

# Chao Yang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

200  
papers

4,906  
citations

35  
h-index

63  
g-index

206  
ext. papers

6,179  
ext. citations

5.2  
avg. IF

5.99  
L-index

#	Paper	IF	Citations
200	Silver Mesoporous Silica Nanoparticles: Fabrication to Combination Therapies for Cancer and Infection.. <i>Chemical Record</i> , <b>2022</b> , e202100287	6.6	0
199	Comprehensive characterisation of tribo-layer in a Cu-15Ni-8Sn alloy during dry sliding wear. <i>Materials Science and Technology</i> , <b>2022</b> , 38, 57-68	1.5	1
198	A nanoparticulate dual scavenger for targeted therapy of inflammatory bowel disease.. <i>Science Advances</i> , <b>2022</b> , 8, eabj2372	14.3	10
197	Circumventing the strength-ductility trade-off of $\beta$ -type titanium alloys by defect engineering during laser powder bed fusion. <i>Additive Manufacturing</i> , <b>2022</b> , 51, 102640	6.1	1
196	Insight into enhanced Fenton-like degradation of antibiotics over CuFeO based nanocomposite: To improve the utilization efficiency of OH/O via minimizing its migration distance.. <i>Chemosphere</i> , <b>2022</b> , 133743	8.4	1
195	Simultaneous enhancement of mechanical and shape memory properties by heat-treatment homogenization of Ti <sub>2</sub> Ni precipitates in TiNi shape memory alloy fabricated by selective laser melting. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 101, 205-216	9.1	17
194	Scalable biomimetic SARS-CoV-2 nanovaccines with robust protective immune responses.. <i>Signal Transduction and Targeted Therapy</i> , <b>2022</b> , 7, 96	21	3
193	Decomposition of cellular structure in selective laser melted Cu <sub>30</sub> Zn <sub>70</sub> Bi silicon brass and its influence on microstructure, mechanical and corrosion properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 841, 143055	5.3	
192	Altered phase transformation behaviors and enhanced bending shape memory property of NiTi shape memory alloy via selective laser melting. <i>Journal of Materials Processing Technology</i> , <b>2022</b> , 303, 117546	5.3	1
191	Shear-accelerated crystallization of glass-forming metallic liquids in high-pressure die casting. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 117, 146-157	9.1	0
190	Uncovering electromigration effect on densification during electrical field assisted sintering. <i>Journal of Materials Processing Technology</i> , <b>2022</b> , 117630	5.3	0
189	Improvement in tensile plasticity of pressureless-sintered TiBw/Ti composites by evading Kirkendall's pore. <i>Powder Technology</i> , <b>2021</b> ,	5.2	2
188	Rapid and sensitive screening of multiple polycyclic aromatic hydrocarbons by a reusable fluorescent sensor array. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 424, 127694	12.8	3
187	A DAMP-scavenging, IL-10-releasing hydrogel promotes neural regeneration and motor function recovery after spinal cord injury. <i>Biomaterials</i> , <b>2021</b> , 280, 121279	15.6	9
186	Microstructure, shape memory properties, and in vitro biocompatibility of porous NiTi scaffolds fabricated via selective laser melting. <i>Journal of Materials Research and Technology</i> , <b>2021</b> ,	5.5	1
185	Microstructure and oxidation resistance of CoNiCrAlY coating manufactured by laser powder bed fusion. <i>Surface and Coatings Technology</i> , <b>2021</b> , 427, 127846	4.4	1
184	High-Performance TiBw/Ti Composite Prepared by Hot Extrusion. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2044, 012034	0.3	

