Zhong-Ming Ren

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Revealing the Diversity of Dendritic Morphology Evolution During Solidification of Magnesium Alloys using Synchrotron X-ray Imaging: A Review. Acta Metallurgica Sinica (English Letters), 2022, 35, 177-200.	2.9	5
2	Application of Synchrotron X-Ray Imaging and Diffraction in Additive Manufacturing: A Review. Acta Metallurgica Sinica (English Letters), 2022, 35, 25-48.	2.9	6
3	Microstructure and mechanical properties of directionally solidified Al-rich Ni3Al-based alloy under static magnetic field. Journal of Materials Science and Technology, 2022, 110, 117-127.	10.7	9
4	Selective Laser Melting of Carbon-Free Mar-M509 Co-Based Superalloy: Microstructure, Micro-Cracks, and Mechanical Anisotropy. Acta Metallurgica Sinica (English Letters), 2022, 35, 501-516.	2.9	5
5	Strong Magnetic-Field-Engineered Porous Template for Fabricating Hierarchical Porous Ni–Co–Zn–P Nanoplate Arrays as Battery-Type Electrodes of Advanced All-Solid-State Supercapacitors. ACS Applied Materials & Interfaces, 2022, 14, 2782-2793.	8.0	21
6	Evolution mechanism of recrystallization in a nickel-based single crystal superalloy under various cooling rates during heat treatment. China Foundry, 2022, 19, 27.	1.4	2
7	Magnetic properties and promising magnetocaloric performances in the antiferromagnetic GdFe2Si2 compound. Science China Materials, 2022, 65, 1345-1352.	6.3	116
8	Application of heat absorption method to reduce macrosegregation during solidification of bearing steel ingot. Journal of Iron and Steel Research International, 2022, 29, 1915-1926.	2.8	6
9	Glide Mobility of a-Type Edge Dislocations in Aluminum Nitride by Molecular Dynamics Simulation. ACS Omega, 2022, 7, 2015-2022.	3.5	1
10	Enhanced mechanical properties of Ti6Al4V alloy fabricated by laser additive manufacturing under static magnetic field. Materials Research Letters, 2022, 10, 530-538.	8.7	31
11	Effect of Spheroidizing Annealing in Combination with Alternating Magnetic Field on Microstructure and Mechanical Properties of GCr15 Bearing Steel. ISIJ International, 2022, 62, 1275-1282.	1.4	2
12	Nondestructive effect of the cusp magnetic field on the dendritic microstructure during the directional solidification of Nickel-based single crystal superalloy. Journal of Materials Science and Technology, 2021, 62, 52-59.	10.7	14
13	Effect of sintering aids on microstructure and properties of textured SiC ceramics prepared in 6 T. Journal of Asian Ceramic Societies, 2021, 9, 85-95.	2.3	1
14	Evolution Mechanism of Microporosity of Nickel-Based Single-Crystal Superalloy During Solution Heat Treatment Under an Alternating Magnetic Field. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 30-35.	2.1	0
15	Precipitation Behavior of Nitride Inclusions in K418 Alloy under the Continuous Unidirectional Solidification Process. ISIJ International, 2021, 61, 229-238.	1.4	4
16	Microstructural Evolution and Solute Migration in the Mushy Zone of Peritectic Al-18 At. Pct Ni Alloy in High Magnetic Fields. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 726-740.	2.2	3
17	Preparation, mechanical, and leaching properties of CaZrO ₃ ceramic cores. International Journal of Applied Ceramic Technology, 2021, 18, 1490-1497.	2.1	8
18	Application of Heat Absorption Method to Improve Quality of Large Steel Ingot. ISIJ International, 2021, 61, 865-870.	1.4	6

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19	Influences of mullite fibers on mechanical and thermal properties of silicaâ€based ceramic cores. International Journal of Applied Ceramic Technology, 2021, 18, 2284-2292.	2.1	2
20	First- and second-order phase transitions in RE6Co2Ga (RE = Ho, Dy or Gd) cryogenic magnetocaloric materials. Science China Materials, 2021, 64, 2846-2857.	6.3	62
