

Xin Tang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	(Nd,La,Ce)-Fe-B hot-deformed magnets for application of variable-magnetic-force motors. <i>Acta Materialia</i> , 2022, 228, 117747.	7.9	10
2	Development of Co-lean (Sm,Y)(Fe,Co,Ti) ₁₂ compounds with large saturation magnetization. <i>Applied Physics Express</i> , 2022, 15, 045505.	2.4	4
3	Magnetic refrigeration material operating at a full temperature range required for hydrogen liquefaction. <i>Nature Communications</i> , 2022, 13, 1817.	12.8	64
4	Magnetization Reversals of Nd-Fe-B-Based Magnets with Different Microstructural Features. <i>Jom</i> , 2022, 74, 2328-2337.	1.9	1
5	Machine learning assisted development of Fe ₂ P-type magnetocaloric compounds for cryogenic applications. <i>Acta Materialia</i> , 2022, 232, 117942.	7.9	14
6	Improved coercivity and squareness in bulk hot-deformed Nd-Fe-B magnets by two-step eutectic grain boundary diffusion process. <i>Acta Materialia</i> , 2021, 203, 116479.	7.9	51
7	(Pr _{0.75} Ce _{0.25})-Fe-B hot-deformed magnets for cryogenic applications. <i>Scripta Materialia</i> , 2021, 194, 113648.	5.2	9
8	Phase relations and extrinsic magnetic properties of Sm-(Fe,Co)-Ti-(Ga)-based alloys for ThMn ₁₂ -type permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 529, 167866.	2.3	15
9	Role of V on the coercivity of SmFe ₁₂ -based melt-spun ribbons revealed by machine learning and microstructure characterizations. <i>Scripta Materialia</i> , 2021, 200, 113925.	5.2	18
10	Origin of coercivity in an anisotropic Sm(Fe,Ti,V) ₁₂ -based sintered magnet. <i>Acta Materialia</i> , 2021, 217, 117161.	7.9	20
11	Reduction of hysteresis in (La ₁ -Ce) (Mn Fe _{11.4})Si _{1.6} magnetocaloric compounds for cryogenic magnetic refrigeration. <i>Acta Materialia</i> , 2021, 220, 117286.	7.9	24
12	Significant coercivity enhancement of hot-deformed bulk magnets by two-step diffusion process using a minimal amount of Dy. <i>Scripta Materialia</i> , 2021, 205, 114207.	5.2	16
13	Influence of LRE (Ce, Y, and La) on microstructure and magnetic properties of (Nd _{0.8} LRE _{0.2})-Fe-B hot-deformed magnets. <i>AIP Advances</i> , 2021, 11, 115118.	1.3	2
14	Relationship between the thermal stability of coercivity and the aspect ratio of grains in Nd-Fe-B magnets: Experimental and numerical approaches. <i>Acta Materialia</i> , 2020, 183, 408-417.	7.9	31
15	On the temperature-dependent coercivities of anisotropic Nd-Fe-B magnet. <i>Acta Materialia</i> , 2020, 199, 288-296.	7.9	29
16	Tuning magnetocaloric effect of Ho ₁ -Gd Ni ₂ and HoNi ₂ -Co alloys around hydrogen liquefaction temperature. <i>Scripta Materialia</i> , 2020, 188, 302-306.	5.2	21
17	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.	5.2	16
18	Thermally-stable high coercivity Ce-substituted hot-deformed magnets with 20% Nd reduction. <i>Acta Materialia</i> , 2020, 190, 8-15.	7.9	47

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19	Angular dependence and thermal stability of coercivity of Nd-rich Ga-doped Nd-Fe-B sintered magnet. Acta Materialia, 2020, 187, 66-72.	7.9	29
20	Influence of Ti addition on microstructure and magnetic properties of a heavy-rare-earth-free Nd-Fe-B sintered magnet. Journal of Alloys and Compounds, 2019, 806, 1267-1275.	5.5	14
21	Role of Co on the magnetic properties of Ce-substituted Nd-Fe-B hot-deformed magnets. Acta Materialia, 2019, 175, 1-10.	7.9	30
22	Development of high coercivity anisotropic Nd-Fe-B/Fe nanocomposite powder using hydrogenation disproportionation desorption recombination process. Acta Materialia, 2019, 175, 276-285.	7.9	27
23	Suppression of non-oriented grains in Nd-Fe-B hot-deformed magnets by Nb doping. Scripta Materialia, 2018, 147, 108-113.	5.2	22
24	Coercivity enhancement of hot-deformed Ce-Fe-B magnets by grain boundary infiltration of Nd-Cu eutectic alloy. Acta Materialia, 2018, 144, 884-895.	7.9	89
25	Coercivity and its thermal stability of Nd-Fe-B hot-deformed magnets enhanced by the eutectic grain boundary diffusion process. Acta Materialia, 2018, 161, 171-181.	7.9	96
26	Coercivities of hot-deformed magnets processed from amorphous and nanocrystalline precursors. Acta Materialia, 2017, 123, 1-10.	7.9	39
27	Polycrystalline Nd ₂ Fe ₁₄ B/Fe nanocomposite flakes with a sub-micro/nanometre thickness prepared by surfactant-assisted high-energy ball milling. Journal of Alloys and Compounds, 2015, 644, 562-569.	5.5	8
28	Mechanism of texture enhancement in nanocomposite magnets during process of die upsetting coupled with Nd-Cu grain boundary diffusion. Journal of Alloys and Compounds, 2015, 623, 386-392.	5.5	17
29	Origins of Radial and Axial Inhomogeneity of Magnetic Performance in Cylindrical Nd-Fe-B Magnet Prepared by Hot Deformation. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	6
30	Impact of Nd-Cu diffusion on microstructure and coercivity in hot-pressed and die-upset nanocomposite magnets. Scripta Materialia, 2014, 88, 49-52.	5.2	30
31	Enhanced texture in die-upset nanocomposite magnets by Nd-Cu grain boundary diffusion. Applied Physics Letters, 2013, 102, .	3.3	43
32	An Analysis of the Magnetization Behavior and Temperature Dependence of Coercivity in Hot Deformed Nd ₂ Fe ₁₄ B Magnets with Different Deformation Degrees. , 2013, , 1821-1828.		1