

Zhongming Ren

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.

280
papers

3,827
citations

31
h-index

47
g-index

284
ext. papers

4,959
ext. citations

4.2
avg, IF

5.86
L-index

#	Paper	IF	Citations
280	Magnetic properties and giant cryogenic magnetocaloric effect in B-site ordered antiferromagnetic Gd ₂ MgTiO ₆ double perovskite oxide. <i>Acta Materialia</i> , 2022 , 226, 117669	8.4	15
279	4D synchrotron X-ray tomographic study of the influence of transverse magnetic field on iron intermetallic compounds precipitation behavior during solidification of AlSi ₁₀ Fe alloy. <i>Intermetallics</i> , 2022 , 143, 107471	3.5	2
278	Controlled moderate sulfidation-fabricated hierarchical heterogeneous nickel sulfides-based electrocatalyst with tripartite Mo doping for efficient oxygen evolution. <i>Journal of Energy Chemistry</i> , 2022 , 68, 780-788	12	0
277	Effects of laser scanning speed and building direction on the microstructure and mechanical properties of selective laser melted Inconel 718 superalloy. <i>Materials Today Communications</i> , 2022 , 30, 103095	2.5	0
276	Electrodeposition-derived defect-rich heterogeneous trimetallic sulfide/hydroxide nanotubes/nanobelts for efficient electrocatalytic oxygen production. <i>Chemical Engineering Journal</i> , 2022 , 430, 133073	14.7	1
275	Achievement of giant cryogenic refrigerant capacity in quinary rare-earths based high-entropy amorphous alloy. <i>Journal of Materials Science and Technology</i> , 2022 , 102, 66-71	9.1	26
274	Magnetic properties and promising magnetocaloric performances in the antiferromagnetic GdFe ₂ Si ₂ compound. <i>Science China Materials</i> , 2022 , 65, 1345-1352	7.1	11
273	Microstructure evolution and mechanical properties of laser additive manufactured Ti6Al4V alloy under nitrogen-argon reactive atmosphere. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 841, 143076	5.3	1
272	Glide Mobility of a-Type Edge Dislocations in Aluminum Nitride by Molecular Dynamics Simulation.. <i>ACS Omega</i> , 2022 , 7, 2015-2022	3.9	
271	Enhanced mechanical properties of Ti6Al4V alloy fabricated by laser additive manufacturing under static magnetic field. <i>Materials Research Letters</i> , 2022 , 10, 530-538	7.4	7
270	Effect of a constant laser energy density on the evolution of microstructure and mechanical properties of NiTi shape memory alloy fabricated by laser powder bed fusion. <i>Optics and Laser Technology</i> , 2022 , 152, 108182	4.2	0
269	Strength-ductility synergy of CoCrNi medium-entropy alloy processed with laser powder bed fusion. <i>Materials and Design</i> , 2022 , 219, 110774	8.1	1
268	Glass forming ability, magnetic properties and cryogenic magnetocaloric effects in RE ₆₀ Co ₂₀ Al ₂₀ (RE = Ho, Er, Tm) amorphous ribbons. <i>Journal of Alloys and Compounds</i> , 2021 , 895, 162633	5.7	1
267	Effects of Static Magnetic Field on the Microstructure of Selective Laser Melted Inconel 625 Superalloy: Numerical and Experiment Investigations. <i>Metals</i> , 2021 , 11, 1846	2.3	2
266	Microstructure and mechanical properties of directionally solidified Al-rich Ni ₃ Al-based alloy under static magnetic field. <i>Journal of Materials Science and Technology</i> , 2021 , 110, 117-117	9.1	2
265	Application of Heat Absorption Method to Improve Quality of Large Steel Ingot. <i>ISIJ International</i> , 2021 , 61, 865-870	1.7	1
264	Numerical Simulation of In-mold Electromagnetic Stirring on Slide Gate Caused Bias Flow and Solidification in Slab Continuous Casting. <i>ISIJ International</i> , 2021 , 61, 1860-1871	1.7	1