21	Revealing the influence of high magnetic field on the solute distribution during directional solidification of Al-Cu alloy. Journal of Materials Science and Technology, 2021, 88, 226-232.	10.7	18
22	The influence of a magnet field on sulfur removal from liquid iron by hydrogen plasma arc melting. Modern Physics Letters B, 2021, 35, .	1.9	1
23	Effects of axial static magnetic field on columnar to equiaxed transition in directionally solidified low carbon steel. Ironmaking and Steelmaking, 2020, 47, 398-404.	2.1	0
24	Effect of final electromagnetic stirring on solidification microstructure of GCr15 bearing steel in simulated continuous casting. Journal of Iron and Steel Research International, 2020, 27, 141-147.	2.8	17
25	Reduction in Microsegregation in Al–Cu Alloy by Alternating Magnetic Field. Acta Metallurgica Sinica (English Letters), 2020, 33, 267-274.	2.9	5
26	Electrocatalytic Oxidation and Sensitive Determination of Paracetamol Based on Nanosheets Selfâ€assembled Lindgrenite Microflowers. Electroanalysis, 2020, 32, 978-985.	2.9	12
27	Influence of yttrium oxide addition and sintering temperature on properties of aluminaâ€based ceramic cores. International Journal of Applied Ceramic Technology, 2020, 17, 685-694.	2.1	11
28	Effect of Static Magnetic Field on the Evolution of Residual Stress and Microstructure of Laser Remelted Inconel 718 Superalloy. Journal of Thermal Spray Technology, 2020, 29, 1410-1423.	3.1	9
29	Enhanced Degradation in Grain Refinement of Inoculated 2024 Al Alloy in Steady Magnetic field. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4584-4591.	2.2	4
30	Magnetic field-assisted solvothermal synthesis and the magnetic properties of Fe-doped CeO2 nanoparticles. Journal of Asian Ceramic Societies, 2020, 8, 615-623.	2.3	5
31	Magnetic-Field-Induced Liquid–Solid Interface Transformation and Its Effect on Microsegregation in Directionally Solidified Ni-Cr Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4592-4601.	2.2	3
32	Magnetic properties, magnetocaloric effect and refrigeration performance in <i>RE</i> 60Al20Ni20 (<i>RE</i> = Tm, Er and Ho) amorphous ribbons. Journal of Applied Physics, 2020, 127, .	2.5	12
33	Effects of ZrB ₂ addition on texture development and properties of porous Si ₃ N ₄ -ZrB ₂ composites by magnetic field alignment. Journal of Asian Ceramic Societies, 2019, 7, 368-376.	2.3	0
34	Strong magnetic field-dual-assisted fabrication of heterogeneous sulfide-based hollow nanochain electrodes for high-rate supercapacitors. Journal of Materials Chemistry A, 2019, 7, 19733-19744.	10.3	24
35	Effect of steady magnetic field on undercooling of Al-Cu alloy melts. Europhysics Letters, 2019, 126, 46001.	2.0	4
36	Microstructure and Mechanical Properties of Ni-based Superalloy K418 Produced by the Continuous Unidirectional Solidification Process. Journal of Materials Engineering and Performance, 2019, 28, 6483-6491.	2.5	10

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37	Steel/Slag Interface Behavior under Multifunction Electromagnetic Driving in a Continuous Casting Slab Mold. Metals, 2019, 9, 983.	2.3	12
38	Evolutions of the Micro- and Macrostructure and Tensile Property of Cu-15Ni-8Sn Alloy During Electromagnetic Stirring-Assisted Horizontal Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2111-2120.	2.1	11
39	Study on the modification of inclusions by Ca treatment in GCr18Mo bearing steel. Advances in Manufacturing, 2019, 7, 438-447.	6.1	17
40	Thermal and numerical simulation of mould electromagnetic stirring of GCr15 bearing steel. Materials Science and Technology, 2019, 35, 2173-2180.	1.6	7
41	Effect of Thermoelectric Magnetic Convection on Shrinkage Porosity at the Final Stage of Solidification of GCr18Mo Steel Under Axial Static Magnetic Field. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 881-889.	2.1	3
