Minggang Zhu

List of Publications by Year
in descending order

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54	794	516710 16	580821 25
papers	citations	h-index	g-index

54	54	54	316
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superior corrosion resistance and corrosion mechanism of dual-main-phase (Ce15Nd85)30FebalB1M magnets in different solutions. Journal of Rare Earths, 2023, 41, 122-129.	4.8	6
2	Grains orientation and restructure mechanism of Ce-contained magnets processed by reduction diffusion. Journal of Alloys and Compounds, 2022, 891, 161921.	5.5	7
3	Novel design of self-compensated thermally stable Ce magnets without critical elements. Materials and Design, 2022, 216, 110590.	7.0	9
4	Cellular microstructure modification and high temperature performance enhancement for Sm2Co17-based magnets with different Zr contents. Journal of Materials Science and Technology, 2022, 120, 8-14.	10.7	10
5	High frequency properties of 2D Sm2Fe14B nanoflakes with bianisotropy. Journal of Magnetism and Magnetic Materials, 2021, 529, 167859.	2.3	3
6	Effects of grain boundary ternary alloy doping on corrosion resistance of (Ce,Pr,Nd)-Fe-B permanent magnets. Journal of Rare Earths, 2021, 39, 979-985.	4.8	10
7	Modulation on the magnetic and electrical properties of Fe3O4 thin films through strain relaxation. Journal of Magnetism and Magnetic Materials, 2021, 536, 168128.	2.3	3
8	Correlation between anisotropic fractal dimension of fracture surface and coercivity for Nd-Fe-B permanent magnets. Journal of Materials Research and Technology, 2021, 15, 745-753.	5.8	13
9	A unique pathway of PtNi nanoparticle formation observed with liquid cell transmission electron microscopy. Nanoscale, 2020, 12, 1414-1418.	5.6	7
10	Optimization of both coercivity and knee-point magnetic field of Sm2Co17-type magnets via solid solution process. Journal of Rare Earths, 2020, 38, 1224-1230.	4.8	23
11	Abnormal corrosion behavior of dual-main phase sintered (Ce,Nd)-Fe-B magnets in different sodium solutions. Journal of Rare Earths, 2020, 38, 735-741.	4.8	3
12	Coercivity enhancement of nanocrystalline hot-deformed Nd-Fe-B magnets by low-melting eutectic MM-Cu (MM=La, Ce, Pr, Nd) alloys addition. Journal of Rare Earths, 2020, 38, 594-599.	4.8	10
13	Mechanism of the enhanced coercivity for the dual-main-phase Ceâ€“Feâ€“B magnet. Scientific Reports, 2020, 10, 17975.	3.3	7
14	Microstructure characteristics and optimization of 2:17-type Sm-Co sintered magnets with different iron content. Journal of Magnetism and Magnetic Materials, 2020, 514, 167288.	2.3	9
15	Novel PrNd-Lean Ce-Based Râ„‚eâ‚ê„B Permanent Magnets With High Performance. IEEE Transactions on Magnetics, 2020, 56, 1-5.	2.1	3
16	Dependence of macromagnetic properties on the microstructure in high-performance Sm2Co17-type permanent magnets. Journal of Magnetism and Magnetic Materials, 2020, 510, 166942.	2.3	7
17	Magnetic Properties and Microstructures of Sintered Sm₂Co₁₇ Alloys With High Knee-Point Coercivity H _k. IEEE Transactions on Magnetics, 2020, 56, 1-5.	2.1	3
18	Optimization of microstructures and magnetic properties of Sm(CobalFe0.227Cu0.07Zr0.023)7.6 magnets by sintering treatment. Journal of Rare Earths, 2019, 37, 171-177.	4.8	18