263	Microstructure evolution and mechanical behavior of Ni-rich Ni-Mn-Ga alloys under compressive and tensile stresses. <i>Journal of Materials Science and Technology</i> , 2021 , 97, 113-113	9.1	2
262	Cryogenic magnetic properties and magnetocaloric effects (MCE) in B-site disordered RE ₂ CuMnO ₆ (RE = Gd, Dy, Ho and Er) double perovskites (DP) compounds. <i>Ceramics International</i> , 2021 , 47, 18205-18212	5.1	10
261	Effect of substrate cooling on the epitaxial growth of Ni-based single-crystal superalloy fabricated by direct energy deposition. <i>Journal of Materials Science and Technology</i> , 2021 , 62, 148-161	9.1	11
260	Effect of γ phase on mechanical behavior and detwinning evolution of directionally solidified Ni-Mn-Ga alloys under uniaxial compression. <i>Journal of Materials Science and Technology</i> , 2021 , 66, 91-96	9.1	4
259	Nondestructive effect of the cusp magnetic field on the dendritic microstructure during the directional solidification of Nickel-based single crystal superalloy. <i>Journal of Materials Science and Technology</i> , 2021 , 62, 52-59	9.1	3
258	Nucleation kinetics of paramagnetic and diamagnetic metal melts under a high magnetic field. <i>Journal of Materials Science and Technology</i> , 2021 , 73, 165-170	9.1	1
257	Structure, magnetic properties and cryogenic magneto-caloric effect (MCE) in RE ₂ FeAlO ₆ (RE = Gd, Dy, Ho) oxides. <i>Ceramics International</i> , 2021 , 47, 6290-6297	5.1	56
256	Effect of sintering aids on microstructure and properties of textured SiC ceramics prepared in 6 T. <i>Journal of Asian Ceramic Societies</i> , 2021 , 9, 85-95	2.4	0
255	Cold spray additive manufacturing of Invar 36 alloy: microstructure, thermal expansion and mechanical properties. <i>Journal of Materials Science and Technology</i> , 2021 , 72, 39-51	9.1	9
254	Evolution Mechanism of Microporosity of Nickel-Based Single-Crystal Superalloy During Solution Heat Treatment Under an Alternating Magnetic Field. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 30-35	2.5	
253	Precipitation Behavior of Nitride Inclusions in K418 Alloy under the Continuous Unidirectional Solidification Process. <i>ISIJ International</i> , 2021 , 61, 229-238	1.7	2
252	Microstructural Evolution and Solute Migration in the Mushy Zone of Peritectic Al-18 At. Pct Ni Alloy in High Magnetic Fields. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 726-740	2.3	0
251	Preparation, mechanical, and leaching properties of CaZrO ₃ ceramic cores. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 1490-1497	2	1
250	Influences of mullite fibers on mechanical and thermal properties of silica-based ceramic cores. <i>International Journal of Applied Ceramic Technology</i> , 2021 , 18, 2284	2	
249	First- and second-order phase transitions in RE ₆ Co ₂ Ga (RE = Ho, Dy or Gd) cryogenic magnetocaloric materials. <i>Science China Materials</i> , 2021 , 64, 2846-2857	7.1	25
248	Al matrix composites fabricated by solid-state cold spray deposition: A critical review. <i>Journal of Materials Science and Technology</i> , 2021 , 86, 20-55	9.1	15
247	Mechanism of improved intermediate temperature plasticity of nickel-base single crystal superalloy with hot isostatic pressing. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 1609-1617	5.5	3
246	In-situ nitrogen strengthening of selective laser melted Ti6Al4V with superior mechanical performance. <i>Additive Manufacturing</i> , 2021 , 46, 102142	6.1	2