42	Enhanced strength–ductility synergy in ultrafine-grained eutectic high-entropy alloys by inheriting microstructural lamellae. Nature Communications, 2019, 10, 489.	12.8	505
43	Effect of TiB 2 addition on grain orientation of porous Si 3 N 4 â€TiB 2 composites by magnetic field alignment technology. International Journal of Applied Ceramic Technology, 2019, 16, 1381-1389.	2.1	0
44	Solute trapping in Al-Cu alloys caused by a 29 Tesla super high static magnetic field. Scientific Reports, 2019, 9, 266.	3.3	11
45	Microstructure and mechanical characterization of Si ₃ N ₄ /nickel-based superalloy joints with Ti/Au/Ni interlayers. Journal of Adhesion Science and Technology, 2019, 33, 1858-1869.	2.6	4
46	Evolution of microsegregation in directionally solidified Al–Cu alloys under steady magnetic field. Journal of Alloys and Compounds, 2019, 800, 41-49.	5.5	16
47	Strengthened Peening Effect on Metallurgical Bonding Formation in Cold Spray Additive Manufacturing. Journal of Thermal Spray Technology, 2019, 28, 769-779.	3.1	32
48	Effect of Heat Treatment Combined with an Alternating Magnetic Field on Microstructure and Mechanical Properties of a Ni-Based Superalloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 1837-1850.	2.2	6
49	Preparation of Al2O3 Ceramic Cores by Dry-Pressing Assisted of Precursor-Derived Ceramic Technology. Springer Proceedings in Physics, 2019, , 1-8.	0.2	0
50	Enhanced Dendrite Coarsening and Microsegregation in Al–Cu Alloy under a Steady Magnetic Field. Materials Transactions, 2019, 60, 1921-1927.	1.2	6
51	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.	2.6	3
52	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.	1.4	8
53	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.	2.1	2
54	Manganese Removal from Liquid Nickel by Hydrogen Plasma Arc Melting. Materials, 2019, 12, 33.	2.9	7

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55	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.	4.0	11
56	Grain Refinement During Directionally Solidifying GCr18Mo Steel at Low Pulling Speeds Under an Axial Static Magnetic Field. Acta Metallurgica Sinica (English Letters), 2018, 31, 681-691.	2.9	15
57	Effects of directional solidification parameters and crystal selector on microstructure of single crystal of Ni-base superalloys. Journal of Central South University, 2018, 25, 1-8.	3.0	8
58	Improvement in creep life of a nickel-based single-crystal superalloy via composition homogeneity on the multiscales by magnetic-field-assisted directional solidification. Scientific Reports, 2018, 8, 1452.	3.3	13
59	Preparation of c-axis textured TiB2 ceramics by a strong magnetic field of 6â€⁻T assisted slip-casting process. Materials Letters, 2018, 217, 96-99.	2.6	11
60	Fabrication of porous Al2O3-based ceramics using ball-shaped powders by preceramic polymer process in N2 atmosphere. Ceramics International, 2018, 44, 5915-5920.	4.8	8
61	Preferred Orientation of Porous Si ₃ N ₄ Ceramics by Gel asting in a Longitudinal Rotating Magnetic Field. Crystal Research and Technology, 2018, 53, 1700147.	1.3	3
62	Structure, glass-forming ability, magnetic and cryogenic magneto-caloric properties in the amorphous Ni30Co10RE60 (RE = Ho and Tm) ribbons. Journal of Materials Science, 2018, 53, 9816-9822	3.7	27
63	Effect of high static magnetic field on the microstructure and mechanical properties of directionally solidified alloy 2024. Journal of Alloys and Compounds, 2018, 749, 978-989.	5.5	17
64	The mechanism of inclusion removal from molten steel by dissolved gas flotation. Ironmaking and Steelmaking, 2018, 45, 648-654.	2.1	14
65	Preparation of porous Al2O3 ceramics with in situ formed C-nanowires derived form silicone resin. Materials Letters, 2018, 212, 271-274.	2.6	7
66	Fabrication of Co-based composites with in-situ formed ceramic grains by preceramic polymer technology assisted of SPS. Composites Communications, 2018, 10, 217-220.	6.3	0