183	Finite element simulation on mechanical properties of zeolite as a potential cellular structure. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2044, 012010	0.3	
182	Microstructure and mechanical properties of Ni <sub>50.7</sub> Ti <sub>49.3</sub> shape memory alloy fabricated by selective laser melting. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2044, 012078	0.3	0
181	More reactive oxygen species generation facilitated by highly dispersed bimodal gold nanoparticle on the surface of BiWO <sub>4</sub> for enhanced photocatalytic degradation of ofloxacin in water. <i>Chemosphere</i> , <b>2021</b> , 269, 128717	8.4	9
180	Biomimetic co-assembled nanodrug of doxorubicin and berberine suppresses chemotherapy-exacerbated breast cancer metastasis. <i>Biomaterials</i> , <b>2021</b> , 271, 120716	15.6	13
179	Fabrication of highly dissimilar TC4/steel joint with V/Cu composite transition layer by laser melting deposition. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 862, 158319	5.7	3
178	Effect of heat treatments on the microstructure and mechanical properties of Ti <sub>2</sub> AlNb intermetallic fabricated by selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 817, 141352	5.3	7
177	Mechanical Properties of WC-Si <sub>3</sub> N <sub>4</sub> Composites With Ultrafine Porous Boron Nitride Nanofiber Additive. <i>Frontiers in Materials</i> , <b>2021</b> , 8,	4	3
176	Copper in LaMnO <sub>3</sub> to promote peroxymonosulfate activation by regulating the reactive oxygen species in sulfamethoxazole degradation. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 411, 125163	12.8	23
175	Coordination and Redox Dual-Responsive Mesoporous Organosilica Nanoparticles Amplify Immunogenic Cell Death for Cancer Chemoimmunotherapy. <i>Small</i> , <b>2021</b> , 17, e2100006	11	17
174	Overcoming the strength-ductility trade-off by tailoring grain-boundary metastable Si-containing phase in Type titanium alloy. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 68, 112-123	9.1	36
173	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> , <b>2021</b> , 410, 124624	12.8	9
172	Sulfur quantum dot-based portable paper sensors for fluorometric and colorimetric dual-channel detection of cobalt. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 4782-4796	4.3	5
171	Additive manufacturing of a martensitic Co-Cr-Mo alloy: Towards circumventing the strength-ductility trade-off. <i>Additive Manufacturing</i> , <b>2021</b> , 37, 101725	6.1	6
170	Bimorphic microstructure in Ti-6Al-4V alloy manipulated by spark plasma sintering and in-situ press forging. <i>Scripta Materialia</i> , <b>2021</b> , 193, 43-48	5.6	32
169	Microstructure and mechanical properties of TiAl/Ni-based superalloy joints vacuum brazed with Ti <sub>2</sub> ZrBeCuNiCoMo filler metal. <i>Rare Metals</i> , <b>2021</b> , 40, 2134-2142	5.5	1
168	Microstructure and electrochemical corrosion behavior of selective laser melted Ti <sub>6</sub> Al <sub>4</sub> V alloy in simulated artificial saliva. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2021</b> , 31, 167-177	3.3	3
167	Near-infrared light-responsive hybrid hydrogels for the synergistic chemo-photothermal therapy of oral cancer. <i>Nanoscale</i> , <b>2021</b> , 13, 17168-17182	7.7	4
166	Reinjection flow field-flow fractionation method for nanoparticle quantitative analysis in unknown and complex samples. <i>Journal of Chromatography A</i> , <b>2021</b> , 1638, 461897	4.5	1

165	Nanosilver-Decorated Biodegradable Mesoporous Organosilica Nanoparticles for GSH-Responsive Gentamicin Release and Synergistic Treatment of Antibiotic-Resistant Bacteria. <i>International Journal of Nanomedicine</i> , <b>2021</b> , 16, 4631-4642	7.3	2
164	Chemoimmunotherapy: Coordination and Redox Dual-Responsive Mesoporous Organosilica Nanoparticles Amplify Immunogenic Cell Death for Cancer Chemoimmunotherapy (Small 26/2021). <i>Small</i> , <b>2021</b> , 17, 2170130	11	0
163	Revealing dehydrogenation effect and resultant densification mechanism during pressureless sintering of TiH <sub>2</sub> powder. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 873, 159792	5.7	3
162	Microstructure and mechanical properties of TiNbFeCoAl alloys prepared by semi-solid sintering assisted by thermo-mechanical field. <i>Vacuum</i> , <b>2021</b> , 190, 110316	3.7	
161	Achieving ultrahigh-strength in beta-type titanium alloy by controlling the melt pool mode in selective laser melting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 823, 141731	5.3	8
160	The effect of electric pulse aided ultrasonic rolling processing on the microstructure evolution, surface properties, and fatigue properties of a titanium alloy Ti5Al4Mo6V2Nb1Fe. <i>Surface and Coatings Technology</i> , <b>2021</b> , 421, 127408	4.4	0
159	Influence of discharge plasma modification on physical properties and resultant densification mechanism of spherical titanium powder. <i>Powder Technology</i> , <b>2021</b> , 389, 138-144	5.2	0
158	Stable tensile recovery strain induced by a Ni <sub>4</sub> Ti <sub>3</sub> nanoprecipitate in a Ni <sub>50.4</sub> Ti <sub>49.6</sub> shape memory alloy fabricated via selective laser melting. <i>Acta Materialia</i> , <b>2021</b> , 219, 117261	8.4	27
157	Large tensile plasticity in Zr-based metallic glass/stainless steel interpenetrating-phase composites prepared by high pressure die casting. <i>Composites Part B: Engineering</i> , <b>2021</b> , 224, 109226	10	4
156	A novel yielding anisotropy and corresponding lattice evolution mechanism in CP-Ti achieved via pulsed electric current. <i>Materials and Design</i> , <b>2021</b> , 209, 110013	8.1	0
155	Effect of silicon content on the microstructure evolution, mechanical properties, and biocompatibility of β-type TiNbZrTa alloys fabricated by laser powder bed fusion.. <i>Materials Science and Engineering C</i> , <b>2021</b> , 112625	8.3	2
154	Biomimetic Diselenide-Bridged Mesoporous Organosilica Nanoparticles as an X-ray-Responsive Biodegradable Carrier for Chemo-Immunotherapy. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004385	24	61
153	Effect of ultrasonic surface rolling on surface layer properties and fretting wear properties of titanium alloy Ti5Al4Mo6V2Nb1Fe. <i>Surface and Coatings Technology</i> , <b>2020</b> , 389, 125612	4.4	16
152	Efficient fenton-like degradation of ofloxacin over bimetallic Fe-Cu@Sepiolite composite. <i>Chemosphere</i> , <b>2020</b> , 257, 127209	8.4	16
151	Tailoring chip morphology by correlating the microstructure and dynamic yield strength in turning of lead-free silicon brasses. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 53, 420-430	5	1
150	Comparative analysis of the hot-isostatic-pressing densification behavior of atomized and milled Ti6Al4V powders. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 3091-3108	5.5	3
149	Microstructure evolution and superelasticity of Ti-24Nb-xZr alloys fabricated by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 823, 153875	5.7	5
148	Tannic Acid-Assisted Synthesis of Biodegradable and Antibacterial Mesoporous Organosilica Nanoparticles Decorated with Nanosilver. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 1695-1702	8.3	13