245	Effect of annealing treatment on microstructure and mechanical properties of cold sprayed TiB ₂ /AlSi10Mg composites. <i>Surfaces and Interfaces</i> , 2021 , 26, 101341	4.1	2
244	Revealing the influence of high magnetic field on the solute distribution during directional solidification of Al-Cu alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 88, 226-232	9.1	2
243	Investigation of the properties and leaching characteristics of ceramic cores fabricated using BaZrO ₃ as the raw material. <i>Materials Chemistry and Physics</i> , 2021 , 272, 124925	4.4	0
242	Magnetic properties and promising cryogenic magneto-caloric performances of Gd ₂₀ Ho ₂₀ Tm ₂₀ Cu ₂₀ Ni ₂₀ amorphous ribbons. <i>Chinese Physics B</i> , 2021 , 30, 017501	1.2	16
241	Enhanced creep properties of nickel-base single crystal superalloy CMSX-4 by high magnetic field. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140729	5.3	4
240	Effect of Static Magnetic Field on the Evolution of Residual Stress and Microstructure of Laser Remelted Inconel 718 Superalloy. <i>Journal of Thermal Spray Technology</i> , 2020 , 29, 1410-1423	2.5	3
239	Enhanced Degradation in Grain Refinement of Inoculated 2024 Al Alloy in Steady Magnetic field. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 4584-4591	2.3	0
238	Magnetic field-assisted solvothermal synthesis and the magnetic properties of Fe-doped CeO ₂ nanoparticles. <i>Journal of Asian Ceramic Societies</i> , 2020 , 8, 615-623	2.4	3
237	The effect of static magnetic field on solid-liquid interfacial free energy of Al-Cu alloy system. <i>Scripta Materialia</i> , 2020 , 187, 232-236	5.6	8
236	Structural, magnetic and magnetocaloric properties in RE ₂ Ni _{1.5} Ga _{2.5} (RE = Dy, Ho, Er and Tm) compounds. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154666	5.7	6
235	Wetting Transition in a Molten Metal and Solid Substrate System in High Magnetic Fields. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 2333-2343	2.3	2
234	Magnetic-Field-Induced Liquid-Solid Interface Transformation and Its Effect on Microsegregation in Directionally Solidified Ni-Cr Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 4592-4601	2.3	0
233	Structural, magnetic properties and magneto-caloric performances in the antiferromagnetic RECoSi ₂ (RE = Er and Tm) compounds. <i>Journal of Alloys and Compounds</i> , 2020 , 843, 156016	5.7	0
232	Tribological properties of Al/diamond composites produced by cold spray additive manufacturing. <i>Additive Manufacturing</i> , 2020 , 36, 101434	6.1	6
231	Magnetic properties, magnetocaloric effect and refrigeration performance in RE ₆₀ Al ₂₀ Ni ₂₀ (RE = Tm, Er and Ho) amorphous ribbons. <i>Journal of Applied Physics</i> , 2020 , 127, 033905	2.5	5
230	Suppression of β phase and its effect on mechanical behavior of melt-spun and annealed Ni ₄₀ Mn ₄₀ Ga ₂₀ high-temperature shape memory alloys. <i>Materials Today Communications</i> , 2020 , 24, 101165	2.5	
229	Numerical Simulation for the Influence of EMS Position on Fluid Flow and Inclusion Removal in a Slab Continuous Casting Mold. <i>ISIJ International</i> , 2020 , 60, 1204-1212	1.7	4
228	Table-like shape magnetocaloric effect and large refrigerant capacity in dual-phase HoNi/HoNi ₂ composite. <i>Chinese Physics B</i> , 2020 , 29, 107502	1.2	3

