

Hossein Sepehri Amin

List of Publications by Year in descending order

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140
papers

6,480
citations

71061

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docs citations

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times ranked

2161
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high temperature flexure and strain driven amorphization in polycrystalline boron carbide bulks. <i>Scripta Materialia</i> , 2022, 210, 114487.	2.6	3
2	Most Frequently Asked Questions about the Coercivity of Nd-Fe-B Permanent Magnets. <i>Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2022, 69, S38-S51.	0.1	1
3	Recent Advances in SmFe ₁₂ -based Permanent Magnets. <i>Funtai Oyobi Fummtsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2022, 69, S74-S83.	0.1	0
4	Effect of microstructure on the electrical conductivity of p-type FeAlSi thermoelectric materials. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163835.	2.8	5
5	Coercivity engineering in Sm(Fe _{0.8} Co _{0.2}) ₁₂ B _{0.5} thin films by Si grain boundary diffusion. <i>Acta Materialia</i> , 2022, 227, 117716.	3.8	15
6	Transmission electron microscopy image based micromagnetic simulations for optimizing nanostructure of FePt-X heat-assisted magnetic recording media. <i>Acta Materialia</i> , 2022, 227, 117744.	3.8	16
7	(Nd,La,Ce)-Fe-B hot-deformed magnets for application of variable-magnetic-force motors. <i>Acta Materialia</i> , 2022, 228, 117747.	3.8	10
8	Development of Co-lean (Sm,Y)(Fe,Co,Ti) ₁₂ compounds with large saturation magnetization. <i>Applied Physics Express</i> , 2022, 15, 045505.	1.1	4
9	Magnetic refrigeration material operating at a full temperature range required for hydrogen liquefaction. <i>Nature Communications</i> , 2022, 13, 1817.	5.8	64
10	Peculiar behavior of V on the Curie temperature and anisotropy field of SmFe ₁₂ -xV _x compounds. <i>Acta Materialia</i> , 2022, 232, 117928.	3.8	10
11	Magnetization Reversals of Nd-Fe-B-Based Magnets with Different Microstructural Features. <i>Jom</i> , 2022, 74, 2328-2337.	0.9	1
12	Machine learning assisted development of Fe ₂ P-type magnetocaloric compounds for cryogenic applications. <i>Acta Materialia</i> , 2022, 232, 117942.	3.8	14
13	Machine Learning Approach for Evaluation of Nanodefects and Magnetic Anisotropy in FePt Granular Films. <i>Scripta Materialia</i> , 2022, 218, 114797.	2.6	3
14	Identifying the mechanism of hard magnet coercivity by its angular dependence. <i>Physical Review B</i> , 2022, 105, .	1.1	4
15	Intrinsic magnetic properties of (Sm,Gd)Fe ₁₂ -based compounds with minimized addition of Ti. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157491.	2.8	19
16	Improved coercivity and squareness in bulk hot-deformed NdFeB magnets by two-step eutectic grain boundary diffusion process. <i>Acta Materialia</i> , 2021, 203, 116479.	3.8	51
17	SmFe ₁₂ -based hard magnetic alloys prepared by reduction-diffusion process. <i>Journal of Alloys and Compounds</i> , 2021, 861, 157993.	2.8	13
18	(Pr _{0.75} Ce _{0.25})-Fe-B hot-deformed magnets for cryogenic applications. <i>Scripta Materialia</i> , 2021, 194, 113648.	2.6	9