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19	Effects of hot pressing temperature on the alignment and phase composition of hot-deformed nanocrystalline Nd-Fe-B magnets. Journal of Magnetism and Magnetic Materials, 2019, 488, 165353.	2.3	9
20	The technology and mechanism of coercivity promotion of Ce-rich dual-main-phase sintered magnets. Journal of Magnetism and Magnetic Materials, 2019, 490, 165414.	2.3	21
21	Dependence of magnetic properties on microstructure and composition of Ce-Fe-B sintered magnets. Journal of Rare Earths, 2019, 37, 865-870.	4.8	10
22	Micromagnetic simulations on demagnetization processes in anisotropic Nd2Fe14B magnets. Journal of Rare Earths, 2019, 37, 628-632.	4.8	5
23	Origins of inhomogeneous microstructure of hot-deformed nanocrystalline cylindrical Nd-Fe-B magnets and its effects on magnetization behaviors. Journal of Alloys and Compounds, 2019, 792, 519-528.	5.5	6
24	Micromagnetic simulations of reversal magnetization in cerium-containing magnets. Chinese Physics B, 2019, 28, 037502.	1.4	5
25	Mechanical and Magnetic Properties of Hot-Deformed Nd-Fe-B Magnets Doped with SiC Whiskers. Jom, 2019, 71, 3107-3112.	1.9	0
26	High temperature properties improvement and microstructure regulation of Sm2Co17-based permanent magnet. AIP Advances, 2019, 9, 125237.	1.3	4
27	Phase structure of Al doped Ce-rich alloys and its effect on magnetic properties of sintered Ce-Fe-B magnets. Journal of Alloys and Compounds, 2019, 782, 723-728.	5.5	13
28	Anisotropic corrosion behavior of sintered (Ce0.15Nd0.85)30FebalB permanent magnets. Journal of Rare Earths, 2019, 37, 287-291.	4.8	8
29	Effects of diffusing DyZn film on magnetic properties and thermal stability of sintered NdFeB magnets. Journal of Magnetism and Magnetic Materials, 2018, 454, 215-220.	2.3	38
30	The corrosion mechanism of the sintered (Ce, Nd)-Fe-B magnets prepared by double main phase and single main phase approaches. AIP Advances, 2018, 8, 056224.	1.3	4
31	Effect of magnetic layer thickness on magnetic properties of Ce-Fe-B thin films. Journal of Rare Earths, 2018, 36, 619-622.	4.8	2
32	Effect of deformation ratios on grain alignment and magnetic properties of hot pressing/hot deformation Nd-Fe-B magnets. AIP Advances, 2018, 8, 056234.	1.3	4
33	Effect of grain alignment distribution on magnetic properties in (MM, Nd)â€“Feâ€“B sintered magnets. Journal Physics D: Applied Physics, 2018, 51, 125001.	2.8	3
34	Intrinsic evolution of novel (Nd, MM)2Fe14B-system magnetic flakes. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	3
35	Coercivity temperature dependence of Sm2Co17-type sintered magnets with different cell and cell boundary microchemistry. Journal of Magnetism and Magnetic Materials, 2018, 452, 272-277.	2.3	24
36	Local profile dependence of coercivity in (MM0.3Nd0.7)-Fe-B sintered magnets. Journal of Magnetism and Magnetic Materials, 2018, 449, 390-394.	2.3	9

#	Article	IF	Citations
37	The microstructure and magnetization reversal behavior of melt-spun (Nd 1â^'x Ce x)-Fe-B ribbons. Journal of Rare Earths, 2018, 36, 95-98.	4.8	15
38	Growth mechanism of coreâ€“shell PtNiâ€“Ni nanoparticles using in situ transmission electron microscopy. Nanoscale, 2018, 10, 11281-11286.	5.6	15
39	Crystalline and magnetic microstructures of iron-rich Sm(Co0.65Fe0.26Cu0.07Zr0.02)7.8 sintered magnets: Isothermal aging effect. Journal of Magnetism and Magnetic Materials, 2018, 465, 569-577.	2.3	33
40	Effect of cerium on the corrosion behaviour of sintered (Nd,Ce)FeB magnet. Journal of Magnetism and Magnetic Materials, 2017, 432, 181-189.	2.3	24
41	The microstructure and magnetic characteristics of Sm(CobalFe0.1Cu0.09Zr0.03)7.24 high temperature permanent magnets. Scripta Materialia, 2017, 132, 44-48.	5.2	57
42	Microstructural Analysis During the Step-Cooling Annealing of Iron-Rich Sm(Co0.65Fe0.26Cu0.07Zr0.02)7.8 Anisotropic Sintered Magnets. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	11
43	Revealing on metallurgical behavior of iron-rich Sm(Co0.65Fe0.26Cu0.07Zr0.02)7.8 sintered magnets. AIP Advances, 2017, 7, .	1.3	27
44	Structure and intrinsic magnetic properties of MM2Fe14B (MM=La, Ce, Pr, Nd) alloys. Journal of Rare Earths, 2016, 34, 614-617.	4.8	22
45	The coercivity mechanism of sintered SM(CobalFe0.245Cu0.07Zr0.02)7.8 permanent magnets with different isothermal annealing time. Physica B: Condensed Matter, 2015, 476, 154-157.	2.7	16
46	Microstructure and Magnetic Properties of High Coercivity Die-Upset Ndâ€“Feâ€“B Magnets by Ndâ€“Cu Alloy Addition. IEEE Transactions on Magnetics, 2015, 51, 1-3.	2.1	5
47	The microstructure and magnetic properties of melt-spun CeFeB ribbons with varying Ce content. Electronic Materials Letters, 2015, 11, 109-112.	2.2	34
48	An Enhanced Coercivity for (CeNdPr)â€“Feâ€“B Sintered Magnet Prepared by Structure Design. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	23
49	Magnetic properties and microstructures of high-performance Sm 2 Co 17 based alloy. Journal of Magnetism and Magnetic Materials, 2015, 378, 214-216.	2.3	33
50	Influence of Ce Content on the Rectangularity of Demagnetization Curves and Magnetic Properties of Re-Fe-B Magnets Sintered by Double Main Phase Alloy Method. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	92
51	Quasi-periodic layer structure of die-upset NdFeB magnets. Journal of Rare Earths, 2013, 31, 679-684.	4.8	48
52	Fractal study for the fractured surface of Nd-Fe-B permanent magnets. Journal of Applied Physics, 2011, 109, 07A706.	2.5	5
53	Effect of Sm-rich liquid phase on magnetic properties and microstructures of sintered 2:17-type Sm-Co magnet. Journal of Rare Earths, 2011, 29, 934-938.	4.8	11
54	Effect of Microstructure on the Corrosion Resistance of Nd-Fe-B Permanent Magnets. Journal of Magnetics, 2011, 16, 304-307.	0.4	4