227	Electrocatalytic Oxidation and Sensitive Determination of Paracetamol Based on Nanosheets Self-assembled Lindgrenite Microflowers. <i>Electroanalysis</i> , 2020 , 32, 978-985	3	8
226	Microstructure and properties of SiO ₂ -based ceramic cores with ball-shaped powders by the preceramic polymer technique in N ₂ atmosphere. <i>Materials Chemistry and Physics</i> , 2020 , 243, 122609	4.4	2
225	Influence of yttrium oxide addition and sintering temperature on properties of alumina-based ceramic cores. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 685-694	2	1
224	Some new observations on interface reaction between nickel-based single crystal superalloy CMSX-4 and silicon oxide ceramic core. <i>Corrosion Science</i> , 2020 , 177, 108969	6.8	0
223	Study of the microstructure and mechanical performance of C-X stainless steel processed by selective laser melting (SLM). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 781, 139227	5.3	28
222	Control of microstructure using magnetic fields and study of the mechanical behavior of Ni-rich Ni-Mn-Ga alloys. <i>Acta Materialia</i> , 2020 , 199, 383-396	8.4	10
221	Study of pore defect and mechanical properties in selective laser melted Ti6Al4V alloy based on X-ray computed tomography. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 797, 139981	5.3	40
220	Influence of static magnetic field on the heterogeneous nucleation behavior of Al on single crystal Al ₂ O ₃ substrate. <i>Materialia</i> , 2020 , 13, 100847	3.2	2
219	Effects of axial static magnetic field on columnar to equiaxed transition in directionally solidified low carbon steel. <i>Ironmaking and Steelmaking</i> , 2020 , 47, 398-404	1.3	
218	Tuning the structural and magnetic properties of MnZn nano-ferrites synthesized under a high magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 495, 165832	2.8	5
217	Morphologies and magnetic properties of La-doped CeO ₂ nanoparticles by the solvothermal method in a low magnetic field. <i>Materials Chemistry and Physics</i> , 2020 , 240, 122148	4.4	8
216	Microstructure and bending strength improvement of alumina-based ceramic cores by liquid silicone resin infiltration. <i>Materials Chemistry and Physics</i> , 2020 , 239, 122041	4.4	4
215	In-situ observation of solid-liquid interface transition during directional solidification of Al-Zn alloy via X-ray imaging. <i>Journal of Materials Science and Technology</i> , 2020 , 39, 113-123	9.1	11
214	Influence of the pore size and porosity of selective laser melted Ti6Al4V ELI porous scaffold on cell proliferation, osteogenesis and bone ingrowth. <i>Materials Science and Engineering C</i> , 2020 , 106, 110289	8.3	76
213	Magnetic properties and magneto-caloric performances in RECo ₂ B ₂ C (RE = Gd, Tb and Dy) compounds. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 152780	5.7	38
212	Steel/Slag Interface Behavior under Multifunction Electromagnetic Driving in a Continuous Casting Slab Mold. <i>Metals</i> , 2019 , 9, 983	2.3	4
211	Evolutions of the Micro- and Macrostructure and Tensile Property of Cu-15Ni-8Sn Alloy During Electromagnetic Stirring-Assisted Horizontal Continuous Casting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 2111-2120	2.5	2
210	Polymorphic microstructure of a MnCu damping alloy solidified under magnetic field. <i>Materials Research Express</i> , 2019 , 6, 0865h2	1.7	3

209	A novel non-enzymatic glucose electrochemical sensor based on CNF@Ni-Co layered double hydroxide modified glassy carbon electrode. <i>Microchemical Journal</i> , 2019 , 150, 104106	4.8	21
208	Thermal and numerical simulation of mould electromagnetic stirring of GCr15 bearing steel. <i>Materials Science and Technology</i> , 2019 , 35, 2173-2180	1.5	5
207	Effect of Thermoelectric Magnetic Convection on Shrinkage Porosity at the Final Stage of Solidification of GCr18Mo Steel Under Axial Static Magnetic Field. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 881-889	2.5	1
206	Enhanced strength-ductility synergy in ultrafine-grained eutectic high-entropy alloys by inheriting microstructural lamellae. <i>Nature Communications</i> , 2019 , 10, 489	17.4	251
205	Effect of TiB ₂ addition on grain orientation of porous Si ₃ N ₄ -TiB ₂ composites by magnetic field alignment technology. <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 1381-1389	2	
204	Solute trapping in Al-Cu alloys caused by a 29 Tesla super high static magnetic field. <i>Scientific Reports</i> , 2019 , 9, 266	4.9	10
203	Cold sprayed WC reinforced maraging steel 300 composites: Microstructure characterization and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 499-511	5.7	17
202	Microstructure and mechanical characterization of Si ₃ N ₄ /nickel-based superalloy joints with Ti/Au/Ni interlayers. <i>Journal of Adhesion Science and Technology</i> , 2019 , 33, 1858-1869	2	3
201	Improvement of tribological performance by micro-arc oxidation treatment on selective laser melting Ti6Al4V alloy. <i>Materials Research Express</i> , 2019 , 6, 096509	1.7	8
200	Evolution of microsegregation in directionally solidified AlCu alloys under steady magnetic field. <i>Journal of Alloys and Compounds</i> , 2019 , 800, 41-49	5.7	9
199	Influence of annealing treatment on microstructure and magnetic properties of cold sprayed Ni-coated FeSiAl soft magnetic composite coating. <i>Surface and Coatings Technology</i> , 2019 , 374, 476-484	4.4	14
198	Dual-effects of 6 T strong magnetic field on interdiffusion behavior of Fe-FeSi diffusion couple. <i>Materials Characterization</i> , 2019 , 151, 280-285	3.9	2
197	Effects of substrate heat accumulation on the cold sprayed Ni coating quality: Microstructure evolution and tribological performance. <i>Surface and Coatings Technology</i> , 2019 , 371, 185-193	4.4	6
196	A special single variant zone in directionally solidified Ni-Mn-Ga alloy. <i>Scripta Materialia</i> , 2019 , 167, 105-109	3.9	1
195	Strengthened Peening Effect on Metallurgical Bonding Formation in Cold Spray Additive Manufacturing. <i>Journal of Thermal Spray Technology</i> , 2019 , 28, 769-779	2.5	22
194	Effect of Co substitution and magnetic field on the morphologies and magnetic properties of CeO ₂ nanoparticles. <i>Ceramics International</i> , 2019 , 45, 11927-11933	5.1	5
193	Effect of a transverse weak magnetic field on the texture evolution and magnetic property of Fe-1.0 wt.% Si alloy during bulk solidification. <i>Materials Research Express</i> , 2019 , 6, 066105	1.7	1
192	Three dimensional dendritic morphology and orientation transition induced by high static magnetic field in directionally solidified Al-10 wt.%Zn alloy. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1587-1592	9.1	9

