

# Wei-Qiang Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4641157/publications.pdf>

Version: 2024-02-01

67  
papers

892  
citations

471509

17  
h-index

552781

26  
g-index

67  
all docs

67  
docs citations

67  
times ranked

594  
citing authors

#	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	Grain refinement leading to the ultra-high coercivity in L1 <sub>0</sub> -Mn <sub>1.33</sub> Ga bulk magnet via hot deformation. Applied Physics Letters, 2022, 120, 152403.	3.3	0
6	Tuning the distribution of Tb in Nd-Fe-B sintered magnet to overcome the magnetic properties trade-off. Scripta Materialia, 2022, 217, 114789.	5.2	10
7	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
8	Coercivity enhancement mechanism of grain boundary diffused Nd-Fe-B sintered magnets by magnetic domain evolution observation. Journal of Rare Earths, 2021, 39, 682-688.	4.8	11
9	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
10	DDM Curing Enhancement for the Epoxy Resin Binder Bonded Nd-Fe-B Magnets. IEEE Transactions on Magnetics, 2021, 57, 1-7.	2.1	1
11	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
12	Origin of low coercivity of high La-Ce-containing Nd-Fe-B sintered magnets. Rare Metals, 2021, 40, 180-184.	7.1	17
13	Coercivity enhancement mechanism of Tb-diffusion Nd-Fe-B sintered magnets studied by magneto-optical Kerr optical microscope. Rare Metals, 2021, 40, 570-574.	7.1	14
14	Improved color quality in double-EML WOLEDs by using a tetradentate Pt(II) complex as a green/red emitter. Journal of Materials Chemistry C, 2021, 9, 3384-3390.	5.5	16
15	Low-cost Sm <sub>0.7</sub> Y <sub>0.3</sub> Co <sub>5</sub> sintered magnet produced by traditional powder metallurgical techniques. Rare Metals, 2020, 39, 421-428.	7.1	8
16	Numerical simulation of single roller melt spinning for NdFeB alloy based on finite element method. Rare Metals, 2020, 39, 1145-1150.	7.1	9
17	Microstructure and magnetic properties of SmCo <sub>5</sub> sintered magnets. Rare Metals, 2020, 39, 1295-1299.	7.1	10
18	Progress in recycling of Nd-Fe-B sintered magnet wastes*. Chinese Physics B, 2019, 28, 077506.	1.4	13

#	ARTICLE	IF	CITATIONS
19	Powdering and SPS sintering effect on the magnetocaloric properties of MnNiSi-based compounds. AIP Advances, 2019, 9, 035205.	1.3	4
20	Microstructure Characteristics of 2:17 SmCo Commercial Magnets With Different Coercivities. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	2
21	Study on the high temperature magnetization reversal mechanism of grain boundary diffusion Nd-Fe-B sintered magnet by magnetic domain evolution observation. Materials Research Express, 2019, 6, 086101.	1.6	2
22	Origin of the coercivity difference in sintered Nd-Fe-B magnets by grain boundary diffusion process using TbH <sub>3</sub> nanoparticles and TbF <sub>3</sub> microparticles. Intermetallics, 2019, 110, 106464.	3.9	19
23	Effect of ingot cooling rate on Cu distribution and magnetic properties of Sm(Co <sub>0.28</sub> Fe <sub>0.07</sub> Zr <sub>0.03</sub> ) <sub>7.6</sub> magnets. AIP Advances, 2019, 9, 125142.	1.3	3
24	Magnetic domain switching in Nd-Fe-B sintered magnets with superior magnetic properties. Materials Research Letters, 2018, 6, 255-260.	8.7	43
25	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
26	Intrinsic evolution of novel (Nd, MM) <sub>2</sub> Fe <sub>14</sub> B-system magnetic flakes. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	3
27	Coercivity enhancement in PrCu-doped PrCo <sub>5</sub> hot deformed magnet. AIP Advances, 2018, 8, 056212.	1.3	0
28	Recycled Nd-Fe-B sintered magnets prepared from sludges by calcium reduction-diffusion process. Journal of Rare Earths, 2018, 36, 1284-1291.	4.8	18
29	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
30	Coercivity, microstructure, and thermal stability of sintered Nd-Fe-B magnets by grain boundary diffusion with TbH <sub>3</sub> nanoparticles. Rare Metals, 2017, 36, 718-722.	7.1	45
31	Enhancement of corrosion resistance in sintered Nd-Fe-B permanent magnet doping with different CuZn <sub>5</sub> contents. Rare Metals, 2017, 36, 812-815.	7.1	10
32	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
33	Enhanced Magnetic Properties of Spark Plasma Sintered (La/Ce)-Fe-B Magnets. IEEE Transactions on Magnetics, 2017, 53, 1-3.	2.1	12
34	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
35	High-temperature magnetic properties of anisotropic MnBi/NdFeB hybrid bonded magnets. Rare Metals, 2016, 35, 471-474.	7.1	21
36	Improving RO PUF design using frequency distribution characteristics. IEICE Electronics Express, 2015, 12, 20141043-20141043.	0.8	3