147	Abnormal hot deformation behavior in a metallic-glass-reinforced Al-7075 composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 785, 139212	5.3	5
146	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> , <b>2020</b> , 723, 138144	10.2	6
145	Portable smartphone-integrated paper sensors for fluorescence detection of As(III) in groundwater. <i>Royal Society Open Science</i> , <b>2020</b> , 7, 201500	3.3	6
144	One-pot synthesis of chlorhexidine-templated biodegradable mesoporous organosilica nanoantiseptics. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 187, 110653	6	6
143	Achieving super-high strength in an aluminum based composite by reinforcing metallic glassy flakes. <i>Materials Letters</i> , <b>2020</b> , 262, 127059	3.3	7
142	Drop Tower Experiment to Study the Effect of Microgravity on Friction Behavior: Experimental Set-up and Preliminary Results. <i>Microgravity Science and Technology</i> , <b>2020</b> , 32, 1095-1104	1.6	0
141	Carbon dots-MnO nanocomposites for As(III) detection in groundwater with high sensitivity and selectivity. <i>Analytical Methods</i> , <b>2020</b> , 12, 5572-5580	3.2	7
140	In-situ alloyed, oxide-dispersion-strengthened CoCrFeMnNi high entropy alloy fabricated via laser powder bed fusion. <i>Materials and Design</i> , <b>2020</b> , 194, 108966	8.1	35
139	Cancer-leukocyte hybrid membrane-cloaked magnetic beads for the ultrasensitive isolation, purification, and non-destructive release of circulating tumor cells. <i>Nanoscale</i> , <b>2020</b> , 12, 19121-19128	7.7	12
138	Microstructure and mechanical property of bimodal-size metallic glass particle-reinforced Al alloy matrix composites. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 814, 152317	5.7	15
137	Premature failure of an additively manufactured material. <i>NPG Asia Materials</i> , <b>2020</b> , 12,	10.3	44
136	Tailoring Grain Boundary and Resultant Plasticity of Pure Iron by Pulsed-Electric-Current Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 856-862	2.3	3
135	Correlation between atomic diffusivity and densification mechanism during spark plasma sintering of titanium alloy powders. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 787, 112-122	5.7	17
134	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> , <b>2019</b> , 11, 955-964 <sup>2</sup>	3.2	5
133	Friction welding of electron beam melted Ti-6Al-4V. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 761, 138045	5.3	9
132	A Review on High-Strength Titanium Alloys: Microstructure, Strengthening, and Properties. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1801359	3.5	56
131	Influence of powder shape on atomic diffusivity and resultant densification mechanisms during spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 802, 600-608	5.7	9
130	Superior Wear Resistance in EBM-Processed TC4 Alloy Compared with SLM and Forged Samples. <i>Materials</i> , <b>2019</b> , 12,	3.5	16

