

# Sen Yang

## List of Publications by Year in descending order

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47  
papers

1,458  
citations

430874

18  
h-index

315739

38  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1644  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influences of La <sup>3+</sup> substitution on the structure and magnetic properties of M-type strontium ferrites. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 238, 207-214.	2.3	251
2	Origin of abnormal multi-stage martensitic transformation behavior in aged Ni-rich Ti-Ni shape memory alloys. <i>Acta Materialia</i> , 2004, 52, 4351-4362.	7.9	233
3	Large Magnetostriction from Morphotropic Phase Boundary in Ferromagnets. <i>Physical Review Letters</i> , 2010, 104, 197201.	7.8	148
4	Noncubic crystallographic symmetry of a cubic ferromagnet: Simultaneous structural change at the ferromagnetic transition. <i>Physical Review B</i> , 2008, 77, .	3.2	67
5	Evidence for ferromagnetic strain glass in Ni-Co-Mn-Ga Heusler alloy system. <i>Applied Physics Letters</i> , 2012, 101, 101913.	3.3	55
6	Phase diagram of polar states in doped ferroelectric systems. <i>Physical Review B</i> , 2012, 86, .	3.2	52
7	Liquid phase separation of Cu-Cr alloys during the vacuum breakdown. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7116-7120.	5.5	44
8	Microstructure at morphotropic phase boundary in Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> ceramic: Coexistence of nano-scaled {110}-type rhombohedral twin and {110}-type tetragonal twin. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	43
9	Magnetic properties and magnetocaloric effects in (Gd <sub>x</sub> Dy <sub>1-x</sub> )Co <sub>2</sub> compounds. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 297, 247-252.	2.1	42
10	Molten hydroxides synthesis of hierarchical cobalt oxide nanostructure and its application as anode material for lithium ion batteries. <i>Electrochimica Acta</i> , 2011, 56, 4876-4881.	5.2	41
11	Facile synthesis and electrochemical properties of porous SnO <sub>2</sub> micro-tubes as anode material for lithium-ion battery. <i>Materials Letters</i> , 2010, 64, 921-923.	2.6	40
12	Inverse effect of morphotropic phase boundary on the magnetostriction of ferromagnetic Tb <sub>1-x</sub> Gd <sub>x</sub> Fe <sub>2</sub> system. <i>Physical Review B</i> , 2008, 78, .	3.2	37
13	Nanoporous Ag prepared from the melt-spun Cu-Ag alloys. <i>Solid State Sciences</i> , 2011, 13, 1379-1384.	3.2	30
14	Evidence for first-order nature of the ferromagnetic transition in Ni, Fe, Co, and Tb <sub>1-x</sub> Gd <sub>x</sub> Fe <sub>2</sub> system. <i>Physical Review B</i> , 2008, 78, .	3.2	29
15	Evolution of the relaxation spectrum during the strain glass transition of Ti <sub>48.5</sub> Ni <sub>51.5</sub> alloy. <i>Acta Materialia</i> , 2010, 58, 4723-4729.	7.9	25
16	Morphotropic phase boundary and magnetoelastic behaviour in ferromagnetic Tb <sub>1-x</sub> Gd <sub>x</sub> Fe <sub>2</sub> system. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	24
17	A multistep ac electrodeposition method to prepare Co nanowires with high coercivity. <i>Journal of Applied Physics</i> , 2008, 104, 064304.	2.5	21
18	Synthesis and cathodoluminescent properties of Y <sub>2</sub> SiO <sub>5</sub> :Tb <sup>3+</sup> phosphors prepared from uniform precursor. <i>Journal of Luminescence</i> , 2012, 132, 1122-1125.	3.1	21

