

Zhongming Ren

List of Publications by Year in descending order

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282
papers

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93792

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times ranked

3499
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#	ARTICLE	IF	CITATIONS
1	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> , 2022, 97, 113-122.	5.6	13
2	Revealing the Diversity of Dendritic Morphology Evolution During Solidification of Magnesium Alloys using Synchrotron X-ray Imaging: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 177-200.	1.5	5
3	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.	5.6	95
4	Application of Synchrotron X-Ray Imaging and Diffraction in Additive Manufacturing: A Review. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 25-48.	1.5	6
5	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> , 2022, 110, 117-127.	5.6	9
6	Electrodeposition-derived defect-rich heterogeneous trimetallic sulfide/hydroxide nanotubes/nanobelts for efficient electrocatalytic oxygen production. <i>Chemical Engineering Journal</i> , 2022, 430, 133073.	6.6	14
7	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> , 2022, 895, 162633.	2.8	5
8	Selective Laser Melting of Carbon-Free Mar-M509 Co-Based Superalloy: Microstructure, Micro-Cracks, and Mechanical Anisotropy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 501-516.	1.5	5
9	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.	0.9	4
10	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.	3.8	131
11	4D synchrotron X-ray tomographic study of the influence of transverse magnetic field on iron intermetallic compounds precipitation behavior during solidification of Al-Fe alloy. <i>Intermetallics</i> , 2022, 143, 107471.	1.8	12
12	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.	7.1	10
13	Magnetic properties and promising magnetocaloric performances in the antiferromagnetic GdFe ₂ Si ₂ compound. <i>Science China Materials</i> , 2022, 65, 1345-1352.	3.5	116
14	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.	2.6	6
15	Glide Mobility of a-Type Edge Dislocations in Aluminum Nitride by Molecular Dynamics Simulation. <i>ACS Omega</i> , 2022, 7, 2015-2022.	1.6	1
16	Enhanced mechanical properties of Ti6Al4V alloy fabricated by laser additive manufacturing under static magnetic field. <i>Materials Research Letters</i> , 2022, 10, 530-538.	4.1	31
17	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.	2.2	15
18	Strength-ductility synergy of CoCrNi medium-entropy alloy processed with laser powder bed fusion. <i>Materials and Design</i> , 2022, 219, 110774.	3.3	18

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19	Evolution of microstructure and mechanical property of Ti-47Al-2Cr-2Nb intermetallic alloy by laser direct energy deposition: From a single-track, thin-wall to bulk. <i>Materials Characterization</i> , 2022, 190, 112053.	1.9	6
20	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.	5.6	26
21	Effect of β 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.	5.6	7
22	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.	5.6	14
23	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.	5.6	4
24	Structure, magnetic properties and cryogenic magneto-caloric effect (MCE) in RE ₂ FeAlO ₆ (RE = Gd, Dy). <i>TJ ETQq0 0.0 rgBT / Overlock 10</i>	2.3	105
25	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.	1.0	1
26	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.	5.6	37
27	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.	1.0	0
28	Precipitation Behavior of Nitride Inclusions in K418 Alloy under the Continuous Unidirectional Solidification Process. <i>ISIJ International</i> , 2021, 61, 229-238.	0.6	4
29	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.	1.1	3
30	Preparation, mechanical, and leaching properties of CaZrO ₃ ceramic cores. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 1490-1497.	1.1	8
31	Application of Heat Absorption Method to Improve Quality of Large Steel Ingot. <i>ISIJ International</i> , 2021, 61, 865-870.	0.6	6
32	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.	0.6	9
33	Cryogenic magnetic properties and magnetocaloric effects (MCE) in B-site disordered RE ₂ CuMnO ₆ (RE = Gd, Dy). <i>TJ ETQq1 1.0,784314 rgBT / Overlock 31</i>	2.3	31
34	Influences of mullite fibers on mechanical and thermal properties of silica-based ceramic cores. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 2284-2292.	1.1	2
35	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.	3.5	62
36	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.	5.6	48

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37	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.	2.6	10
38	In-situ nitrogen strengthening of selective laser melted Ti6Al4V with superior mechanical performance. <i>Additive Manufacturing</i> , 2021, 46, 102142.	1.7	6
39	Effect of annealing treatment on microstructure and mechanical properties of cold sprayed TiB ₂ /AlSi10Mg composites. <i>Surfaces and Interfaces</i> , 2021, 26, 101341.	1.5	5
40	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.	5.6	18
41	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.	2.0	4
42	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.	0.7	40
43	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.	2.6	10
44	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.	1.0	7
45	The influence of a magnet field on sulfur removal from liquid iron by hydrogen plasma arc melting. <i>Modern Physics Letters B</i> , 2021, 35, .	1.0	1
46	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.	1.1	0
47	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.	1.0	9
48	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.	2.0	15
49	Microstructure and bending strength improvement of alumina-based ceramic cores by liquid silicone resin infiltration. <i>Materials Chemistry and Physics</i> , 2020, 239, 122041.	2.0	9
50	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.	5.6	17
51	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.	3.8	158
52	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.	2.8	50
53	Electrocatalytic Oxidation and Sensitive Determination of Paracetamol Based on Nanosheets Self-assembled Lindgrenite Microflowers. <i>Electroanalysis</i> , 2020, 32, 978-985.	1.5	12
54	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.	2.0	14