129	Effective atomic diffusion coefficient dependence on applied pressure during spark plasma sintering. <i>Materialia</i> , <b>2019</b> , 6, 100334	3.2	4
128	Effects of Applied Pressure on the Atomic Diffusion Coefficient During Spark Plasma Sintering of Crystalline Powders. <i>Jom</i> , <b>2019</b> , 71, 2475-2483	2.1	0
127	Novel Colorimetric Method for Simultaneous Detection and Identification of Multimetal Ions in Water: Sensitivity, Selectivity, and Recognition Mechanism. <i>ACS Omega</i> , <b>2019</b> , 4, 5915-5922	3.9	20
126	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> , <b>2019</b> , 102, 2649-2661	3.2	6
125	Interface Structure and Mechanical Properties of 7075Al Hybrid Composite Reinforced with Micron Ti Metal Particles Using Pressure Infiltration. <i>Metals</i> , <b>2019</b> , 9, 763	2.3	6
124	Ultrahigh-performance TiNi shape memory alloy by 4D printing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 763, 138166	5.3	76
123	Safe and efficient degradation of metronidazole using highly dispersed $\gamma$ -FeOOH on palygorskite as heterogeneous Fenton-like activator of hydrogen peroxide. <i>Chemosphere</i> , <b>2019</b> , 236, 124367	8.4	19
122	Influence of Particle Size on Apparent Diffusivity During Spark Plasma Sintering of Crystalline Powders. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2019</b> , 50, 2843-2852	2.5	0
121	Correlation between microstructure and deformation mechanism in Ti66Nb13Cu8Ni6.8Al6.2 composites at ambient and elevated temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 767, 138448	5.3	2
120	Effect of Si and Ti on dynamic recrystallization of high-performance Cu15Ni8Sn alloy during hot deformation. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2019</b> , 29, 2556-2565	3.3	18
119	Deformation induced precipitation of MgZn <sub>2</sub> -type laves phase in Ti-Fe-Co alloy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 778, 795-802	5.7	6
118	Influence of In content on physical properties of $\beta$ -type TiNbZrIn powders prepared by mechanical alloying. <i>Vacuum</i> , <b>2018</b> , 151, 175-181	3.7	8
117	Ultrafast consolidation of bulk nanocrystalline titanium alloy through ultrasonic vibration. <i>Scientific Reports</i> , <b>2018</b> , 8, 801	4.9	10
116	Determination of atomic diffusion coefficient via isochronal spark plasma sintering. <i>Scripta Materialia</i> , <b>2018</b> , 151, 47-52	5.6	33
115	High-strength and free-cutting silicon brasses designed via the zinc equivalent rule. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 723, 296-305	5.3	11
114	High-strength silicon brass manufactured by selective laser melting. <i>Materials Letters</i> , <b>2018</b> , 210, 169-173	3.3	48
113	A novel high-strength Al-based nanocomposite reinforced with Ti-based metallic glass nanoparticles produced by powder metallurgy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 734, 34-41	5.3	33
112	Enhanced peroxymonosulfate activation for phenol degradation over MnO at pH 3.5-9.0 via Cu(II) substitution. <i>Journal of Hazardous Materials</i> , <b>2018</b> , 360, 303-310	12.8	55

