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	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
2	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
3	Quasi-periodic layer structure of die-upset NdFeB magnets. Journal of Rare Earths, 2013, 31, 679-684.	4.8	48
4	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
5	The microstructure and magnetic properties of melt-spun CeFeB ribbons with varying Ce content. Electronic Materials Letters, 2015, 11, 109-112.	2.2	34
6	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
7	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
8	Revealing on metallurgical behavior of iron-rich Sm(Co0.65Fe0.26Cu0.07Zr0.02)7.8 sintered magnets. AIP Advances, 2017, 7, .	1.3	27
9	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
10	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
11	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
12	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
13	Structure and intrinsic magnetic properties of MM2Fe14B (MM=La, Ce, Pr, Nd) alloys. Journal of Rare Earths, 2016, 34, 614-617.	4.8	22
14	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
15	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
16	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
17	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
18	Growth mechanism of coreâ€“shell PtNiâ€“Ni nanoparticles using in situ transmission electron microscopy. Nanoscale, 2018, 10, 11281-11286.	5.6	15

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	Novel design of self-compensated thermally stable Ce magnets without critical elements. Materials and Design, 2022, 216, 110590.	7.0	9
31	Anisotropic corrosion behavior of sintered (Ce0.15Nd0.85)30FebalB permanent magnets. Journal of Rare Earths, 2019, 37, 287-291.	4.8	8
32	A unique pathway of PtNi nanoparticle formation observed with liquid cell transmission electron microscopy. Nanoscale, 2020, 12, 1414-1418.	5.6	7
33	Mechanism of the enhanced coercivity for the dual-main-phase Ceâ€“Feâ€“B magnet. Scientific Reports, 2020, 10, 17975.	3.3	7
34	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
35	Grains orientation and restructure mechanism of Ce-contained magnets processed by reduction diffusion. Journal of Alloys and Compounds, 2022, 891, 161921.	5.5	7
36	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

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37	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
38	Fractal study for the fractured surface of Nd-Fe-B permanent magnets. Journal of Applied Physics, 2011, 109, 07A706.	2.5	5
39	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
40	Micromagnetic simulations on demagnetization processes in anisotropic Nd2Fe14B magnets. Journal of Rare Earths, 2019, 37, 628-632.	4.8	5
41	Micromagnetic simulations of reversal magnetization in cerium-containing magnets. Chinese Physics B, 2019, 28, 037502.	1.4	5
42	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
43	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
44	High temperature properties improvement and microstructure regulation of Sm2Co17-based permanent magnet. AIP Advances, 2019, 9, 125237.	1.3	4
45	Effect of Microstructure on the Corrosion Resistance of Nd-Fe-B Permanent Magnets. Journal of Magnetics, 2011, 16, 304-307.	0.4	4
46	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
47	Intrinsic evolution of novel (Nd, MM)2Fe14B-system magnetic flakes. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	3
48	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
49	Novel PrNd-Lean Ce-Based Râ„Feâ„ê„B Permanent Magnets With High Performance. IEEE Transactions on Magnetics, 2020, 56, 1-5.	2.1	3
50	High frequency properties of 2D Sm2Fe14B nanoflakes with bianisotropy. Journal of Magnetism and Magnetic Materials, 2021, 529, 167859.	2.3	3
51	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
52	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
53	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
54	Mechanical and Magnetic Properties of Hot-Deformed Nd-Fe-B Magnets Doped with SiC Whiskers. Jom, 2019, 71, 3107-3112.	1.9	0