

# Dongtao Zhang

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Anisotropic Nanocrystalline SmCo <sub>5</sub> Permanent Magnet Prepared by Hot Extrusion. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	1
2	Phase Structure and Properties of Fe-Rich 2:17-Type Sm-Co Sintered Magnets. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	1
3	Micromagnetic Simulation of Nitrogenation Effect on the Magnetic Properties of Sm <sub>2</sub> Fe <sub>17</sub> N <sub>3</sub> Alloy. IEEE Magnetics Letters, 2022, 13, 1-5.	1.1	3
4	Effects of Shape Anisotropy on Hard-Soft Exchange-Coupled Permanent Magnets. Nanomaterials, 2022, 12, 1261.	4.1	9
5	Structural evolution of anisotropic SmCo <sub>6.8</sub> Hf <sub>0.2</sub> nanocrystalline magnet prepared by hot deformation. Materials Research Letters, 2022, 10, 648-655.	8.7	3
6	Phase and Texture Evolution of Hot-Deformed Sm(Co,Fe,Cu,Zr) <sub>z</sub> Magnet. IEEE Transactions on Magnetics, 2021, 57, 1-5.	2.1	1
7	DDM Curing Enhancement for the Epoxy Resin Binder Bonded Nd-Fe-B Magnets. IEEE Transactions on Magnetics, 2021, 57, 1-7.	2.1	1
8	The Effect of Doping Cu Powders on Mechanical Properties and Magnetic Properties of Sm(CoFeCuZr) <sub>z</sub> Sintered Magnets. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	4
9	Tip Interface Exchange-Coupling Based on Bi-Anisotropic Nanocomposites with Low Rare-Earth Content. ACS Applied Materials & Interfaces, 2021, 13, 13548-13555.	8.0	8
10	Sm <sub>2</sub> Co <sub>7</sub> nanophase inducing low-temperature hot deformation to fabricate high performance SmCo <sub>5</sub> magnet. Scripta Materialia, 2020, 178, 34-38.	5.2	19
11	Powdering and SPS sintering effect on the magnetocaloric properties of MnNiSi-based compounds. AIP Advances, 2019, 9, 035205.	1.3	4
12	Microstructure Characteristics of 2:17 SmCo Commercial Magnets With Different Coercivities. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	2
13	Effect of ingot cooling rate on Cu distribution and magnetic properties of Sm(Co <sub>0.28</sub> Fe <sub>0.72</sub> Cu <sub>0.07</sub> Zr <sub>0.03</sub> ) <sub>7.6</sub> magnets. AIP Advances, 2019, 9, 125142.	1.3	3
14	Effect of phase composition on crystal texture formation in hot deformed nanocrystalline SmCo <sub>5</sub> magnets. AIP Advances, 2018, 8, .	1.3	12
15	Recycling of Nd-Fe-B Sintered Magnets Sludge via the Reduction-Diffusion Route To Produce Sintered Magnets with Strong Energy Density. ACS Sustainable Chemistry and Engineering, 2018, 6, 6547-6553.	6.7	18
16	Coercivity enhancement in PrCu-doped PrCo <sub>5</sub> hot deformed magnet. AIP Advances, 2018, 8, 056212.	1.3	0
17	Anisotropic SmCo <sub>5</sub> Nanocrystalline Magnet Prepared by Hot Deformation With Bulk Amorphous Precursors. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	6
18	Preparation and Characterization of Phenol Formaldehyde Bonded Nd-Fe-B Magnets With High Strength and Heat Resistance. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	5