111	Effect of Si on Fe-rich intermetallic formation and mechanical properties of heat-treated AlCuMnFe alloys. <i>Journal of Materials Research</i> , <b>2018</b> , 33, 898-911	2.5	13
110	A carbon-dot-based dual-emission probe for ultrasensitive visual detection of copper ions. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 19771-19778	3.6	3
109	Novel AlEgens with a 3,5-dibromobenzaldehyde skeleton: molecular design, synthesis, tunable emission and detection application. <i>Analytical Methods</i> , <b>2018</b> , 10, 5486-5492	3.2	4
108	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> , <b>2018</b> , 28, 1061-1072	3.3	13
107	Effect of Zr addition on the microstructure and tribological property of the anodization of Ti-6Al-4V alloy. <i>Surface and Coatings Technology</i> , <b>2018</b> , 356, 38-48	4.4	14
106	Machining Performance of TiAlN-Coated Cemented Carbide Tools with Chip Groove in Machining Titanium Alloy Ti-6Al-0.6Cr-0.4Fe-0.4Si-0.01B. <i>Metals</i> , <b>2018</b> , 8, 850	2.3	5
105	A Control Method of High Impact Energy and Cosimulation in Powder High-Velocity Compaction. <i>Advances in Materials Science and Engineering</i> , <b>2018</b> , 2018, 1-11	1.5	3
104	Microstructural Evolution and Mechanical Behavior of Lead-Free Silicon Brass Manufactured by Low-Pressure Die Casting. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 5478-5488	1.6	4
103	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> , <b>2018</b> , 5, 1943-1950	7.1	10
102	Ultrahigh strength and large plasticity of nanostructured Ti <sub>62</sub> Nb <sub>12.2</sub> Fe <sub>13.6</sub> Co <sub>6.4</sub> Al <sub>5.8</sub> alloy obtained by selectively controlled micrometer-sized phases. <i>Materials Characterization</i> , <b>2017</b> , 124, 260-263	3.9	3
101	Designing ultrafine lamellar eutectic structure in bimodal titanium alloys by semi-solid sintering. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 702, 51-59	5.7	17
100	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> , <b>2017</b> , 65, 1	2.8	7
99	Bimodal titanium alloys with ultrafine lamellar eutectic structure fabricated by semi-solid sintering. <i>Acta Materialia</i> , <b>2017</b> , 132, 491-502	8.4	85
98	Heterogeneous photo Fenton-like degradation of cibacron brilliant red 3B-A dye using amorphous Fe <sub>78</sub> Si <sub>9</sub> B <sub>13</sub> and Fe <sub>73.5</sub> Si <sub>13.5</sub> B <sub>9</sub> Cu <sub>1</sub> Nb <sub>3</sub> alloys: The influence of adsorption. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2017</b> , 71, 128-136	5.3	40
97	Bimodal eutectic titanium alloys: Microstructure evolution, mechanical behavior and strengthening mechanism. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 700, 10-18	5.3	13
96	Reaction diffusion rate coefficient derivation by isothermal heat treatment in spark plasma sintering system. <i>Scripta Materialia</i> , <b>2017</b> , 134, 91-94	5.6	29
95	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> , <b>2017</b> , 204, 537-547	21.8	130
94	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 &amp; Technology</i> , <b>2017</b> , 51, 12699-12706	10.3	172

93	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> , <b>2017</b> , 27, 1702258	15.6	118
92	Effect of zirconium on microstructures and mechanical properties of squeeze cast Al <sub>85</sub> .0Cu <sub>0.4</sub> Mn <sub>0.1</sub> Ti <sub>0.1</sub> RE alloy. <i>Journal of Central South University</i> , <b>2017</b> , 24, 2231-2237	2.1	1
91	Influence of powder properties on densification mechanism during spark plasma sintering. <i>Scripta Materialia</i> , <b>2017</b> , 139, 96-99	5.6	54
90	Improving the Mechanical Properties of Cu-15Ni-8Sn Alloys by Addition of Titanium. <i>Materials</i> , <b>2017</b> , 10,	3.5	31
89	Tough TiB <sub>2</sub> -Based Ceramic Composites Using Metallic Glass Powder as the Sintering Aid . <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 1936-1943	3.5	6
88	Texture evolution and mechanical behavior of commercially pure Ti processed via pulsed electric current treatment. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 10608-10619	4.3	13
87	Comparison of TiAl-Based Intermetallics Joints Brazed with Amorphous and Crystalline Ti <sub>4</sub> Zr <sub>3</sub> Cu <sub>2</sub> Ni <sub>2</sub> Co <sub>2</sub> Mo Fillers. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 341-347	3.5	8
86	Distinction in corrosion resistance of selective laser melted Ti-6Al-4V alloy on different planes. <i>Corrosion Science</i> , <b>2016</b> , 111, 703-710	6.8	223
85	Carbon doped molybdenum disulfide nanosheets stabilized on graphene for the hydrogen evolution reaction with high electrocatalytic ability. <i>Nanoscale</i> , <b>2016</b> , 8, 1676-83	7.7	73
84	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> , <b>2016</b> , 432, 440-452	3.9	31
83	Equiaxed Ti-based composites with high strength and large plasticity prepared by sintering and crystallizing amorphous powder. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 650, 171-182	5.3	41
82	High-Strength AlCrFeCoNi High Entropy Alloys Fabricated by Using Metallic Glass Powder as Precursor. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 348-353	3.5	18
81	A new insight into high-strength Ti <sub>62</sub> Nb <sub>12.2</sub> Fe <sub>13.6</sub> Co <sub>6.4</sub> Al <sub>5.8</sub> alloys with bimodal microstructure fabricated by semi-solid sintering. <i>Scientific Reports</i> , <b>2016</b> , 6, 23467	4.9	26
80	Effects of sintering parameters on the microstructure and mechanical properties of carbon nanotubes reinforced aluminum matrix composites. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 3757-3765	2.5	8
79	Facile synthesis of hierarchical dendrite-like structure iron layered double hydroxide nanohybrids for effective arsenic removal. <i>Chemical Communications</i> , <b>2016</b> , 52, 11955-11958	5.8	34
78	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> , <b>2016</b> , 23, 756-764	1.2	8
77	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> , <b>2016</b> , 3, 1416-1424	7.1	49
76	Controlled synthesis of truncated octahedral bismuth micron particles with giant positive magnetoresistance. <i>CrystEngComm</i> , <b>2015</b> , 17, 7056-7062	3.3	2