67	Reduced Wettability of Solids by a Liquid Ga–In–Sn Alloy in a Steady Magnetic Field. Journal of Physical Chemistry C, 2018, 122, 27451-27455.	3.1	13
68	Mechanism of Desulfurization from Liquid Iron by Hydrogen Plasma Arc Melting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2951-2955.	2.1	10
69	Microsegregation Formation in Al–Cu Alloy under Action of Steady Magnetic Field. ISIJ International, 2018, 58, 899-904.	1.4	7
70	Effect of a High Magnetic Field on γ′ Phase for Ni-Based Single Crystal Superalloy During Directional Solidification. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1919-1924.	2.1	3
71	Modification of the Primary and Peritectic Phases in Directionally Solidified Cu-20 wt.% Sn Alloy by Magnetic Field. ISIJ International, 2018, 58, 505-514.	1.4	4
72	Deep deoxidization from liquid iron by hydrogen plasma arc melting. International Journal of Hydrogen Energy, 2018, 43, 12153-12157.	7.1	6

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73	Enhanced undercooling of para- and diamagnetic metal melts in steady magnetic field. Japanese Journal of Applied Physics, 2018, 57, 080301.	1.5	8
74	Evolution of microstructure and microsegregation in Ni-Mn-Ga alloys directionally solidified under axial magnetic field. Journal of Alloys and Compounds, 2018, 758, 54-61.	5.5	13
75	Cell-to-Dendrite Transition Induced by a Static Transverse Magnetic Field During Lasering Remelting of the Nickel-Based Superalloy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3211-3219.	2.1	3
76	The Effect of Static Magnetic Field on the Channel Formation during Directional Solidification of Aqueous Ammonium Chloride Solution. Crystal Research and Technology, 2018, 53, 1800113.	1.3	1
77	An Electromagnetic Compounding Technique for Counteracting the Thermoelectric Magnetic Effect During Directional Solidification Under a Transverse Static Magnetic Field. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3373-3382.	2.2	10
78	Influence of Compaction Pressure on the Properties of Silica Ceramic Cores. , 2018, , 515-521.		0
79	Effect of a high magnetic field on the microstructure in directionally solidified two-phase Ni3Al alloys. Materials Letters, 2017, 189, 131-135.	2.6	6
80	Effect of Current Frequency on Droplet Evolution During Magnetic-Field-Controlled Electroslag Remelting Process Via Visualization Method. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 655-663.	2.1	23
81	Effects of a High Magnetic Field on the Microstructure of Ni-Based Single-Crystal Superalloys During Directional Solidification. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3804-3813.	2.2	10
82	Effect of a magnetic field on macro segregation of the primary silicon phase in hypereutectic Al-Si alloy during directional solidification. Journal of Alloys and Compounds, 2017, 722, 108-115.	5.5	31
83	Enhanced diffusivity in Ni-Al system by alternating magnetic field. Applied Physics Letters, 2017, 110, .	3.3	13
84	Measurement of contact angles at room temperature in high magnetic field. Review of Scientific Instruments, 2017, 88, 115110.	1.3	9
85	Columnar-to-Equiaxed Transition and Equiaxed Grain Alignment in Directionally Solidified Ni3Al Alloy Under an Axial Magnetic Field. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4193-4203.	2.2	18
86	Effect of Primary Dendrite Orientation on Stray Grain Formation in Cross-Section Change Region During the Directional Solidification of Ni-Based Superalloy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 394-405.	2.1	12
87	On the texture, phase and tensile properties of commercially pure Ti produced via selective laser melting assisted by static magnetic field. Materials Science and Engineering C, 2017, 70, 405-407.	7.3	53
88	Alternating-magnetic-field induced enhancement of diffusivity in Ni-Cr alloys. Scientific Reports, 2017, 7, 18085.	3.3	15
