

Ming-Gang Zhu

List of Publications by Year in descending order

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54
papers

828
citations

516710

16
h-index

552781

26
g-index

54
all docs

54
docs citations

54
times ranked

269
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion behavior of dual-main-phased (Nd _{0.8} Ce _{0.2}) ₂ Fe ₁₄ B magnets with and without annealing process. <i>Rare Metals</i> , 2023, 42, 585-590.	7.1	3
2	Superior corrosion resistance and corrosion mechanism of dual-main-phase (Ce ₁₅ Nd ₈₅) ₃₀ Fe ₇₀ B ₁ M magnets in different solutions. <i>Journal of Rare Earths</i> , 2023, 41, 122-129.	4.8	6
3	Relation between microstructure and magnetic properties of shock wave-compressed Nd-Fe-B magnets. <i>Rare Metals</i> , 2022, 41, 2353-2356.	7.1	8
4	Microstructures and coercivity mechanism of 2:17-type Sm-Co magnets with high remanence. <i>Rare Metals</i> , 2022, 41, 1353-1356.	7.1	7
5	Microstructures and magnetic properties of Sm(Co _{0.245} Fe _{0.245} Cu _{0.07} Zr _{0.02}) _{7.8} sintered magnet solution-treated at high temperature. <i>Rare Metals</i> , 2022, 41, 4230-4234.	7.1	7
6	Grains orientation and restructure mechanism of Ce-contained magnets processed by reduction diffusion. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161921.	5.5	7
7	Cellular microstructure modification and high temperature performance enhancement for Sm ₂ Co ₁₇ -based magnets with different Zr contents. <i>Journal of Materials Science and Technology</i> , 2022, 120, 8-14.	10.7	10
8	Overview of composition and technique process study on 2:17-type Sm-Co high-temperature permanent magnet. <i>Rare Metals</i> , 2021, 40, 790-798.	7.1	16
9	Identification of optimal solid solution temperature for Sm ₂ Co ₁₇ -type permanent magnets with different Fe contents. <i>Rare Metals</i> , 2021, 40, 3567-3574.	7.1	9
10	Effects of grain boundary ternary alloy doping on corrosion resistance of (Ce,Pr,Nd)-Fe-B permanent magnets. <i>Journal of Rare Earths</i> , 2021, 39, 979-985.	4.8	10
11	Correlation between anisotropic fractal dimension of fracture surface and coercivity for Nd-Fe-B permanent magnets. <i>Journal of Materials Research and Technology</i> , 2021, 15, 745-753.	5.8	13
12	Rotation behavior of individual magnetic moment with uniaxial magnetocrystalline anisotropy in magnetic field. <i>Physica B: Condensed Matter</i> , 2021, , 413500.	2.7	2
13	Spontaneous Formation of Skyrmion Structure in a Hard Magnetic Film with Low Coercivity. <i>Materials Letters</i> , 2021, 308, 131135.	2.6	1
14	Development of Ce-based sintered magnets: review and prospect. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 1-11.	2.8	18
15	Numerical simulation of single roller melt spinning for NdFeB alloy based on finite element method. <i>Rare Metals</i> , 2020, 39, 1145-1150.	7.1	9
16	Phase composition and magnetic properties of Pr-Nd-Mn-Fe-B nanocrystalline magnets prepared by spark plasma sintering. <i>Rare Metals</i> , 2020, 39, 36-40.	7.1	9
17	Optimization of both coercivity and knee-point magnetic field of Sm ₂ Co ₁₇ -type magnets via solid solution process. <i>Journal of Rare Earths</i> , 2020, 38, 1224-1230.	4.8	23
18	Abnormal corrosion behavior of dual-main phase sintered (Ce,Nd)-Fe-B magnets in different sodium solutions. <i>Journal of Rare Earths</i> , 2020, 38, 735-741.	4.8	3