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74	Effects of brazing temperature and testing temperature on the microstructure and shear strength of TiAl joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 634, 91-98	5.3	23
73	Ultrafine grained Ti-based composites with ultrahigh strength and ductility achieved by equiaxing microstructure. <i>Materials &amp; Design</i> , <b>2015</b> , 79, 1-5		79
72	Improved mechanical properties of biomedical ZrNbHf alloy induced by oxidation treatment. <i>Materials &amp; Design</i> , <b>2015</b> , 78, 25-32		8
71	Adsorption behavior of methylene blue on amine-functionalized ordered mesoporous alumina. <i>Journal of Porous Materials</i> , <b>2015</b> , 22, 147-155	2.4	23
70	Well-dispersed magnetic iron oxide nanocrystals on sepiolite nanofibers for arsenic removal. <i>RSC Advances</i> , <b>2015</b> , 5, 25236-25243	3.7	40
69	Biomedical TiNbZrTaSi alloys designed by d-electron alloy design theory. <i>Materials and Design</i> , <b>2015</b> , 85, 7-13	8.1	51
68	Effect of Powder Particle Shape on the Properties of In Situ Ti/B Composite Materials Produced by Selective Laser Melting. <i>Journal of Materials Science and Technology</i> , <b>2015</b> , 31, 1001-1005	9.1	156
67	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 &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 620, 190-197	5.3	19
66	Effect of minor Cu content on microstructure and mechanical property of NiTiCu bulk alloys fabricated by crystallization of metallic glass powder. <i>Intermetallics</i> , <b>2015</b> , 56, 37-43	3.5	17
65	Biomedical porous TiNbZrFe alloys fabricated using NH <sub>4</sub> HCO <sub>3</sub> as pore forming agent through powder metallurgy route. <i>Powder Metallurgy</i> , <b>2015</b> , 58, 228-234	1.9	14
64	Serrated Flow Behavior of Titanium-Based Composites with Different In Situ TiC Contents. <i>Advanced Engineering Materials</i> , <b>2015</b> , 17, 1383-1390	3.5	3
63	Crystallization kinetics and spark plasma sintering of amorphous Ni <sub>53</sub> Nb <sub>20</sub> Ti <sub>10</sub> Zr <sub>8</sub> Co <sub>6</sub> Ta <sub>3</sub> powders prepared by mechanical alloying. <i>Vacuum</i> , <b>2015</b> , 114, 93-100	3.7	16
62	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> , <b>2014</b> , 586, 542-548	5.7	33
61	Machining performance of a grooved tool in dry machining Ti-6Al-4 V. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 73, 613-622	3.2	14
60	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> , <b>2014</b> , 49, 7855-7863	4.3	19
59	Zirconia-toughened WC with/without VC and Cr <sub>3</sub> C <sub>2</sub> . <i>Ceramics International</i> , <b>2014</b> , 40, 2011-2016	5.1	23
58	Bulk TiB <sub>2</sub> Based Ceramic Composites with Improved Mechanical Property Using Fe-Ni-Ti-Al as a Sintering Aid. <i>Materials</i> , <b>2014</b> , 7, 7105-7117	3.5	11