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55	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.	1.1	11
56	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.	3.0	9
57	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.	2.6	57
58	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.	3.8	20
59	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.	2.6	87
60	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.	1.3	6
61	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.	1.6	9
62	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.	1.1	4
63	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.	1.0	5
64	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.	2.6	20
65	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.	2.8	16
66	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.	1.1	7
67	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.	1.1	3
68	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.	2.8	4
69	Tribological properties of Al/diamond composites produced by cold spray additive manufacturing. <i>Additive Manufacturing</i> , 2020, 36, 101434.	1.7	12
70	Magnetic properties, magnetocaloric effect and refrigeration performance in RE ₆₀ Al ₂₀ Ni ₂₀ (RE = Er and Ho) amorphous ribbons. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	12
71	Suppression of $\hat{\Gamma}^3$ phase and its effect on mechanical behavior of melt-spun and annealed Ni-Mn-Ga high-temperature shape memory alloys. <i>Materials Today Communications</i> , 2020, 24, 101165.	0.9	0
72	Table-like shape magnetocaloric effect and large refrigerant capacity in dual-phase HoNi ₂ composite*. <i>Chinese Physics B</i> , 2020, 29, 107502.	0.7	7

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73	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.	0.6	18
74	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.	1.0	0
75	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.	2.6	14
76	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.	2.8	18
77	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.	5.2	24
78	Effect of steady magnetic field on undercooling of Al-Cu alloy melts. <i>Europhysics Letters</i> , 2019, 126, 46001.	0.7	4
79	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.	1.2	10
80	Steel/Slag Interface Behavior under Multifunction Electromagnetic Driving in a Continuous Casting Slab Mold. <i>Metals</i> , 2019, 9, 983.	1.0	12
81	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.	1.0	11
82	Polymorphic microstructure of a MnCu damping alloy solidified under magnetic field. <i>Materials Research Express</i> , 2019, 6, 0865h2.	0.8	8
83	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.	2.3	36
84	Thermal and numerical simulation of mould electromagnetic stirring of GCr15 bearing steel. <i>Materials Science and Technology</i> , 2019, 35, 2173-2180.	0.8	7
85	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.	1.0	3
86	Enhanced strength-ductility synergy in ultrafine-grained eutectic high-entropy alloys by inheriting microstructural lamellae. <i>Nature Communications</i> , 2019, 10, 489.	5.8	505
87	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.	1.1	0
88	Solute trapping in Al-Cu alloys caused by a 29 Tesla super high static magnetic field. <i>Scientific Reports</i> , 2019, 9, 266.	1.6	11
89	Cold sprayed WC reinforced maraging steel 300 composites: Microstructure characterization and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019, 785, 499-511.	2.8	23
90	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.	1.4	4

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91	Improvement of tribological performance by micro-arc oxidation treatment on selective laser melting Ti6Al4V alloy. <i>Materials Research Express</i> , 2019, 6, 096509.	0.8	17
92	Evolution of microsegregation in directionally solidified Al-Cu alloys under steady magnetic field. <i>Journal of Alloys and Compounds</i> , 2019, 800, 41-49.	2.8	16
93	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.	2.2	20
94	Dual-effects of 6T strong magnetic field on interdiffusion behavior of Fe-FeSi diffusion couple. <i>Materials Characterization</i> , 2019, 151, 280-285.	1.9	3
95	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.	2.2	7
96	A special single variant zone in directionally solidified Ni-Mn-Ga alloy. <i>Scripta Materialia</i> , 2019, 167, 105-109.	2.6	1
97	Strengthened Peening Effect on Metallurgical Bonding Formation in Cold Spray Additive Manufacturing. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 769-779.	1.6	32
98	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.	2.3	7
99	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.	0.8	2
100	Three dimensional dendritic morphology and orientation transition induced by high static magnetic field in directionally solidified Al-10wt.%Zn alloy. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1587-1592.	5.6	18
101	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.	1.7	82
102	Microstructural and mechanical properties of high-performance Inconel 718 alloy by cold spraying. <i>Journal of Alloys and Compounds</i> , 2019, 792, 456-467.	2.8	75
103	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.	0.7	8
104	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.	1.1	6
105	Effect of an axial high static magnetic field on the crystal orientation and magnetic property of Fe-4.5wt% Si alloy during bulk solidification. <i>Materials Letters</i> , 2019, 247, 189-192.	1.3	7
106	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.	1.3	6
107	Giant refrigerant capacity in equi-atomic HoErGdCuNi amorphous ribbons. <i>Journal of Alloys and Compounds</i> , 2019, 792, 180-184.	2.8	8
108	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.	0.1	0