89	Synthesis of cerium oxalate hydrate by precipitation technique under external magnetic field. Rare Metals, 2017, , 1.	7.1	1
90	Influence of an Axial Magnetic Field on Microstructures and Alignment in Directionally Solidified Ni-based Superalloy. ISIJ International, 2017, 57, 337-342.	1.4	14

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91	Experimental and Numerical Investigations of the Multi-scale Thermoelectromagnetic Convection on the Microstructure during Directionally Solidified Sn-5wt%Pb Alloys. ISIJ International, 2017, 57, 833-840.	1.4	9
92	Effect of β-Si ₃ N ₄ Initial Powder Size on Texture Development of Porous Si3N4 Ceramics Prepared by Gel-Casting in a Magnetic Field. Transactions of the Indian Ceramic Society, 2016, 75, 256-262.	1.0	5
93	Excellent magnetocaloric properties in RE2Cu2Cd (RE = Dy and Tm) compounds and its composite materials. Scientific Reports, 2016, 6, 34192.	3.3	65
94	Effect of a Transverse Magnetic Field on Stray Grain Formation of Ni-Based Single Crystal Superalloy During Directional Solidification. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 3231-3236.	2.1	6
95	Effect of a weak transverse magnetic field on the microstructure in directionally solidified peritectic alloys. Scientific Reports, 2016, 6, 37872.	3.3	8
96	Fabrication and Characterization of Porous Alumina-Based Ceramics Using Silicone Resin as Binder. Transactions of the Indian Ceramic Society, 2016, 75, 40-46.	1.0	10
97	Interfacial microstructure of partial transient liquid phase bonding of Si 3 N 4 to nickel-base superalloy using Ti/Au/Ni interlayers. Vacuum, 2016, 130, 105-108.	3.5	18
98	Microstructure evolution and room temperature fracture toughness of directionally solidified NiAl–31Cr3Mo–0.2Si near-eutectic alloy at different withdrawal rates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 678, 243-251.	5.6	6
99	A Method of Stray Grain Suppression for Single-Crystal Superalloy During Seed Melt-Back. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5691-5697.	2.2	3
100	Effect of interdendritic thermoelectric magnetic convection on evolution of tertiary dendrite during directional solidification. Journal of Crystal Growth, 2016, 439, 66-73.	1.5	12
101	Interfacial microstructure and mechanical characterization of silicon nitride/nickel-base superalloy joints by partial transient liquid phase bonding. Ceramics International, 2016, 42, 1633-1639.	4.8	24
102	Preparation of c-axis textured SiC ceramics by a strong magnetic field of 6 T assisted gel-casting process. Ceramics International, 2016, 42, 6168-6177.	4.8	10
103	Interfacial microstructure and high-temperature strength in silicon nitride/nickel-based superalloy bonding. Journal of Adhesion Science and Technology, 2016, 30, 1430-1440.	2.6	6
104	Study on the liquid metal flow field in FC-mold of slab continuous casting. Advances in Manufacturing, 2015, 3, 212-220.	6.1	5
105	Development and application of an apparatus for high-temperature measurement of magnetic susceptibility. Review of Scientific Instruments, 2015, 86, 065105.	1.3	0
106	Effect of seed particles content on texture formation of Si3N4 ceramics by gel-casting in a strong magnetic field. Advances in Manufacturing, 2015, 3, 193-201.	6.1	4
107	Facile Synthesis of Element‣ubstituted Hydroxyapatite Whiskers Using αâ€Tricalcium Phosphate as Precursors. International Journal of Applied Ceramic Technology, 2015, 12, 1000-1007.	2.1	4
108	Preparation of textured porous Al ₂ O ₃ ceramics by slip casting in a strong magnetic field and its mechanical properties. Crystal Research and Technology, 2015, 50, 645-653.	1.3	27

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109	High-magnetic-field-induced formation of aligned equiaxed grains during directional solidification. Philosophical Magazine Letters, 2015, 95, 425-432.	1.2	1