#	ARTICLE	IF	CITATIONS
19	Crystal structure and magnetic properties of (Nd,Tb) <sub>2</sub> Fe <sub>14</sub> B nanoflakes prepared by surfactant-assisted ball milling. AIP Advances, 2017, 7, 056231.	1.3	2
20	Magnetization reversal behavior of SmCo <sub>6.6</sub> Nb <sub>0.4</sub> nanoflakes prepared by surfactant-assisted ball milling. AIP Advances, 2016, 6, .	1.3	1
21	Crystallographic orientation-dependent magnetic properties of a PrCo <sub>5</sub> permanent magnet prepared by hot deformation. CrystEngComm, 2016, 18, 2632-2641.	2.6	17
22	Hot Pressed Pr <sub>2</sub> (Fe,Co) <sub>14</sub> B/PrCo <sub>5</sub> Hybrid Magnet Prepared by Spark Plasma Sintering. IEEE Magnetics Letters, 2015, 6, 1-4.	1.1	4
23	Recycle of Waste Nd-Fe-B Sintered Magnets via NdHx Nanoparticles Modification. IEEE Transactions on Magnetics, 2015, 51, 1-3.	2.1	4
24	Structural and Magnetocaloric Properties of MnFeP <sub>1-x</sub> Si <sub>x</sub> Compounds Prepared by Spark Plasma Sintering. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	9
25	Distribution of boundary planes in a (La <sub>0.67</sub> Nd <sub>0.33</sub> )B <sub>6</sub> polycrystalline bulk prepared by spark plasma sintering. CrystEngComm, 2015, 17, 4210-4217.	2.6	8
26	Coercivity enhancement of recycled Nd-Fe-B sintered magnets by grain boundary diffusion with DyH <sub>3</sub> nano-particles. Physica B: Condensed Matter, 2015, 476, 147-149.	2.7	21
27	Orientation texture of local habit planes and its relevance to local magnetic performance in a hot deformed PrCo <sub>5</sub> bulk permanent magnet. RSC Advances, 2015, 5, 90976-90982.	3.6	5
28	Tuning of Microstructure and Magnetic Properties of Nanocrystalline NdFeB Permanent Magnets Prepared by Spark Plasma Sintering. IEEE Magnetics Letters, 2015, 6, 1-4.	1.1	11
29	Electrochemical corrosion behavior, microstructure and magnetic properties of sintered Nd-Fe-B permanent magnet doped by CuZn <sub>5</sub> powders. Journal of Applied Physics, 2014, 115, 17A716.	2.5	5
30	Magnetic hardening mechanism of SmCo <sub>6.6</sub> Nb <sub>0.4</sub> nanoflakes prepared by surfactant-assisted ball milling method. Journal of Applied Physics, 2014, 115, 17A713.	2.5	7
31	Magnetic properties and thermal stability of MnBi/SmFeN hybrid bonded magnets. Journal of Applied Physics, 2014, 115, 17A746.	2.5	12
32	Structure and Thermal Stability of a Bulk Nanocrystalline $\text{Sm}_{0.8}\text{Tm}_{0.2}\text{Co}_{5.2}$ Permanent Magnet. IEEE Transactions on Magnetics, 2014, 50, 1-3.	2.1	1
33	Orientation textures of grains and boundary planes in a hot deformed SmCo <sub>5</sub> permanent magnet. CrystEngComm, 2014, 16, 1669.	2.6	20
34	Investigation of Magnetic Properties of MnBi/ $\alpha$ -Fe Nanocomposite Permanent Magnets by Micro-Magnetic Simulation. IEEE Transactions on Magnetics, 2013, 49, 3391-3393.	2.1	20
35	Crystal structure and magnetic properties of SmCo <sub>6.6</sub> Nb <sub>0.4</sub> nanoflakes prepared by surfactant-assisted ball milling. Journal of Rare Earths, 2013, 31, 975-978.	4.8	12
36	Ternary DyFeB Nanoparticles and Nanoflakes With High Coercivity and Magnetic Anisotropy. IEEE Nanotechnology Magazine, 2012, 11, 651-653.	2.0	8

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37	Structure and magnetic properties of Mn <sub>1.2</sub> Fe <sub>0.8</sub> P <sub>0.76</sub> Ge <sub>0.24</sub> annealed alloy. Rare Metals, 2012, 31, 336-338.	7.1	7
38	Crystallographic alignment evolution and magnetic properties of Nd-Fe-B nanoflakes prepared by surfactant-assisted ball milling. Journal of Applied Physics, 2012, 111, .	2.5	25
39	Magnetic anisotropy in bulk nanocrystalline SmCo <sub>5</sub> permanent magnet prepared by hot deformation. Journal of Applied Physics, 2011, 109, .	2.5	69
40	Magnetic properties and thermal stability of MnBi/NdFeB hybrid bonded magnets. Journal of Applied Physics, 2011, 109, .	2.5	35
41	Structural and magnetic properties of bulk MnBi permanent magnets. Journal of Applied Physics, 2011, 109, .	2.5	33
42	Structural and magnetic properties of bulk nanocrystalline Erbium metal. AIP Advances, 2011, 1, .	1.3	2
43	Coercivity enhancement in Nd-Fe-B sintered permanent magnet doped with Pr nanoparticles. Journal of Applied Physics, 2011, 109, 07A749.	2.5	9
44	Ultrahigh coercivity in ternary Tb-Fe-B melt-spun ribbons. Journal of Applied Physics, 2011, 109, 07A760.	2.5	10
45	Structure and magnetic properties of ternary Tb-Fe-B nanoparticles and nanoflakes. Applied Physics Letters, 2011, 99, 162510.	3.3	14
46	Preparation and magnetic properties of bulk nanostructured PrCo <sub>5</sub> permanent magnets with strong magnetic anisotropy. Journal of Applied Physics, 2011, 109, .	2.5	20
47	Structure and magnetic properties of bulk anisotropic SmCo <sub>5</sub> /Fe nanocomposite permanent magnets with different Fe content. Journal of Applied Physics, 2011, 109, .	2.5	29
48	Nanocrystalline SmCo <sub>5</sub> magnet synthesized by spark plasma sintering. Journal of Applied Physics, 2010, 107, .	2.5	18
49	Structure and magnetic properties of bulk nanocrystalline Tm <sub>2</sub> (Co <sub>1-x</sub> Fe <sub>x</sub> ) <sub>17</sub> permanent magnet. Journal of Applied Physics, 2010, 107, 09A709.	2.5	0
50	Structure and magnetic properties of magnetically isotropic and anisotropic Nd-Fe-B permanent magnets prepared by spark plasma sintering technology. Journal of Applied Physics, 2010, 107, .	2.5	35
51	Electrochemical corrosion behavior of Nd-Fe-B permanent magnets with modified microstructure. Journal of Applied Physics, 2009, 105, 07A709.	2.5	12
52	Magnetic properties and structure of bulk nanocrystalline Sm(CoCuFeZr) <sub>7.6</sub> sintered magnet. Journal of Applied Physics, 2009, 105, 07A707.	2.5	4
53	Structure and magnetic properties of bulk nanocrystalline SmCo <sub>7-x</sub> Hf <sub>x</sub> sintered magnets. Journal of Applied Physics, 2008, 103, .	2.5	13
54	Structure and magnetic properties of bulk nanocrystalline SmCo <sub>6.6</sub> Nb <sub>0.4</sub> permanent magnets. Applied Physics Letters, 2007, 90, 242506.	3.3	45