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19	Strain-induced cooling-heating switching of anisotropic magneto-Peltier effect. Applied Physics Letters, 2021, 118, .	1.5	6
20	Prospects for the development of SmFe ₁₂ -based permanent magnets with a ThMn ₁₂ -type phase. Scripta Materialia, 2021, 194, 113686.	2.6	37
21	Analysis of an all-in-plane spin-torque oscillator using injection locking to an external microwave magnetic field. Applied Physics Express, 2021, 14, 053001.	1.1	3
22	Magnetic properties and microstructure of Sm ₅ Fe ₁₇ -based composite magnets. Acta Materialia, 2021, 212, 116912.	3.8	5
23	Recent advances in SmFe ₁₂ -based permanent magnets. Science and Technology of Advanced Materials, 2021, 22, 449-460.	2.8	30
24	Most frequently asked questions about the coercivity of Nd-Fe-B permanent magnets. Science and Technology of Advanced Materials, 2021, 22, 386-403.	2.8	47
25	Phase relations and extrinsic magnetic properties of Sm ²⁺ (Fe,Co) ¹² (Ti ²⁺ (Ga)-based alloys for ThMn ₁₂ -type permanent magnets. Journal of Magnetism and Magnetic Materials, 2021, 529, 167866.	1.0	15
26	Role of V on the coercivity of SmFe ₁₂ -based melt-spun ribbons revealed by machine learning and microstructure characterizations. Scripta Materialia, 2021, 200, 113925.	2.6	18
27	Origin of coercivity in an anisotropic Sm(Fe,Ti,V) ₁₂ -based sintered magnet. Acta Materialia, 2021, 217, 117161.	3.8	20
28	Reduction of hysteresis in (La ₁ -Ce) (Mn Fe _{11.4})Si _{1.6} magnetocaloric compounds for cryogenic magnetic refrigeration. Acta Materialia, 2021, 220, 117286.	3.8	24
29	Significant coercivity enhancement of hot-deformed bulk magnets by two-step diffusion process using a minimal amount of Dy. Scripta Materialia, 2021, 205, 114207.	2.6	16
30	Analysis method of a spin-torque oscillator using dc resistance change during injection locking to an external microwave magnetic field. Applied Physics Letters, 2021, 119, .	1.5	3
31	Magnetic, magnetoresistive and low-frequency noise properties of tunnel magnetoresistance sensor devices with amorphous CoFeB/Ta soft magnetic layers. Journal Physics D: Applied Physics, 2021, 54, 095002.	1.3	10
32	Analysis of a Spin-Torque Oscillator Using Injection Locking to an External Microwave Field. , 2021, , .		0
33	Influence of LRE (Ce, Y, and La) on microstructure and magnetic properties of (Nd _{0.8} LRE _{0.2}) ¹² Fe ¹² B hot-deformed magnets. AIP Advances, 2021, 11, 115118.	0.6	2
34	Thermal decomposition of ThMn ₁₂ -type phase and its optimum stabilizing elements in SmFe ₁₂ -based alloys. Journal of Alloys and Compounds, 2020, 813, 152224.	2.8	48
35	An alternative approach to the measurement of anisotropy field H_a : Single grain extraction. Journal of Magnetism and Magnetic Materials, 2020, 494, 165747.	1.0	11
36	Relationship between the thermal stability of coercivity and the aspect ratio of grains in Nd-Fe-B magnets: Experimental and numerical approaches. Acta Materialia, 2020, 183, 408-417.	3.8	31