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109	Explicit Dynamics Simulation of High-Speed Railway Bearing Based On ANSYS/LS-DYNA. IOP Conference Series: Materials Science and Engineering, 2019, 612, 032011.	0.3	1
110	Effect of annealing treatment on the microstructure and mechanical properties of Fe-18Mn-0.8C-0.2 V TWIP steel. Materials Research Express, 2019, 6, 1265h4.	0.8	2
111	Influence of EMS on Asymmetric Flow with Different SEN Clogging Rates in a Slab Continuous Casting Mold. Metals, 2019, 9, 1288.	1.0	7
112	Enhanced Dendrite Coarsening and Microsegregation in Al-Cu Alloy under a Steady Magnetic Field. Materials Transactions, 2019, 60, 1921-1927.	0.4	6
113	Physical Modeling of Asymmetrical Flow in Slab Continuous Casting Mold due to Submerged Entry Nozzle Clogging with the Effect of Electromagnetic Stirring. ISIJ International, 2019, 59, 2264-2271.	0.6	20
114	Magnetic field-dependent microstructure evolution and magnetic property of Fe-6.5 Si-0.05 B alloy during solidification. Journal of Materials Research, 2019, 34, 4076-4084.	1.2	3
115	Columnar to Equiaxed Transition during Directionally Solidifying GCr18Mo Steel Affected by Thermoelectric Magnetic Force under an Axial Static Magnetic Field. ISIJ International, 2019, 59, 60-68.	0.6	8
116	Mechanical and in-vitro study of an isotropic Ti6Al4V lattice structure fabricated using selective laser melting. Journal of Alloys and Compounds, 2019, 782, 209-223.	2.8	112
117	Formation Mechanism of Stray Grain of Nickel-Based Single-Crystal Superalloy Under a High Magnetic Field During Directional Solidification. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 27-31.	1.0	2
118	Selective laser melting of WC reinforced maraging steel 300: Microstructure characterization and tribological performance. Surface and Coatings Technology, 2019, 371, 355-365.	2.2	44
119	Microstructure evolution and mechanical properties of maraging steel 300 fabricated by cold spraying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 482-493.	2.6	29
120	Manganese Removal from Liquid Nickel by Hydrogen Plasma Arc Melting. Materials, 2019, 12, 33.	1.3	7
121	Comparative investigation of microstructure and properties of Ni-coated FeSiAl soft magnetic composite coatings produced by cold spraying and HVOF. Surface and Coatings Technology, 2019, 371, 224-234.	2.2	15
122	Formation of novel microstructures in quenched Al Cu alloys in steady magnetic field. Journal of Alloys and Compounds, 2019, 776, 353-356.	2.8	3
123	Effect of silicone resin as precursor and binder on the properties of alumina-based ceramic cores using ball-shaped powders. Ceramics International, 2019, 45, 2170-2177.	2.3	12
124	Preparation of silica ceramic cores by the preceramic pyrolysis technology using silicone resin as precursor and binder. Materials Chemistry and Physics, 2019, 223, 676-682.	2.0	11
125	Evolution of the microstructure and solute distribution of Sn-10wt% Bi alloys during electromagnetic field-assisted directional solidification. Journal of Materials Science and Technology, 2019, 35, 568-577.	5.6	17
126	Motion of Solid Grains During Magnetic Field-Assisted Directional Solidification. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 861-865.	1.0	9

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127	Correlation between microstructures and mechanical properties in Ni-rich Ni ₄₀ Mn ₄₀ Ga high-temperature shape-memory alloys. <i>Materials Science and Technology</i> , 2018, 34, 712-717.	0.8	5
128	Metallization of polyether ether ketone (PEEK) by copper coating via cold spray. <i>Surface and Coatings Technology</i> , 2018, 342, 209-219.	2.2	59
129	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.	5.6	18
130	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.	2.8	23
131	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.	4.1	18
132	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.	1.6	13
133	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.	1.3	11
134	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.	2.3	8
135	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.	1.8	46
136	Structure and cryogenic magnetic properties in Ho ₂ BaCuO ₅ cuprate. <i>Ceramics International</i> , 2018, 44, 1991-1994.	2.3	58
137	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.	0.6	3
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282	Molecular Dynamics Simulations of the Thermally and Stress-Activated Glide of a $\{11\bar{1}\dots00\}$ Screw Dislocation in AlN. <i>Crystal Growth and Design</i> , 0, , .	1.4	1