57	Microstructure and magnetic properties of anisotropic NdFeB magnets prepared by spark plasma sintering and hot deformation. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2014</b> , 24, 3142-3151	3.3	11
56	Unusual dry sliding tribological behavior of biomedical ultrafine-grained TiNbZrTaFe composites fabricated by powder metallurgy. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 902-909	2.5	10
55	New Developments of Ti-Based Alloys for Biomedical Applications. <i>Materials</i> , <b>2014</b> , 7, 1709-1800	3.5	553
54	Sinter-hardening with concurrent improved plasticity in iron alloys induced by spark plasma sintering. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 981-988	2.5	2
53	Comparative study of microstructures and mechanical properties of in situ TiTiB composites produced by selective laser melting, powder metallurgy, and casting technologies. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 1941-1950	2.5	96
52	Bulk multimodal-grained irons with large plasticity fabricated by spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 591, 54-58	5.3	9
51	93W5.6Ni1.4Fe heavy alloys with enhanced performance prepared by cyclic spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 599, 233-241	5.3	27
50	(SiCp+Ti)/7075Al hybrid composites with high strength and large plasticity fabricated by squeeze casting. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 609, 250-254	5.3	46
49	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> , <b>2013</b> , 553, 40-47	5.7	30
48	Ti-based bulk metallic glass matrix composites with in situ precipitated Ti phase fabricated by spark plasma sintering. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 359, 15-20	3.9	16
47	Equiaxed grained structure: A structure in titanium alloys with higher compressive mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 580, 397-405	5.3	28
46	Cr3C2 and VC doped WC/Bi3N4 composites prepared by spark plasma sintering. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2013</b> , 41, 540-546	4.1	13
45	Effect of V content on microstructure and mechanical property of a TiVCuNiAl composite fabricated by spark plasma sintering. <i>Materials &amp; Design</i> , <b>2013</b> , 52, 655-662		15
44	ZrO2 (3Y) toughened WC composites prepared by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 572, 62-67	5.7	35
43	Ultrafine-grained Ti-based composites with high strength and low modulus fabricated by spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 560, 857-861	5.3	50
42	In-situ elongated Bi3N4 grains toughened WC composites prepared by one/two-step spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 561, 445-451	5.3	19
41	Effect of Minor Alloying Substitution on Glass-Forming Ability and Crystallization Behavior of a Ni57Zr22X8Nb8Al5 (X = Ti, Cu) Alloy Synthesized by Mechanical Alloying. <i>Materials Transactions</i> , <b>2013</b> , 54, 1844-1850	1.3	2
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39	Formation of FeNb <sub>x</sub> (X=Zr, Ti) amorphous alloys from pure metal elements by mechanical alloying. <i>Physica B: Condensed Matter</i> , <b>2012</b> , 407, 258-262	2.8	15
38	Study on the discharge breakdown for carbonyl iron powder sintered by pulse electric current. <i>Procedia Engineering</i> , <b>2012</b> , 27, 1434-1440		2
37	Microstructure evolution and thermal properties in FeMoPCB alloy during mechanical alloying. <i>Journal of Non-Crystalline Solids</i> , <b>2012</b> , 358, 1459-1464	3.9	8
36	Fabrication of biomedical Ti <sub>5</sub> Nb <sub>7</sub> Zr <sub>5</sub> Ta alloys by mechanical alloying and spark plasma sintering. <i>Powder Metallurgy</i> , <b>2012</b> , 55, 65-70	1.9	37
35	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> , <b>2012</b> , 103, 613-619	0.5	5
34	Fabrication of Ultrafine-Grained Ti <sub>66</sub> Nb <sub>13</sub> Cu <sub>8</sub> Ni <sub>6.8</sub> Al <sub>6.2</sub> Composites with High Strength and Distinct Plasticity by Spark Plasma Sintering and Crystallization of Amorphous Phase. <i>Materials Transactions</i> , <b>2012</b> , 53, 531-536	1.3	6
33	Densification and microstructure evolution during SPS consolidation process in W-Ni-Fe system. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2011</b> , 21, 493-501	3.3	31
32	Effects of Minor B <sub>4</sub> C or C on Amorphous Ti <sub>66</sub> Nb <sub>13</sub> Cu <sub>8</sub> Ni <sub>6.8</sub> Al <sub>6.2</sub> Alloy Powders Synthesized by Mechanical Alloying. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2011</b> , 21, 802-808	3.2	3
31	Bonding mechanism of X10CrNi18-8 with Ni/Al <sub>2</sub> O <sub>3</sub> composite ceramic by pressureless infiltration. <i>Central South University</i> , <b>2011</b> , 18, 953-959		5
30	Ductile fine-grained Ti <sub>66</sub> -based composites with ultrahigh compressive specific strength fabricated by spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 1897-1900	5.3	18