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37	On the temperature-dependent coercivities of anisotropic Nd-Fe-B magnet. <i>Acta Materialia</i> , 2020, 199, 288-296.	3.8	29
38	Direct detection and stochastic analysis on thermally activated domain-wall depinning events in micropatterned Nd-Fe-B hot-deformed magnets. <i>Acta Materialia</i> , 2020, 201, 7-13.	3.8	13
39	Tuning magnetocaloric effect of Ho ₁ GdNi ₂ and HoNi ₂ -Co alloys around hydrogen liquefaction temperature. <i>Scripta Materialia</i> , 2020, 188, 302-306.	2.6	21
40	Tuning transition temperature of magnetocaloric Mn _{1.8} Fe _{0.2} (P _{0.59} Si _{0.41}) alloys for cryogenic magnetic refrigeration. <i>Scripta Materialia</i> , 2020, 183, 127-132.	2.6	16
41	Achievement of high coercivity in Sm(Fe _{0.8} Co _{0.2}) ₁₂ anisotropic magnetic thin film by boron doping. <i>Acta Materialia</i> , 2020, 194, 337-342.	3.8	57
42	Simultaneous direct measurements of conventional and inverse magnetocaloric effects in Ni ²⁺ -Mn-based Heusler alloys using lock-in thermography technique. <i>AIP Advances</i> , 2020, 10, 065005.	0.6	9
43	Thermally-stable high coercivity Ce-substituted hot-deformed magnets with 20% Nd reduction. <i>Acta Materialia</i> , 2020, 190, 8-15.	3.8	47
44	Angular dependence and thermal stability of coercivity of Nd-rich Ga-doped Nd ²⁺ -Fe ²⁺ -B sintered magnet. <i>Acta Materialia</i> , 2020, 187, 66-72.	3.8	29
45	Anisotropy-induced spin reorientation in chemically modulated amorphous ferrimagnetic films. <i>Physical Review Materials</i> , 2020, 4, .	0.9	14
46	The effect of Zr substitution on saturation magnetization in (Sm _{1-x} Zr _x)(Fe _{0.8} Co _{0.2}) ₁₂ compound with the ThMn ₁₂ structure. <i>Acta Materialia</i> , 2019, 178, 114-121.	3.8	40
47	Magnetic in-plane components of FePt nanogranular film on polycrystalline MgO underlayer for heat-assisted magnetic recording media. <i>Acta Materialia</i> , 2019, 177, 1-8.	3.8	13
48	Influence of Ti addition on microstructure and magnetic properties of a heavy-rare-earth-free Nd-Fe-B sintered magnet. <i>Journal of Alloys and Compounds</i> , 2019, 806, 1267-1275.	2.8	14
49	Anisotropic, single-crystalline SmFe ₁₂ -based microparticles with high roundness fabricated by jet-milling. <i>Journal of Alloys and Compounds</i> , 2019, 804, 155-162.	2.8	40
50	Role of Co on the magnetic properties of Ce-substituted Nd-Fe-B hot-deformed magnets. <i>Acta Materialia</i> , 2019, 175, 1-10.	3.8	30
51	Development of high coercivity anisotropic Nd-Fe-B/Fe nanocomposite powder using hydrogenation disproportionation desorption recombination process. <i>Acta Materialia</i> , 2019, 175, 276-285.	3.8	27
52	Over 100% magnetoresistance ratio at room temperature in magnetic tunnel junctions with CuGaSe ₂ spacer layer. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	7
53	Inducing out-of-plane precession of magnetization for microwave-assisted magnetic recording with an oscillating polarizer in a spin-torque oscillator. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	16
54	Coercivity enhancement of selective laser sintered NdFeB magnets by grain boundary infiltration. <i>Acta Materialia</i> , 2019, 172, 66-71.	3.8	53

