterials</i> , 2021 , 271, 120716	15.6	13
113	Effect of Si on Fe-rich intermetallic formation and mechanical properties of heat-treated AlCuMnBe alloys. <i>Journal of Materials Research</i> , 2018 , 33, 898-911	2.5	13
112	Effect of Si addition and applied pressure on microstructure and tensile properties of as-cast Al-5.0Cu-0.6Mn-1.2Fe alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 1061-1072	3.3	13

111	Cancer-leukocyte hybrid membrane-cloaked magnetic beads for the ultrasensitive isolation, purification, and non-destructive release of circulating tumor cells. <i>Nanoscale</i> , 2020 , 12, 19121-19128	7.7	12
110	High-strength and free-cutting silicon brasses designed via the zinc equivalent rule. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 723, 296-305	5.3	11
109	Bulk TiBeBased Ceramic Composites with Improved Mechanical Property Using Fe-Ni-Ti-Al as a Sintering Aid. <i>Materials</i> , 2014 , 7, 7105-7117	3.5	11
108	Microstructure and magnetic properties of anisotropic NdBeB magnets prepared by spark plasma sintering and hot deformation. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 3142-3151	3.3	11
107	Ultrafast consolidation of bulk nanocrystalline titanium alloy through ultrasonic vibration. <i>Scientific Reports</i> , 2018 , 8, 801	4.9	10
106	Unusual dry sliding tribological behavior of biomedical ultrafine-grained TiNbZrTaFe composites fabricated by powder metallurgy. <i>Journal of Materials Research</i> , 2014 , 29, 902-909	2.5	10
105	High speed impact on Zr ₄₁ Ti ₁₄ Cu _{12.5} Ni ₁₀ Be _{22.5} bulk metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 426, 298-304	5.3	10
104	Void formation and cracking of Zr ₄₁ Ti ₁₄ Cu _{12.5} - Ni ₁₀ Be _{22.5} bulk metallic glass under planar shock compression. <i>Journal of Materials Science</i> , 2005 , 40, 3917-3920	4.3	10
103	A nanoparticulate dual scavenger for targeted therapy of inflammatory bowel disease.. <i>Science Advances</i> , 2022 , 8, eabj2372	14.3	10
102	Surface deep oxidation of ofloxacin and 2,4-dichlorophenol over ferrocene@sepiolite due to their synergistic effect in visible light driven heterogeneous Fenton reaction process. <i>Environmental Science: Nano</i> , 2018 , 5, 1943-1950	7.1	10
101	Friction welding of electron beam melted Ti-6Al-4V. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 761, 138045	5.3	9
100	Influence of powder shape on atomic diffusivity and resultant densification mechanisms during spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2019 , 802, 600-608	5.7	9
99	Bulk multimodal-grained irons with large plasticity fabricated by spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 591, 54-58	5.3	9
98	Microstructure and Mechanical Properties of SPSed (Spark Plasma Sintered) Ti ₆₆ Nb ₁₃ Cu ₈ Ni _{6.8} Al _{6.2} Bulk Alloys with and without WC Addition. <i>Materials Transactions</i> , 2009 , 50, 1720-1724	1.3	9
97	A DAMP-scavenging, IL-10-releasing hydrogel promotes neural regeneration and motor function recovery after spinal cord injury. <i>Biomaterials</i> , 2021 , 280, 121279	15.6	9
96	More reactive oxygen species generation facilitated by highly dispersed bimodal gold nanoparticle on the surface of BiWO ₄ for enhanced photocatalytic degradation of ofloxacin in water. <i>Chemosphere</i> , 2021 , 269, 128717	8.4	9
95	A versatile logic detector and fluorescent film based on Eu-based MOF for swift detection of formaldehyde in solutions and gas phase. <i>Journal of Hazardous Materials</i> , 2021 , 410, 124624	12.8	9
94	Improved mechanical properties of biomedical ZrNbHf alloy induced by oxidation treatment. <i>Materials & Design</i> , 2015 , 78, 25-32		8