110	Magnetic-field dependence of nucleation undercoolings in non-magnetic metallic melts. Philosophical Magazine Letters, 2015, 95, 37-43.	1.2	16
111	Effect of a high axial magnetic field on the structure of directionally solidified Al–Si alloys. Journal of Materials Research, 2015, 30, 1043-1055.	2.6	7
112	Reaction diffusion in Ni–Al diffusion couples in steady magnetic fields. Journal of Alloys and Compounds, 2015, 641, 7-13.	5.5	34
113	Effect of a high magnetic field on the morphology of the primary dendrite in directionally solidified Pb-25 at% Bi peritectic alloy. Materials Letters, 2015, 160, 366-370.	2.6	7
114	Effect of a high magnetic field on microstructures of Ni-based superalloy during directional solidification. Journal of Alloys and Compounds, 2015, 620, 10-17.	5.5	30
115	High magnetic field induction of the formation of twinned dendrites during directional solidification of Al–4.5wt%Cu alloy. Philosophical Magazine Letters, 2014, 94, 118-126.	1.2	3
116	Microstructure and mechanical properties of partial transient liquid phase bonded Si3N4–DZ483 superalloy joints. Materials Letters, 2014, 121, 223-226.	2.6	18
117	Fabrication of textured Si3N4 ceramics with \hat{l}^2 -Si3N4 powders as raw material by gel-casting under strong magnetic field. Materials Letters, 2014, 135, 218-221.	2.6	17
118	Effect of Multi-Scale Thermoelectric Magnetic Convection on Solidification Microstructure in Directionally Solidified Al-Si Alloys Under a Transverse Magnetic Field. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 5584-5600.	2.2	31
119	Surface tensions of non-polar liquids in high magnetic fields. Journal of Molecular Liquids, 2013, 181, 51-54.	4.9	13
120	Effect of high magnetic field on diffusion behavior of aluminum in Ni–Al alloy. Materials Letters, 2013, 108, 340-342.	2.6	24
121	The effect of magnetic field on precipitation phases of single-crystal nickel-base superalloy during directional solidification. Materials Letters, 2013, 100, 223-226.	2.6	26
122	Faceted growth of primary Al2Cu crystals during directional solidification in high magnetic field. Journal of Applied Physics, 2013, 114, .	2.5	5
123	Modification of liquid/solid interface shape in directionally solidifying Al–Cu alloys by a transverse magnetic field. Journal of Materials Science, 2013, 48, 213-219.	3.7	27
124	Effect of strong magnetic field on solid solubility and microsegregation during directional solidification of Al–Cu alloy. Journal of Materials Research, 2013, 28, 2810-2818.	2.6	10
125	Effect of thermoelectric magnetic force on the array of dendrites during directional solidification of Al–Cu alloys in a high magnetic field. Philosophical Magazine Letters, 2012, 92, 675-682.	1.2	9
126	Application of ring method to measure surface tensions of liquids in high magnetic field. Review of Scientific Instruments, 2012, 83, 043906.	1.3	15

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127	Dendrite fragmentation and columnar-to-equiaxed transition during directional solidification at lower growth speed under a strong magnetic field. Acta Materialia, 2012, 60, 3321-3332.	7.9	82
128	Fabrication and Properties of Porous Alumina-based Ceramic Core. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2012, 27, 239-244.	1.3	7
129	Effects of Thermoelectric Magnetic Convection on the Solidification Structure During Directional Solidification under Lower Transverse Magnetic Field. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3459-3471.	2.2	16
130	Structure and magnetic properties of MnZn nanoferrites synthesized under a high magnetic field. Journal of Applied Physics, 2011, 110, .	2.5	19
131	Columnar-to-equiaxed transitions in al-based alloys during directional solidification under a high magnetic field. Journal of Crystal Growth, 2010, 312, 267-272.	1.5	40
132	Application of differential thermal analysis to investigation of magnetic field effect on solidification of Al–Cu hypereutectic alloy. Journal of Alloys and Compounds, 2010, 505, 108-112.	5.5	26