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55	Detection of elemental magnetization reversal events in a micro-patterned Nd-Fe-B hot-deformed magnet. <i>AIP Advances</i> , 2019, 9, 125052.	0.6	7
56	Observation of anomalous Ettingshausen effect and large transverse thermoelectric conductivity in permanent magnets. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	44
57	Magnetization reversal process of anisotropic hot-deformed magnets observed by magneto-optical Kerr effect microscopy. <i>Journal of Alloys and Compounds</i> , 2019, 771, 51-59.	2.8	16
58	Design of spin-injection-layer in all-in-plane spin-torque-oscillator for microwave assisted magnetic recording. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 476, 361-370.	1.0	8
59	Impact of carbon segregant on microstructure and magnetic properties of FePt-C nanogranular films on MgO (001) substrate. <i>Acta Materialia</i> , 2019, 166, 413-423.	3.8	28
60	Development of ultra-fine grain sized SmFe ₁₂ -based powders using hydrogenation disproportionation desorption recombination process. <i>Acta Materialia</i> , 2019, 165, 373-380.	3.8	33
61	Comparison of coercivity and squareness in hot-deformed and sintered magnets produced from a Nd-Fe-B-Cu-Ga alloy. <i>Scripta Materialia</i> , 2019, 160, 9-14.	2.6	31
62	Suppression of non-oriented grains in Nd-Fe-B hot-deformed magnets by Nb doping. <i>Scripta Materialia</i> , 2018, 147, 108-113.	2.6	22
63	Microstructural origin of hysteresis in Ni-Mn-In based magnetocaloric compounds. <i>Acta Materialia</i> , 2018, 147, 342-349.	3.8	28
64	Intrinsic magnetic properties of Sm(Fe ₁ -Co) ₁₁ Ti and Zr-substituted Sm _{1-y} Zr _y (Fe _{0.8} Co _{0.2}) _{11.5} Ti _{0.5} compounds with ThMn ₁₂ structure toward the development of permanent magnets. <i>Acta Materialia</i> , 2018, 153, 354-363.	3.8	92
65	Prospect for HRE-free high coercivity Nd-Fe-B permanent magnets. <i>Scripta Materialia</i> , 2018, 151, 6-13.	2.6	101
66	Temperature and field direction dependences of first-order reversal curve (FORC) diagrams of hot-deformed Nd-Fe-B magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 447, 110-115.	1.0	20
67	Coercivity enhancement of Nd-Fe-B hot-deformed magnets by the eutectic grain boundary diffusion process using Nd-Ga-Cu and Nd-Fe-Ga-Cu alloys. <i>AIP Advances</i> , 2018, 8, .	0.6	26
68	Searching the weakest link: Demagnetizing fields and magnetization reversal in permanent magnets. <i>Scripta Materialia</i> , 2018, 154, 253-258.	2.6	29
69	Coercivity enhancement of hot-deformed Ce-Fe-B magnets by grain boundary infiltration of Nd-Cu eutectic alloy. <i>Acta Materialia</i> , 2018, 144, 884-895.	3.8	89
70	Advances in Nd-Fe-B Based Permanent Magnets. <i>Handbook of Magnetic Materials</i> , 2018, 27, 269-372.	0.6	45
71	High magnetic field sensitivity in anti-ferromagnetically coupled 001-epitaxial [Co ₂ Fe(Al _{0.5} Si _{0.5})/Ag] _n /Ni _n multilayers. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	6
72	Coercivity and its thermal stability of Nd Fe B hot-deformed magnets enhanced by the eutectic grain boundary diffusion process. <i>Acta Materialia</i> , 2018, 161, 171-181.	3.8	96