93	Influence of In content on physical properties of β -type TiNbZrIn powders prepared by mechanical alloying. <i>Vacuum</i> , 2018 , 151, 175-181	3.7	8
92	Comparison of TiAl-Based Intermetallics Joints Brazed with Amorphous and Crystalline TiZrCuNiCoMo Fillers. <i>Advanced Engineering Materials</i> , 2016 , 18, 341-347	3.5	8
91	Microstructure evolution and thermal properties in FeMoPCB alloy during mechanical alloying. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1459-1464	3.9	8
90	Research on Binderless Tungsten Carbide Prepared by Spark Plasma Sintering. <i>Applied Mechanics and Materials</i> , 2010 , 37-38, 980-984	0.3	8
89	Crystallization of Zr ₄₁ Ti ₁₄ Cu _{12.5} Ni ₁₀ Be _{22.5} bulk metallic glass under high pressure examined by in situ synchrotron radiation x-ray diffraction. <i>Journal of Applied Physics</i> , 2006 , 99, 023525	2.5	8
88	Damage Features of Zr ₄₁ Ti ₁₄ Cu _{12.5} Ni ₁₀ Be _{22.5} Bulk Metallic Glass Impacted by Hypervelocity Projectiles. <i>Journal of Spacecraft and Rockets</i> , 2006 , 43, 565-567	1.5	8
87	Effects of sintering parameters on the microstructure and mechanical properties of carbon nanotubes reinforced aluminum matrix composites. <i>Journal of Materials Research</i> , 2016 , 31, 3757-3765	2.5	8
86	An Innovative Approach to Separate Iron Oxide Concentrate from High-sulfur and Low-grade Pyrite Cinders. <i>Journal of Iron and Steel Research International</i> , 2016 , 23, 756-764	1.2	8
85	Achieving ultrahigh-strength in beta-type titanium alloy by controlling the melt pool mode in selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141731	5.3	8
84	Effects of Unreacted Ti Particles on the Dry Sliding Tribological Behavior of Squeeze-Cast (SiCp + Ti)/7075Al Hybrid Composites Under Different Applied Loads. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	7
83	Achieving super-high strength in an aluminum based composite by reinforcing metallic glassy flakes. <i>Materials Letters</i> , 2020 , 262, 127059	3.3	7
82	Carbon dots-MnO nanocomposites for As(III) detection in groundwater with high sensitivity and selectivity. <i>Analytical Methods</i> , 2020 , 12, 5572-5580	3.2	7
81	Effect of heat treatments on the microstructure and mechanical properties of Ti ₂ AlNb intermetallic fabricated by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 817, 141352	5.3	7
80	Machining performance of PCD and PCBN tools in dry turning titanium alloy Ti-6Al-0.6Cr-0.4Fe-0.4Si-0.01B. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 102, 2649-2661	3.2	6
79	Significant enhancement of photo-Fenton degradation of ofloxacin over Fe-Dis@Sep due to highly dispersed FeC with electron deficiency. <i>Science of the Total Environment</i> , 2020 , 723, 138144	10.2	6
78	Tough TiB ₂ -Based Ceramic Composites Using Metallic Glass Powder as the Sintering Aid . <i>Advanced Engineering Materials</i> , 2016 , 18, 1936-1943	3.5	6
77	Interface Structure and Mechanical Properties of 7075Al Hybrid Composite Reinforced with Micron Ti Metal Particles Using Pressure Infiltration. <i>Metals</i> , 2019 , 9, 763	2.3	6
76	High Plastic Ti ₆₆ Nb ₁₃ Cu ₈ Ni _{6.8} Al _{6.2} Composites with In Situ β Ti Phase Synthesized by Spark Plasma Sintering of Mechanically Alloyed Glassy Powders. <i>Materials Science Forum</i> , 2010 , 638-642, 1642-1647	0.4	6

75	Fabrication of Ultrafine-Grained Ti66Nb18Cu6.4Ni6.1Al3.5 Composites with High Strength and Distinct Plasticity by Spark Plasma Sintering and Crystallization of Amorphous Phase. <i>Materials Transactions</i> , 2012 , 53, 531-536	1.3	6
74	Portable smartphone-integrated paper sensors for fluorescence detection of As(III) in groundwater. <i>Royal Society Open Science</i> , 2020 , 7, 201500	3.3	6
73	One-pot synthesis of chlorhexidine-templated biodegradable mesoporous organosilica nanoantiseptics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 187, 110653	6	6
72	Deformation induced precipitation of MgZn ₂ -type laves phase in Ti-Fe-Co alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 795-802	5.7	6
71	Additive manufacturing of a martensitic CoCrMo alloy: Towards circumventing the strength-ductility trade-off. <i>Additive Manufacturing</i> , 2021 , 37, 101725	6.1	6
70	Construction of salicylaldehyde analogues as turn-on fluorescence probes and their electronic effect on sensitive and selective detection of As(V) in groundwater. <i>Analytical Methods</i> , 2019 , 11, 955-964	3.2	5
69	Microstructure evolution and superelasticity of Ti-24Nb-xZr alloys fabricated by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153875	5.7	5
68	Abnormal hot deformation behavior in a metallic-glass-reinforced Al-7075 composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 785, 139212	5.3	5
67	Bonding mechanism of X10CrNi18-8 with Ni/Al ₂ O ₃ composite ceramic by pressureless infiltration. <i>Central South University</i> , 2011 , 18, 953-959		5
66	Microstructure and mechanical properties of nanocrystalline WC-particle-reinforced Ti-based composites with nano/ultrafine-grained intermetallic matrix from spark plasma sintering and crystallization of amorphous phase. <i>International Journal of Materials Research</i> , 2012 , 103, 613-619	0.5	5
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