

Jiaying Jin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effects of REFe ₂ on microstructure and magnetic properties of Nd-Ce-Fe-B sintered magnets. <i>Acta Materialia</i> , 2017, 128, 22-30.	7.9	144
2	Chemically Inhomogeneous RE-Fe-B Permanent Magnets with High Figure of Merit: Solution to Global Rare Earth Criticality. <i>Scientific Reports</i> , 2016, 6, 32200.	3.3	106
3	Improved thermal stability of Nd-Ce-Fe-B sintered magnets by Y substitution. <i>Scripta Materialia</i> , 2017, 131, 11-14.	5.2	77
4	Coercivity enhancement of NdFeB sintered magnets by low melting point Dy _{32.5} Fe ₆₂ Cu _{5.5} alloy modification. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 355, 131-135.	2.3	69
5	Attaining high magnetic performance in as-sintered multi-main-phase Nd-La-Ce-Fe-B magnets: Toward skipping the post-sinter annealing treatment. <i>Acta Materialia</i> , 2019, 169, 248-259.	7.9	66
6	Manipulating Ce Valence in RE ₂ Fe ₁₄ B Tetragonal Compounds by La-Ce Co-doping: Resultant Crystallographic and Magnetic Anomaly. <i>Scientific Reports</i> , 2016, 6, 30194.	3.3	65
7	Post-sinter annealing influences on coercivity of multi-main-phase Nd-Ce-Fe-B magnets. <i>Acta Materialia</i> , 2018, 146, 97-105.	7.9	58
8	Rapid coercivity increment of Nd-Fe-B sintered magnets by Dy ₆₉ Ni ₃₁ grain boundary restructuring. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 370, 76-80.	2.3	55
9	Evolution of REFe ₂ (RE=rare earth) phase in Nd-Ce-Fe-B magnets and resultant Ce segregation. <i>Scripta Materialia</i> , 2019, 170, 150-155.	5.2	47
10	Enhanced coercivity of Nd-Ce-Fe-B sintered magnets by adding (Nd, Pr)-H powders. <i>Journal of Alloys and Compounds</i> , 2017, 721, 1-7.	5.5	45
11	Grain boundary engineering towards high-figure-of-merit Nd-Ce-Fe-B sintered magnets: Synergetic effects of (Nd, Pr) _{Hx} and Cu co-dopants. <i>Acta Materialia</i> , 2021, 204, 116529.	7.9	44
12	Influences of element segregation on the magnetic properties in nanocrystalline Nd-Ce-Fe-B alloys. <i>Materials Characterization</i> , 2019, 148, 208-213.	4.4	38
13	Coercivity enhancement of Nd-Fe-B sintered magnets with intergranular adding (Pr, Dy, Cu) _{Hx} powders. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 399, 159-163.	2.3	37
14	Mechanical Properties of La-Ce-Substituted Nd-Fe-B Magnets. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	2.1	33
15	Coercivity enhancement for Nd-La-Ce-Fe-B sintered magnets by tailoring La and Ce distributions. <i>Journal of Alloys and Compounds</i> , 2018, 763, 854-860.	5.5	26
16	Balancing the microstructure and chemical heterogeneity of multi-main-phase Nd-Ce-La-Fe-B sintered magnets by tailoring the liquid-phase-sintering. <i>Materials and Design</i> , 2020, 186, 108308.	7.0	25
17	Grain boundary restructuring and La/Ce/Y application in Nd-Fe-B magnets*. <i>Chinese Physics B</i> , 2019, 28, 077507.	1.4	24
18	PrAl and PrDyAl diffusion into Nd-La-Ce-Fe-B sintered magnets: Critical role of surface microstructure in the magnetic performance. <i>Applied Surface Science</i> , 2020, 529, 147028.	6.1	24