29	Fabrication of Ti <sub>66</sub> V <sub>13</sub> Cu <sub>8</sub> Ni <sub>6.8</sub> Al <sub>6.2</sub> Bulk Composites with High Strength by Spark Plasma Sintering and Crystallization of Amorphous Phase. <i>Advanced Materials Research</i> , <b>2011</b> , 284-286, 25-31	0.5	1
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27	WC-8Co-2Al (wt%) Cemented Carbides Prepared by Mechanical Milling and Spark Plasma Sintering. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 1817-1823	0.4	1
26	Research on Binderless Tungsten Carbide Prepared by Spark Plasma Sintering. <i>Applied Mechanics and Materials</i> , <b>2010</b> , 37-38, 980-984	0.3	8
25	High Plastic Ti <sub>66</sub> Nb <sub>13</sub> Cu <sub>8</sub> Ni <sub>6.8</sub> Al <sub>6.2</sub> Composites with In Situ Ti Phase Synthesized by Spark Plasma Sintering of Mechanically Alloyed Glassy Powders. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 1642-1647	0.4	6
24	Nucleation and growth mechanism of crystalline phase for fabrication of ultrafine-grained Ti <sub>66</sub> Nb <sub>13</sub> Cu <sub>8</sub> Ni <sub>6.8</sub> Al <sub>6.2</sub> composites by spark plasma sintering and crystallization of amorphous phase. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 528, 486-493	5.3	42
23	Ultrafine-grained Ti <sub>66</sub> Nb <sub>13</sub> Cu <sub>8</sub> Ni <sub>6.8</sub> Al <sub>6.2</sub> composites fabricated by spark plasma sintering and crystallization of amorphous phase. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 2118-2122	2.5	35
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21	Preliminary investigation of chloramphenicol in fish, water and sediment from freshwater aquaculture pond. <i>International Journal of Environmental Science and Technology</i> , <b>2009</b> , 6, 597-604	3.3	33
20	Microstructure and Mechanical Properties of SPSed (Spark Plasma Sintered) Ti66Nb13Cu8Ni6.8Al6.2 Bulk Alloys with and without WC Addition. <i>Materials Transactions</i> , <b>2009</b> , 50, 1720-1724 <sup>9</sup>	1.3	24 <sup>9</sup>
19	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> , <b>2008</b> , 23, 745-754	2.5	25
18	Pressure effect on crystallization of Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> bulk metallic glass prepared by shock-wave quenching. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 015201	1.8	2
17	Phase Transition of Shock-Loaded ZrTiCuNiBe Bulk Metallic Glass under Continuous Heating. <i>Materials Transactions</i> , <b>2008</b> , 49, 869-873	1.3	1
16	Potential superhard cubic spinel CSi <sub>2</sub> N <sub>4</sub> : First-principles investigations. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 083533	2.5	21
15	Effects of Mn, Ti and V on the microstructure and properties of AlCrFeCoNiCu high entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 498, 482-486	5.3	175
14	Microstructure and compressive properties of AlCrFeCoNi high entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 491, 154-158	5.3	32 <sup>0</sup>
13	In situ X-ray diffraction study on crystallization of shock-wave-quenched Zr-based bulk metallic glasses. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 449-451, 617-620	5.3	3
12	Oxygen-induced amorphization of metallic titanium by ball milling. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 1927-1932	2.5	18
11	Crystallization of Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> bulk metallic glass under high pressure examined by in situ synchrotron radiation x-ray diffraction. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 023525	2.5	8
10	Damage Features of Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> Bulk Metallic Glass Impacted by Hypervelocity Projectiles. <i>Journal of Spacecraft and Rockets</i> , <b>2006</b> , 43, 565-567	1.5	8
9	High speed impact on Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12.5</sub> Ni <sub>10</sub> Be <sub>22.5</sub> bulk metallic glass. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 426, 298-304	5.3	10
8	Formation of ZrTiCuNiBe bulk metallic glass by shock-wave quenching. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 051904	3.4	13
7	Void formation and cracking of Zr <sub>41</sub> Ti <sub>14</sub> Cu <sub>12.5</sub> - Ni <sub>10</sub> Be <sub>22.5</sub> bulk metallic glass under planar shock compression. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 3917-3920	4.3	10
6	Gravity-driven Beryllium Transport in ZrTiCuNiBe Melt and its Influence on Glass Formation. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2302-2306	2.5	4
5	Effect of proton irradiation on structure relaxation of Zr <sub>41.5</sub> Ti <sub>14.9</sub> Cu <sub>12.6</sub> Ni <sub>10.5</sub> Be <sub>20.4</sub> bulk metallic glass. <i>Science Bulletin</i> , <b>2004</b> , 49, 999-1001		
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