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73	Back-Hopping in Spin-Transfer-Torque Devices: Possible Origin and Countermeasures. <i>Physical Review Applied</i> , 2018, 9, .	1.5	18
74	The local structure in heavily boron-doped diamond and the effect this has on its electrochemical properties. <i>Carbon</i> , 2018, 137, 333-342.	5.4	44
75	Microstructure of a Dy-free Nd-Fe-B sintered magnet with 2 $\hat{\epsilon}$ T coercivity. <i>Acta Materialia</i> , 2018, 156, 146-157.	3.8	56
76	Microstructure and magnetic properties of FePt-(C,SiO ₂) granular films deposited on MgO, MgTiO, and MgTiON underlayers. <i>Scripta Materialia</i> , 2018, 157, 1-5.	2.6	13
77	Reprint of Prospect for HRE-free high coercivity Nd-Fe-B permanent magnets. <i>Scripta Materialia</i> , 2018, 154, 277-283.	2.6	18
78	Pt surface segregation in L1 0 -FePt nano-grains. <i>Scripta Materialia</i> , 2017, 135, 88-91.	2.6	12
79	High frequency out-of-plane oscillation with large cone angle in mag-flip spin torque oscillators for microwave assisted magnetic recording. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	25
80	Magnetization reversal of exchange-coupled and exchange-decoupled Nd-Fe-B magnets observed by magneto-optical Kerr effect microscopy. <i>Acta Materialia</i> , 2017, 135, 68-76.	3.8	103
81	Structural origin of hysteresis for hexagonal (Mn,Fe) ₂ (P,Si) magneto-caloric compound. <i>Scripta Materialia</i> , 2017, 138, 96-99.	2.6	17
82	Microstructure and in-plane component of L10-FePt films deposited on MgO and MgAl ₂ O ₄ substrates. <i>Scripta Materialia</i> , 2017, 130, 247-251.	2.6	18
83	Correlation of microchemistry of cell boundary phase and interface structure to the coercivity of Sm(Co _{0.784} Fe _{0.100} Cu _{0.088} Zr _{0.028}) _{7.19} sintered magnets. <i>Acta Materialia</i> , 2017, 126, 1-10.	3.8	129
84	Annealing effect on current-driven domain wall motion in Pt/[Co/Ni] wire. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	4
85	Significant reduction of critical currents in MRAM designs using dual free layer with perpendicular and in-plane anisotropy. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	5
86	Fieldlike and Dampinglike Spin-Transfer Torque in Magnetic Multilayers. <i>Physical Review Applied</i> , 2017, 7, .	1.5	20
87	Coercivities of hot-deformed magnets processed from amorphous and nanocrystalline precursors. <i>Acta Materialia</i> , 2017, 123, 1-10.	3.8	39
88	Coercivity enhancement of hot-deformed Nd-Fe-B magnets by the eutectic grain boundary diffusion process using Nd 62 Dy 20 Al 18 alloy. <i>Scripta Materialia</i> , 2017, 129, 44-47.	2.6	86
89	Microstructure and magnetic properties of grain boundary modified recycled Nd-Fe-B sintered magnets. <i>Journal of Alloys and Compounds</i> , 2017, 694, 175-184.	2.8	34
90	Micromagnetic Simulations of Magnetization Reversals in Nd-Fe-B Based Permanent Magnets. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2017, 81, 11-18.	0.2	1

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91	On the synthesis and microstructure analysis of high performance MnBi. AIP Advances, 2016, 6, .	0.6	24
92	Reduction of critical current density for out-of-plane mode oscillation in a mag-flip spin torque oscillator using highly spin-polarized Co ₂ Fe(Ga _{0.5} Ge _{0.5}) spin injection layer. Applied Physics Letters, 2016, 108, .	1.5	23
93	Coercivity of the Nd-Fe-B hot-deformed magnets diffusion-processed with low melting temperature glass forming alloys. Journal of Magnetism and Magnetic Materials, 2016, 412, 234-242.	1.0	41
94	Micromagnetic Simulations of Magnetization Reversals in Nd-Fe-B Based Permanent Magnets. Materials Transactions, 2016, 57, 1221-1229.	0.4	27
95	Coercivity enhancement of hot-deformed Nd-Fe-B magnets by the eutectic grain boundary diffusion process. Journal of Alloys and Compounds, 2016, 666, 432-439.	2.8	86
96	Magnetization reversal of FePt based exchange coupled composite media. Acta Materialia, 2016, 111, 47-55.	3.8	24
97	The influence of grain morphology and easy axis orientation on the coercivity of Sm(Co _{0.9} Cu _{0.1}) ₅ thin films. Acta Materialia, 2016, 107, 49-58.	3.8	19
98	Magnetic and structural properties of MnRh thin Films. Journal of Magnetism and Magnetic Materials, 2016, 401, 144-149.	1.0	5
99	Structure Optimization of FePt-C Nanogranular Films for Heat-Assisted Magnetic Recording Media. IEEE Transactions on Magnetics, 2016, 52, 1-8.	1.2	9
100	Low-temperature Diffusion Process for Hot-deformed Bulk Permanent Magnet using RE-Cu Eutectic Alloy. IEEJ Transactions on Fundamentals and Materials, 2016, 136, 478-483.	0.2	0
101	Temperature-dependent magnetization reversal process and coercivity mechanism in Nd-Fe-B hot-deformed magnets. Journal of Applied Physics, 2015, 118, .	1.1	38
102	Energy barrier analysis on hot-deformed Nd-Fe-B magnets. , 2015, , .		0
103	Effect of MgO underlayer misorientation on the texture and magnetic property of FePt-C granular film. Acta Materialia, 2015, 91, 41-49.	3.8	49
104	Preparation, Characterization, and Modeling of Ultrahigh Coercivity Sm-Co Thin Films. Advanced Electronic Materials, 2015, 1, 1500009.	2.6	27
105	Microstructure and temperature dependent of coercivity of hot-deformed Nd-Fe-B magnets diffusion processed with Pr-Cu alloy. Acta Materialia, 2015, 99, 297-306.	3.8	127
106	Thermal stability of coercivity in grain boundary modified anisotropic hot-deformed Nd-Fe-B magnets. , 2015, , .		0
107	Mechanism of the texture development in hydrogen-disproportionation-desorption-recombination (HDDR) processed Nd-Fe-B powders. Acta Materialia, 2015, 85, 42-52.	3.8	49
108	Hard magnetic properties of spacer-layer-tuned NdFeB/Ta/Fe nanocomposite films. Acta Materialia, 2015, 84, 405-412.	3.8	35

