

# Dongtao Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5196541/publications.pdf>

Version: 2024-02-01

54  
papers

647  
citations

567281

15  
h-index

642732

23  
g-index

54  
all docs

54  
docs citations

54  
times ranked

448  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic anisotropy in bulk nanocrystalline SmCo <sub>5</sub> permanent magnet prepared by hot deformation. Journal of Applied Physics, 2011, 109, .	2.5	69
2	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
3	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
4	Magnetic properties and thermal stability of MnBi/NdFeB hybrid bonded magnets. Journal of Applied Physics, 2011, 109, .	2.5	35
5	Structural and magnetic properties of bulk MnBi permanent magnets. Journal of Applied Physics, 2011, 109, .	2.5	33
6	Structure and magnetic properties of bulk anisotropic SmCo <sub>5</sub> /α-Fe nanocomposite permanent magnets with different α-Fe content. Journal of Applied Physics, 2011, 109, .	2.5	29
7	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
8	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
9	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
10	Investigation of Magnetic Properties of MnBi/α-Fe Nanocomposite Permanent Magnets by Micro-Magnetic Simulation. IEEE Transactions on Magnetics, 2013, 49, 3391-3393.	2.1	20
11	Orientation textures of grains and boundary planes in a hot deformed SmCo <sub>5</sub> permanent magnet. CrystEngComm, 2014, 16, 1669.	2.6	20
12	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
13	Nanocrystalline SmCo <sub>5</sub> magnet synthesized by spark plasma sintering. Journal of Applied Physics, 2010, 107, .	2.5	18
14	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
15	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
16	Structure and magnetic properties of ternary Tb-Fe-B nanoparticles and nanoflakes. Applied Physics Letters, 2011, 99, 162510.	3.3	14
17	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
18	Electrochemical corrosion behavior of Nd-Fe-B permanent magnets with modified microstructure. Journal of Applied Physics, 2009, 105, 07A709.	2.5	12

#	ARTICLE	IF	CITATIONS
19	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
20	Magnetic properties and thermal stability of MnBi/SmFeN hybrid bonded magnets. Journal of Applied Physics, 2014, 115, 17A746.	2.5	12
21	Effect of phase composition on crystal texture formation in hot deformed nanocrystalline SmCo <sub>5</sub> magnets. AIP Advances, 2018, 8, .	1.3	12
22	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
23	Ultrahigh coercivity in ternary Tb-Fe-B melt-spun ribbons. Journal of Applied Physics, 2011, 109, 07A760.	2.5	10
24	Coercivity enhancement in Nd-Fe-B sintered permanent magnet doped with Pr nanoparticles. Journal of Applied Physics, 2011, 109, 07A749.	2.5	9
25	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
26	Effects of Shape Anisotropy on Hard-Soft Exchange-Coupled Permanent Magnets. Nanomaterials, 2022, 12, 1261.	4.1	9
27	Ternary DyFeB Nanoparticles and Nanoflakes With High Coercivity and Magnetic Anisotropy. IEEE Nanotechnology Magazine, 2012, 11, 651-653.	2.0	8
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Recycle of Waste Nd-Fe-B Sintered Magnets via NdHx Nanoparticles Modification. IEEE Transactions on Magnetics, 2015, 51, 1-3.	2.1	4
39	Powdering and SPS sintering effect on the magnetocaloric properties of MnNiSi-based compounds. AIP Advances, 2019, 9, 035205.	1.3	4
40	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
41	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
42	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
43	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
44	Structural and magnetic properties of bulk nanocrystalline Erbium metal. AIP Advances, 2011, 1, .	1.3	2
45	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
46	Microstructure Characteristics of 2:17 SmCo Commercial Magnets With Different Coercivities. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	2
47	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
48	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
49	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
50	DDM Curing Enhancement for the Epoxy Resin Binder Bonded Nd-Fe-B Magnets. IEEE Transactions on Magnetics, 2021, 57, 1-7.	2.1	1
51	Anisotropic Nanocrystalline SmCo <sub>5</sub> Permanent Magnet Prepared by Hot Extrusion. IEEE Transactions on Magnetics, 2022, 58, 1-5.	2.1	1
52	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
53	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
54	Coercivity enhancement in PrCu-doped PrCo <sub>5</sub> hot deformed magnet. AIP Advances, 2018, 8, 056212.	1.3	0