133	Effect of a high magnetic field on the morphological instability and irregularity of the interface of a binary alloy during directional solidification. Acta Materialia, 2009, 57, 1689-1701.	7.9	32
134	Investigation of thermoelectric magnetic convection and its effect on solidification structure during directional solidification under a low axial magnetic field. Acta Materialia, 2009, 57, 2180-2197.	7.9	90
135	Synthesis and room-temperature ferromagnetic properties of single-crystalline Co-doped SnO2 nanocrystals via a high magnetic field. Journal of Alloys and Compounds, 2009, 481, 837-840.	5.5	24
136	Effect of high magnetic field on the primary dendrite arm spacing and segregation of directionally solidified superalloy DZ417G. Journal of Alloys and Compounds, 2009, 487, 612-617.	5.5	42
137	Refining Mechanism of Pure Aluminum under Local Electromagnetic Vibration. ISIJ International, 2009, 49, 1150-1155.	1.4	0
138	Magnetic-field-assisted solvothermal growth of single-crystalline bismuth nanowires. Nanotechnology, 2008, 19, 115602.	2.6	48
139	STRUCTURE AND MAGNETIC PROPERTIES OF NANOCRYSTALLINE MnZn FERRITES BY A PHASE TRANSFORMATION METHOD. International Journal of Modern Physics B, 2008, 22, 3433-3438.	2.0	0
140	Structural, optical, and magnetic properties of Fe-doped In ₂ O ₃ nanocubes. Journal of Materials Research, 2008, 23, 2597-2601.	2.6	9
141	Effects of a high-gradient magnetic field on the migratory behavior of primary crystal silicon in hypereutectic Al–Si alloy. Science and Technology of Advanced Materials, 2008, 9, 024202.	6.1	25
142	Magnetic anisotropy and spin disorder in textured MnBi crystals synthesized by a field-inducing approach at a high temperature. Journal of Applied Physics, 2008, 104, 043901.	2.5	7
143	Tuning the crystal structure and magnetic properties of Fe doped In2O3 nanocrystals. Applied Physics Letters, 2007, 91, .	3.3	31
144	Progress in Research on Solidification in a Strong Static Magnetic Field. Steel Research International, 2007, 78, 373-378.	1.8	2

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145	Influence of an axial high magnetic field on the liquid–solid transformation in Al–Cu hypoeutectic alloys and on the microstructure of the solid. Acta Materialia, 2007, 55, 1377-1386.	7.9	63
146	Influence of thermoelectric effects on the solid–liquid interface shape and cellular morphology in the mushy zone during the directional solidification of Al–Cu alloys under a magnetic field. Acta Materialia, 2007, 55, 3803-3813.	7.9	148
147	Influence of a high magnetic field on columnar dendrite growth during directional solidification. Acta Materialia, 2007, 55, 5333-5347.	7.9	36
148	Solidification structures of Bi-Mn alloys under a high magnetic field. Journal of Shanghai University, 2006, 10, 74-77.	0.1	2
149	Microstructure, crystallization, and magnetization behaviors inMnBiâ^'Bicomposites aligned by applied magnetic field. Physical Review B, 2005, 72, .	3.2	35
150	Study on meniscus temperature fluctuation during mold oscillation in continuous casting by modeling experiments. Journal of Shanghai University, 2002, 6, 236-239.	0.1	1
151	Theoretical model for particle behavior at solidifying front in electromagnetic force field. Journal of Shanghai University, 2000, 4, 246-249.	0.1	1
152	Improvement of the structure and the electromagnetic characteristics of an induction ladle furnace. Journal of Shanghai University, 1999, 3, 153-156.	0.1	0
153	Effect of distribution of magnetic flux density on purifying liquid metal by travelling magnetic field. Journal of Shanghai University, 1999, 3, 157-161.	0.1	2
154	Molecular Dynamics Simulations of the Thermally and Stress-Activated Glide of a ⟠0001⟩{11Ì00} Screw Dislocation in AlN. Crystal Growth and Design, 0, , .	3.0	1