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109	Grain size dependence of coercivity of hot-deformed Nd-Fe-B anisotropic magnets. <i>Acta Materialia</i> , 2015, 82, 336-343.	3.8	173
110	Low temperature diffusion process using rare earth-Cu eutectic alloys for hot-deformed Nd-Fe-B bulk magnets. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	73
111	Multi-scale characterization by FIB-SEM/TEM/3DAP. <i>Microscopy (Oxford, England)</i> , 2014, 63, i6-i7.	0.7	3
112	Raman spectral signature of Mn-rich nanoscale phase segregations in carbon free LiFe _{1-x} Mn _x PO ₄ prepared by hydrothermal technique. <i>RSC Advances</i> , 2014, 4, 64429-64437.	1.7	16
113	Magnetic and structural properties of MnBi multilayered thin films. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	34
114	Microstructure evolution of hot-deformed Nd-Fe-B anisotropic magnets. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	26
115	Micromagnetic simulations on the grain size dependence of coercivity in anisotropic Nd-Fe-B sintered magnets. <i>Scripta Materialia</i> , 2014, 89, 29-32.	2.6	164
116	High-coercivity hot-deformed Nd-Fe-B permanent magnets processed by Nd-Cu eutectic diffusion under expansion constraint. <i>Scripta Materialia</i> , 2014, 81, 48-51.	2.6	136
117	High-coercivity ultrafine-grained anisotropic Nd-Fe-B magnets processed by hot deformation and the Nd-Cu grain boundary diffusion process. <i>Acta Materialia</i> , 2013, 61, 6622-6634.	3.8	252
118	Enhancement of coercivity of hot-deformed Nd-Fe-B anisotropic magnet by low-temperature grain boundary diffusion of Nd ₆₀ Dy ₂₀ Cu ₂₀ eutectic alloy. <i>Scripta Materialia</i> , 2013, 69, 647-650.	2.6	114
119	Effect of Nd content on the microstructure and coercivity of hot-deformed Nd-Fe-B permanent magnets. <i>Acta Materialia</i> , 2013, 61, 5387-5399.	3.8	196
120	Photoemission electron microscopy study of sub-200 nm self-assembled La _{0.7} Sr _{0.3} MnO ₃ epitaxial islands. <i>Nanoscale</i> , 2013, 5, 2990.	2.8	9
121	Coercivity enhancement of rapidly solidified Nd-Fe-B magnet powders. <i>Scripta Materialia</i> , 2013, 68, 167-170.	2.6	46
122	Evidence for nano-Si clusters in amorphous SiO anode materials for rechargeable Li-ion batteries. <i>Scripta Materialia</i> , 2013, 69, 92-95.	2.6	23
123	The mechanism of coercivity enhancement by the grain boundary diffusion process of Nd-Fe-B sintered magnets. <i>Acta Materialia</i> , 2013, 61, 1982-1990.	3.8	248
124	High-coercivity Nd-Fe-B thick films without heavy rare earth additions. <i>Acta Materialia</i> , 2013, 61, 4920-4927.	3.8	42
125	EFFECT OF NANOCRYSTALLIZATION ANNEALING ON MAGNETIC PROPERTIES AND MAGNETOIMPEDANCE OF CO-BASE RIBBONS. <i>International Journal of Modern Physics Conference Series</i> , 2012, 05, 841-846.	0.7	0
126	Microstructure-Coercivity Relationships of Nd-Fe-B Base Permanent Magnets. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2012, 76, 2-11.	0.2	21