191	Effect of hot isostatic pressing (HIP) on microstructure and mechanical properties of Ti6Al4V alloy fabricated by cold spray additive manufacturing. <i>Additive Manufacturing</i> , 2019 , 27, 595-605	6.1	61
190	Microstructural and mechanical properties of high-performance Inconel 718 alloy by cold spraying. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 456-467	5.7	48
189	Revealing influence mechanism of a transverse static magnetic field on the refinement of primary dendrite spacing during directional solidification. <i>Journal of Crystal Growth</i> , 2019 , 517, 54-58	1.6	4
188	Effect of Heat Treatment Combined with an Alternating Magnetic Field on Microstructure and Mechanical Properties of a Ni-Based Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 1837-1850	2.3	5
187	Effect of an axial high static magnetic field on the crystal orientation and magnetic property of Fe-4.5 wt% Si alloy during bulk solidification. <i>Materials Letters</i> , 2019 , 247, 189-192	3.3	4
186	Influence of a static magnetic field on the distribution of solute Cu and interdendritic constitutional undercooling in directionally solidified Al-4.5wt.%Cu alloy. <i>Materials Letters</i> , 2019 , 248, 73-77	3.3	4
185	Giant refrigerant capacity in equi-atomic HoErGdCuNi amorphous ribbons. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 180-184	5.7	5
184	Effects of ZrB ₂ addition on texture development and properties of porous Si ₃ N ₄ -ZrB ₂ composites by magnetic field alignment. <i>Journal of Asian Ceramic Societies</i> , 2019 , 7, 368-376	2.4	
183	Investigation on microstructure and creep properties of nickel based single crystal superalloys PWA1483 during heat treatment under an alternating magnetic field. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 762, 138087	5.3	7
182	Enhanced high temperature elongation of nickel based single crystal superalloys by hot isostatic pressing. <i>Journal of Alloys and Compounds</i> , 2019 , 805, 78-83	5.7	10
181	Strong magnetic field-dual-assisted fabrication of heterogeneous sulfide-based hollow nanochain electrodes for high-rate supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19733-19744	13	15
180	Effect of steady magnetic field on undercooling of Al-Cu alloy melts. <i>Europhysics Letters</i> , 2019 , 126, 460016		2
179	Microstructure and Mechanical Properties of Ni-based Superalloy K418 Produced by the Continuous Unidirectional Solidification Process. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 6483-6491	1.6	7
178	Preparation of Al ₂ O ₃ Ceramic Cores by Dry-Pressing Assisted of Precursor-Derived Ceramic Technology. <i>Springer Proceedings in Physics</i> , 2019 , 1-8	0.2	
177	Explicit Dynamics Simulation of High-Speed Railway Bearing Based On ANSYS/LS-DYNA. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 612, 032011	0.4	
176	Effect of annealing treatment on the microstructure and mechanical properties of Fe-18Mn-0.8C-0.2 V TWIP steel. <i>Materials Research Express</i> , 2019 , 6, 1265h4	1.7	2
175	Influence of EMS on Asymmetric Flow with Different SEN Clogging Rates in a Slab Continuous Casting Mold. <i>Metals</i> , 2019 , 9, 1288	2.3	2
174	Enhanced Dendrite Coarsening and Microsegregation in AlCu Alloy under a Steady Magnetic Field. <i>Materials Transactions</i> , 2019 , 60, 1921-1927	1.3	1