#	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	Recycling of scrap sintered Nd-Fe-B magnets as anisotropic bonded magnets via hydrogen decrepitation process. Journal of Material Cycles and Waste Management, 2015, 17, 547-552.	3.0	11
39	Recycle of Waste Nd-Fe-B Sintered Magnets via NdHx Nanoparticles Modification. IEEE Transactions on Magnetics, 2015, 51, 1-3.	2.1	4
40	Coercivity enhancement of recycled Nd-Fe-B sintered magnets by grain boundary diffusion with DyH3 nano-particles. Physica B: Condensed Matter, 2015, 476, 147-149.	2.7	21
41	RO PUF design in FPGAs with new comparison strategies. , 2015, , .		27
42	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
43	Magnetic properties and thermal stability of MnBi/SmFeN hybrid bonded magnets. Journal of Applied Physics, 2014, 115, 17A746.	2.5	12
44	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
45	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
46	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
47	Improvement of coercivity and corrosion resistance of Nd-Fe-B sintered magnets by doping aluminium nano-particles. Journal of Rare Earths, 2013, 31, 65-68.	4.8	31
48	Ternary DyFeB Nanoparticles and Nanoflakes With High Coercivity and Magnetic Anisotropy. IEEE Nanotechnology Magazine, 2012, 11, 651-653.	2.0	8
49	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
50	Magnetic anisotropy in bulk nanocrystalline SmCo <sub>5</sub> permanent magnet prepared by hot deformation. Journal of Applied Physics, 2011, 109, .	2.5	69
51	Magnetic properties and thermal stability of MnBi/NdFeB hybrid bonded magnets. Journal of Applied Physics, 2011, 109, .	2.5	35
52	Structural and magnetic properties of bulk MnBi permanent magnets. Journal of Applied Physics, 2011, 109, .	2.5	33
53	Structural and magnetic properties of bulk nanocrystalline Erbium metal. AIP Advances, 2011, 1, .	1.3	2
54	Coercivity enhancement in Nd-Fe-B sintered permanent magnet doped with Pr nanoparticles. Journal of Applied Physics, 2011, 109, 07A749.	2.5	9

#	ARTICLE	IF	CITATIONS
55	Ultrahigh coercivity in ternary Tb-Fe-B melt-spun ribbons. <i>Journal of Applied Physics</i> , 2011, 109, 07A760.	2.5	10
56	Structure and magnetic properties of ternary Tb-Fe-B nanoparticles and nanoflakes. <i>Applied Physics Letters</i> , 2011, 99, 162510.	3.3	14
57	Preparation and magnetic properties of bulk nanostructured PrCo <sub>5</sub> permanent magnets with strong magnetic anisotropy. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	20
58	Structure and magnetic properties of bulk anisotropic SmCo <sub>5</sub> /Î±-Fe nanocomposite permanent magnets with different Î±-Fe content. <i>Journal of Applied Physics</i> , 2011, 109, .	2.5	29
59	Structure and magnetic properties of magnetically isotropic and anisotropic Nd-Fe-B permanent magnets prepared by spark plasma sintering technology. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	35
60	Electrochemical corrosion behavior of Nd-Fe-B permanent magnets with modified microstructure. <i>Journal of Applied Physics</i> , 2009, 105, 07A709.	2.5	12
61	Tb nanoparticles doped Nd-Fe-B sintered permanent magnet with enhanced coercivity. <i>Applied Physics Letters</i> , 2009, 94, 092501.	3.3	57
62	Magnetic properties and structure of bulk nanocrystalline Sm(CoCuFeZr) <sub>7.6</sub> sintered magnet. <i>Journal of Applied Physics</i> , 2009, 105, 07A707.	2.5	4
63	Structure and magnetic properties of bulk nanocrystalline Dy metal prepared by spark plasma sintering. <i>Applied Physics Letters</i> , 2008, 93, 202501.	3.3	10
64	Oxidation kinetics of Nd-Fe-B permanent magnets with modified microstructure. <i>Journal of Applied Physics</i> , 2008, 103, 07E108.	2.5	5
65	Mechanical properties of spark plasma sintering Nd-Fe-B permanent magnets. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 4149-4152.	1.8	6
66	Corrosion kinetics of spark plasma sintering Nd-Fe-B magnets in different electrolytes. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 3892-3894.	2.1	8
67	Microstructure and properties of Nd-Fe-B magnets prepared by spark plasma sintering. <i>Materials Science and Technology</i> , 2004, 20, 666-668.	1.6	9