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127	Effect of ball-milling surfactants on the interface chemistry in hot-compacted SmCo ₅ magnets. <i>Acta Materialia</i> , 2012, 60, 6685-6691.	3.8	32
128	Strategy for high-coercivity Nd-Fe-B magnets. <i>Scripta Materialia</i> , 2012, 67, 530-535.	2.6	542
129	Grain boundary and interface chemistry of an Nd-Fe-B-based sintered magnet. <i>Acta Materialia</i> , 2012, 60, 819-830.	3.8	343
130	The effect of the thermal decomposition reaction on the mechanical and magnetocaloric properties of La(Fe,Si,Co) ₁₃ . <i>Acta Materialia</i> , 2012, 60, 4268-4276.	3.8	76
131	Enhanced coercivity of spark plasma sintered Zn-bonded Sm-Fe-N magnets. <i>Scripta Materialia</i> , 2012, 67, 153-156.	2.6	32
132	Microstructure of fine-grained Nd-Fe-B sintered magnets with high coercivity. <i>Scripta Materialia</i> , 2011, 65, 396-399.	2.6	165
133	Broadening the applications of the atom probe technique by ultraviolet femtosecond laser. <i>Ultramicroscopy</i> , 2011, 111, 576-583.	0.8	97
134	Distribution of Dy in high-coercivity (Nd,Dy)-Fe-B sintered magnet. <i>Acta Materialia</i> , 2011, 59, 3061-3069.	3.8	132
135	Coercivity enhancement of HDDR-processed Nd-Fe-B permanent magnet with the rapid hot-press consolidation process. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 115-121.	1.0	32
136	Quantitative laser atom probe analyses of hydrogenation-disproportionated Nd-Fe-B powders. <i>Ultramicroscopy</i> , 2011, 111, 615-618.	0.8	16
137	Coercivity enhancement of hydrogenation-disproportionation-desorption-recombination processed Nd-Fe-B powders by the diffusion of Nd-Cu eutectic alloys. <i>Scripta Materialia</i> , 2010, 63, 1124-1127.	2.6	219
138	Effect of Ga addition on the microstructure and magnetic properties of hydrogenation-disproportionation-desorption-recombination processed Nd-Fe-B powder. <i>Acta Materialia</i> , 2010, 58, 1309-1316.	3.8	62
139	Grain boundary structure and chemistry of Dy-diffusion processed Nd-Fe-B sintered magnets. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	127
140	Anisotropic Nd-Fe-B nanocrystalline magnets processed by spark plasma sintering and in situ hot pressing of hydrogenation-decomposition-desorption-recombination powder. <i>Scripta Materialia</i> , 2009, 61, 978-981.	2.6	40