173	Physical Modeling of Asymmetrical Flow in Slab Continuous Casting Mold due to Submerged Entry Nozzle Clogging with the Effect of Electromagnetic Stirring. <i>ISIJ International</i> , 2019 , 59, 2264-2271	1.7	10
172	Magnetic field-dependent microstructure evolution and magnetic property of Fe ₈₅ Si ₁₀ B alloy during solidification. <i>Journal of Materials Research</i> , 2019 , 34, 4076-4084	2.5	1
171	Columnar to Equiaxed Transition during Directionally Solidifying GCr18Mo Steel Affected by Thermoelectric Magnetic Force under an Axial Static Magnetic Field. <i>ISIJ International</i> , 2019 , 59, 60-68	1.7	5
170	Mechanical and in Vitro study of an isotropic Ti6Al4V lattice structure fabricated using selective laser melting. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 209-223	5.7	66
169	Formation Mechanism of Stray Grain of Nickel-Based Single-Crystal Superalloy Under a High Magnetic Field During Directional Solidification. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 27-31	2.5	1
168	Selective laser melting of WC reinforced maraging steel 300: Microstructure characterization and tribological performance. <i>Surface and Coatings Technology</i> , 2019 , 371, 355-365	4.4	21
167	Microstructure evolution and mechanical properties of maraging steel 300 fabricated by cold spraying. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 743, 482-493	5.3	19
166	Comparative investigation of microstructure and properties of Ni-coated FeSiAl soft magnetic composite coatings produced by cold spraying and HVOF. <i>Surface and Coatings Technology</i> , 2019 , 371, 224-234	4.4	14
165	Formation of novel microstructures in quenched Al Cu alloys in steady magnetic field. <i>Journal of Alloys and Compounds</i> , 2019 , 776, 353-356	5.7	3
164	Effect of silicone resin as precursor and binder on the properties of alumina-based ceramic cores using ball-shaped powders. <i>Ceramics International</i> , 2019 , 45, 2170-2177	5.1	6
163	Preparation of silica ceramic cores by the preceramic pyrolysis technology using silicone resin as precursor and binder. <i>Materials Chemistry and Physics</i> , 2019 , 223, 676-682	4.4	8
162	Evolution of the microstructure and solute distribution of Sn-10wt% Bi alloys during electromagnetic field-assisted directional solidification. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 568-577	9.1	6
161	Motion of Solid Grains During Magnetic Field-Assisted Directional Solidification. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 861-865	2.5	6
160	Correlation between microstructures and mechanical properties in Ni-rich NiMnGa high-temperature shape-memory alloys. <i>Materials Science and Technology</i> , 2018 , 34, 712-717	1.5	4
159	Metallization of polyether ether ketone (PEEK) by copper coating via cold spray. <i>Surface and Coatings Technology</i> , 2018 , 342, 209-219	4.4	37
158	Effect of the simultaneous application of a high static magnetic field and a low alternating current on grain structure and grain boundary of pure aluminum. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 2431-2438	9.1	11
157	A novel approach for fabricating Ni-coated FeSiAl soft magnetic composite via cold spraying. <i>Journal of Alloys and Compounds</i> , 2018 , 749, 523-533	5.7	19
156	Detwinning process of martensite in Ni ₅₈ Mn ₂₅ Ga ₁₇ as a high temperature shape memory alloy under uniaxial compression. <i>International Journal of Plasticity</i> , 2018 , 103, 203-213	7.6	12