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19	Effects of (Nd, Pr)-Hx addition on the coercivity of Nd-Ce-Y-Fe-B sintered magnet. <i>Journal of Alloys and Compounds</i> , 2019, 772, 656-662.	5.5	23
20	Crucial role of the REFe ₂ intergranular phase on corrosion resistance of Nd-La-Ce-Fe-B sintered magnets. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2225-2235.	5.5	21
21	A reliable route for relieving the constraints of multi-main-phase Nd-La-Ce-Fe-B sintered magnets at high La-Ce substitution: (Pr, Nd)H grain boundary diffusion. <i>Scripta Materialia</i> , 2020, 185, 122-128.	5.2	21
22	Magnetic properties and corrosion resistance of Nd-Fe-B magnets with Nd ₆₄ Co ₃₆ intergranular addition. <i>Journal of Alloys and Compounds</i> , 2014, 616, 345-349.	5.5	20
23	Concurrent improvements of corrosion resistance and coercivity in Nd-Ce-Fe-B sintered magnets through engineering the intergranular phase. <i>Journal of Materials Science and Technology</i> , 2022, 110, 239-245.	10.7	18
24	Merits of Pr ₈₀ Ga ₂₀ grain boundary diffusion process towards high coercivity-remanence synergy of Nd-La-Ce-Fe-B sintered magnet. <i>Acta Materialia</i> , 2022, 231, 117873.	7.9	18
25	Improved corrosion resistance of low rare-earth Nd-Fe-B sintered magnets by Nd ₆ Co ₁₃ Cu grain boundary restructuring. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 379, 186-191.	2.3	17
26	Towards peculiar corrosion behavior of multi-main-phase Nd-Ce-Y-Fe-B permanent material with heterogeneous microstructure. <i>Corrosion Science</i> , 2020, 177, 108972.	6.6	15
27	Synergistic effect of V ₂ O ₅ and Bi ₂ O ₃ on the grain boundary structure of high-frequency NiCuZn ferrite ceramics. <i>Journal of Advanced Ceramics</i> , 2022, 11, 912-921.	17.4	14
28	Comparison of (Pr, Nd)H grain boundary restructuring and diffusion on the magnetic properties of Nd-La-Ce-Fe-B sintered magnet. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159154.	5.5	13
29	Unusual surface microstructural evolution of Nd-La-Ce-Fe-B sintered magnets by (Nd, Pr)Hx grain boundary diffusion. <i>Materials Characterization</i> , 2022, 190, 112073.	4.4	12
30	High-performance Nd-Fe-B sintered magnets via co-doping high-melting-point Zr and low-melting-point Dy _{71.5} Fe _{28.5} . <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 487, 165356.	2.3	10
31	Promoting the La solution in 2:14:1-type compound: Resultant chemical deviation and microstructural nanoheterogeneity. <i>Journal of Materials Science and Technology</i> , 2021, 62, 195-202.	10.7	10
32	Microstructure and magnetic performance of Nd-Y-Ce-Fe-B sintered magnets after annealing. <i>Rare Metals</i> , 2022, 41, 859-864.	7.1	10
33	Structural, electron transportation and magnetic behavior transition of metastable FeAlO granular films. <i>Scientific Reports</i> , 2016, 6, 24410.	3.3	9
34	Nd-Fe-B sintered magnets with low rare earth content fabricated via Dy _{71.5} Fe _{28.5} grain boundary restructuring. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166162.	2.3	8
35	Effects of (Nd, Pr)H Intergranular Addition on the Mechanical Properties of Nd-Pr-Ce-Fe-B Sintered Magnets. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	2.1	6
36	High synergy of coercivity and thermal stability in resource-saving Nd-Ce-Y-Fe-B melt-spun ribbons. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160731.	5.5	4

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37	Novel hydrogen decrepitation behaviors of (La, Ce)-Fe-B strips. <i>AIP Advances</i> , 2018, 8, 056233.	1.3	3
38	Exchange interaction and demagnetization process of high-abundance rare-earth magnets sintered using dual alloy method. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, 1.	5.1	3
39	Microstructure and electromagnetic performance of the FeCoAlON films tuned by N ₂ pressure during reactive pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , 2018, 739, 866-872.	5.5	2