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19	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
20	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
21	Dependence of macromagnetic properties on the microstructure in high-performance Sm ₂ Co ₁₇ -type permanent magnets. Journal of Magnetism and Magnetic Materials, 2020, 510, 166942.	2.3	7
22	Optimization of microstructures and magnetic properties of Sm(Co _{0.227} Fe _{0.227} Cu _{0.07} Zr _{0.023}) _{7.6} magnets by sintering treatment. Journal of Rare Earths, 2019, 37, 171-177.	4.8	18
23	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
24	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
25	High temperature properties improvement and microstructure regulation of Sm ₂ Co ₁₇ -based permanent magnet. AIP Advances, 2019, 9, 125237.	1.3	4
26	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
27	Anisotropic corrosion behavior of sintered (Ce _{0.15} Nd _{0.85}) ₃₀ Fe ₁₄ B permanent magnets. Journal of Rare Earths, 2019, 37, 287-291.	4.8	8
28	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
29	Effect of grain alignment distribution on magnetic properties in (MM, Nd) ₂ Fe ₁₄ B sintered magnets. Journal Physics D: Applied Physics, 2018, 51, 125001.	2.8	3
30	Intrinsic evolution of novel (Nd, MM) ₂ Fe ₁₄ B-system magnetic flakes. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	3
31	Coercivity temperature dependence of Sm ₂ Co ₁₇ -type sintered magnets with different cell and cell boundary microchemistry. Journal of Magnetism and Magnetic Materials, 2018, 452, 272-277.	2.3	24
32	The microstructure and magnetization reversal behavior of melt-spun (Nd _{1-x} Ce _x)-Fe-B ribbons. Journal of Rare Earths, 2018, 36, 95-98.	4.8	15
33	Effect of the Ce Content on the Magnetic Properties and Microstructure of CeCo ₅ -based Sintered Bulk Magnets. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1761-1765.	1.8	2
34	Crystalline and magnetic microstructures of iron-rich Sm(Co _{0.65} Fe _{0.26} Cu _{0.07} Zr _{0.02}) _{7.8} sintered magnets: Isothermal aging effect. Journal of Magnetism and Magnetic Materials, 2018, 465, 569-577.	2.3	33
35	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
36	The microstructure and magnetic characteristics of Sm(Co _{0.1} Fe _{0.1} Cu _{0.09} Zr _{0.03}) _{7.24} high temperature permanent magnets. Scripta Materialia, 2017, 132, 44-48.	5.2	57

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37	Microstructural Analysis During the Step-Cooling Annealing of Iron-Rich Sm(Co _{0.65} Fe _{0.26} Cu _{0.07} Zr _{0.02}) _{7.8} Anisotropic Sintered Magnets. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	11
38	Revealing on metallurgical behavior of iron-rich Sm(Co _{0.65} Fe _{0.26} Cu _{0.07} Zr _{0.02}) _{7.8} sintered magnets. AIP Advances, 2017, 7, .	1.3	27
39	Structure and intrinsic magnetic properties of MM ₂ Fe ₁₄ B (MM=La, Ce, Pr, Nd) alloys. Journal of Rare Earths, 2016, 34, 614-617.	4.8	22
40	The coercivity mechanism of sintered SM(Co _{0.65} Fe _{0.26} Cu _{0.07} Zr _{0.02}) _{7.8} permanent magnets with different isothermal annealing time. Physica B: Condensed Matter, 2015, 476, 154-157.	2.7	16
41	Optimal design of sintered Ce ₉ Nd ₂₁ Fe ₁₄ B ₁ magnets with a low-melting-point (Ce,Nd)-rich phase. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 417-422.	4.9	25
42	The microstructure and magnetic properties of melt-spun CeFeB ribbons with varying Ce content. Electronic Materials Letters, 2015, 11, 109-112.	2.2	34
43	An Enhanced Coercivity for (CeNdPr)-Fe-B Sintered Magnet Prepared by Structure Design. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	23
44	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
45	Microstructure and magnetic properties of sintered CeCo _{4.325} ~x Cu _{0.675} Fe _x magnets. Rare Metals, 2015, 34, 164-167.	7.1	2
46	Investigation of chemical composition and crystal structure in sintered Ce ₁₅ Nd ₁₅ Fe ₁₄ B ₁ magnet. AIP Advances, 2014, 4, 107127.	1.3	24
47	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
48	Relationship between controllable preparation and microstructure of NdFeB sintered magnets. Journal of Rare Earths, 2014, 32, 628-632.	4.8	16
49	Effects of Sm content on thermal stability of Sm ₂ Co ₁₇ sintered magnets. Journal of the Korean Physical Society, 2013, 63, 784-786.	0.7	4
50	The Impact Induced Demagnetization Mechanism in NdFeB Permanent Magnets. Chinese Physics Letters, 2013, 30, 097501.	3.3	13
51	Microstructures and magnetic properties of Ce _{32.15} Co _{49.36} Cu _{9.84} Fe _{9.65} magnet sintered at different temperatures. Rare Metals, 2012, 31, 470-473.	7.1	8
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	Study on Preferred Orientation in Nd-Fe-B Cast Strip. Journal of Iron and Steel Research International, 2006, 13, 119-121.	2.8	2