155	Improvement in creep life of a nickel-based single-crystal superalloy via composition homogeneity on the multiscales by magnetic-field-assisted directional solidification. <i>Scientific Reports</i> , 2018 , 8, 1452	4.9	7
154	Preparation of c-axis textured TiB ₂ ceramics by a strong magnetic field of 6 T assisted slip-casting process. <i>Materials Letters</i> , 2018 , 217, 96-99	3.3	8
153	Fabrication of porous Al ₂ O ₃ -based ceramics using ball-shaped powders by preceramic polymer process in N ₂ atmosphere. <i>Ceramics International</i> , 2018 , 44, 5915-5920	5.1	5
152	Metamagnetic transition and magnetocaloric properties in antiferromagnetic Ho ₂ Ni ₂ Ga and Tm ₂ Ni ₂ Ga compounds. <i>Intermetallics</i> , 2018 , 94, 17-21	3.5	39
151	Structure and cryogenic magnetic properties in Ho ₂ BaCuO ₅ cuprate. <i>Ceramics International</i> , 2018 , 44, 1991-1994	5.1	47
150	Preferred Orientation of Porous Si ₃ N ₄ Ceramics by Gel-Casting in a Longitudinal Rotating Magnetic Field. <i>Crystal Research and Technology</i> , 2018 , 53, 1700147	1.3	3
149	Structure, glass-forming ability, magnetic and cryogenic magneto-caloric properties in the amorphous Ni ₃₀ Co ₁₀ RE ₆₀ (RE = Ho and Tm) ribbons. <i>Journal of Materials Science</i> , 2018 , 53, 9816-9822	4.3	25
148	Effect of high static magnetic field on the microstructure and mechanical properties of directionally solidified alloy 2024. <i>Journal of Alloys and Compounds</i> , 2018 , 749, 978-989	5.7	13
147	Orientation of Magnetized MnBi in a Strong Static Magnetic Field. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 1981-1985	2.3	5
146	Formation of highly porous NiCo ₂ S ₄ discs with enhanced pseudocapacitive properties through sequential ion-exchange. <i>Materials and Design</i> , 2018 , 145, 135-143	8.1	19
145	The mechanism of inclusion removal from molten steel by dissolved gas flotation. <i>Ironmaking and Steelmaking</i> , 2018 , 45, 648-654	1.3	10
144	Preparation of porous Al ₂ O ₃ ceramics with in situ formed C-nanowires derived from silicone resin. <i>Materials Letters</i> , 2018 , 212, 271-274	3.3	5
143	On the role of oxide film cleaning effect into the metallurgical bonding during cold spray. <i>Materials Letters</i> , 2018 , 210, 199-202	3.3	40
142	Correlation of microsegregation and variant distribution in directionally solidified Ni-Mn-Ga alloys. <i>Scripta Materialia</i> , 2018 , 156, 95-100	5.6	5
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140	Coupled 3D Numerical Model of Droplet Evolution Behaviors during the Magnetically Controlled Electroslag Remelting Process. <i>Jom</i> , 2018 , 70, 2917-2926	2.1	7
139	Influence of a transverse static magnetic field on the orientation and peritectic reaction of Cu-10.5 at.% Sn peritectic alloy. <i>Scientific Reports</i> , 2018 , 8, 10641	4.9	4
138	Evolution of microstructure and microsegregation in Ni-Mn-Ga alloys directionally solidified under axial magnetic field. <i>Journal of Alloys and Compounds</i> , 2018 , 758, 54-61	5.7	8

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128	Two Paradigms on Study Slab Continuous Casting Process with Mold Electromagnetic Stirring. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 424, 012035	0.4	
127	Fabrication of Co-based composites with in-situ formed ceramic grains by preceramic polymer technology assisted of SPS. <i>Composites Communications</i> , 2018 , 10, 217-220	6.7	
126	Reduced Wettability of Solids by a Liquid GaInSn Alloy in a Steady Magnetic Field. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27451-27455	3.8	6
125	Mechanism of Desulfurization from Liquid Iron by Hydrogen Plasma Arc Melting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 2951-2955	2.5	5
124	High Magnetic Field Processing of Metal Alloys. <i>Springer Series in Materials Science</i> , 2018 , 195-242	0.9	
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122	Double-shelled hollow hetero-MnCo ₂ S ₄ /CoS _{1.097} spheres with carbon coating for advanced supercapacitors. <i>Journal of Power Sources</i> , 2018 , 408, 65-73	8.9	43
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117	Droplet Evolution and Refinement During Liquid-Liquid Decomposition of Zn-6 Wt Pct Bi Immiscible Alloy Under High Static Magnetic Fields. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 3333-3345	2.3	5
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112	Deep deoxidization from liquid iron by hydrogen plasma arc melting. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 12153-12157	6.7	3
111	Enhanced undercooling of para- and diamagnetic metal melts in steady magnetic field. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 080301	1.4	6
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109	Magnetism and magnetocaloric effect in the RE ₂ CuSi ₃ (RE = Dy and Ho) compounds. <i>Journal of Alloys and Compounds</i> , 2017 , 702, 546-550	5.7	18
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