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19	Stress changed damping and associated transforming behavior in a Ti48.5Ni51.5 strain glass. Applied Physics Letters, 2011, 99, .	3.3	16
20	Magnetocaloric effect in the vicinity of the magnetic phase transition in $\text{NdCo}_{2-x}\text{Ni}_x$ compounds. Physical Review B, 2020, 101, .	2.0	16
21	Improved microstructure and magnetic properties of iron-cobalt nanowire via an ac electrodeposition with a multistep voltage. Materials Letters, 2010, 64, 2465-2467.	2.6	15
22	Electric modulation of conduction in multiferroic Ni-doped $\text{GaFeO}_3$ ceramics. Journal Physics D: Applied Physics, 2018, 51, 225002.	2.8	15
23	The electrochemical properties of melt-spun $\text{Al-Si-Cu}$ alloys. Materials Chemistry and Physics, 2011, 129, 1006-1010.	4.0	14
24	Enhancement of the exchange coupling interaction of nanocomposite $\text{Nd}_2\text{Fe}_{14}\text{B}/\text{Fe}$ magnets by a small amount of Sm substitution for Nd. Journal of Alloys and Compounds, 2005, 394, 1-4.	5.5	13
25	Low-field large magnetostriction in $\text{DyCo}_2$ due to field-induced rearrangement of tetragonal variants. Applied Physics Letters, 2013, 103, 111903.	3.3	13
26	In-situ studies of low-field large magnetostriction in $\text{Tb}_{1-x}\text{Dy}_x\text{Fe}_2$ compounds by synchrotron-based high-energy x-ray diffraction. Journal of Alloys and Compounds, 2016, 658, 372-376.	5.5	13
27	Magnetic entropy change in $(\text{Gd}_{1-x}\text{Dy}_x)_5\text{Si}_4$ compounds. Journal of Alloys and Compounds, 2004, 372, 49-51.	5.5	12
28	A new method detaching porous anodic alumina films from aluminum substrates. Journal of Electroceramics, 2008, 21, 791-794.	2.0	12
29	Synthesis of copper oxide nanostructures via a composite-Hydroxide-mediated approach: Morphology control and the electrochemical performances as anode material for lithium ion batteries. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 506-510.	2.7	12
30	The electrochemical properties of $\text{Al-Si-Ni}$ alloys composed of nanocrystal and metallic glass for lithium-ion battery anodes. Journal of Solid State Electrochemistry, 2012, 16, 2159-2167.	2.5	12
31	Magnetocaloric effect and critical exponent analysis around magnetic phase transition in $\text{NdCo}_2$ compound. Journal Physics D: Applied Physics, 2020, 53, 345003.	2.8	11
32	Effect of Cu and Ti additions on the microstructures and magnetic properties of $\text{Nd}_8\text{Fe}_{86}\text{B}_6$ nanocomposite magnets. Journal of Magnetism and Magnetic Materials, 2003, 263, 134-140.	2.3	10
33	Large exchange bias in magnetic shape memory alloys by tuning magnetic ground state and magnetic-field history. Science China Materials, 2020, 63, 1291-1299.	6.3	8
34	Sign-changed-magnetostriction effect of morphotropic phase boundary in pseudobinary $\text{DyCo}_2/\text{DyFe}_2$ compounds. Physical Review Materials, 2019, 3, .	2.7	8
35	Magnetodielectric effect in $\text{CoCr}_2\text{XFe}_x\text{O}_4$ . Journal of Physics: Conference Series, 2011, 266, 012001.	0.4	7
36	A quantitative model for stabilization effect induced by ferroelectric aging. Journal of Applied Physics, 2011, 109, 124103.	2.5	7

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37	Local structure study on magnetostrictive material $Tb_{1-x}Dy_xFe_2$ . Journal of Applied Physics, 2020, 127, .	2.5	7
38	Modeling magnetic nanotubes using a chain of ellipsoid-rings approach. Journal of Applied Physics, 2012, 111, 063912.	2.5	6
39	Anomalous magnetoelastic behaviour near morphotropic phase boundary in ferromagnetic $Tb_{1-x}Nd_xCo_2$ system. Applied Physics Letters, 2016, 109, 052904.	3.3	6
40	MAGNETIC PROPERTIES OF $FENI$ NANOWIRE ARRAYS ASSEMBLED ON POROUS AAO TEMPLATE BY AC ELECTRODEPOSITION. International Journal of Modern Physics B, 2010, 24, 2302-2307.	2.0	5
41	Effect of Cu and $Cu\text{-}Ti$ additions on the microstructures and magnetic properties of $Nd_2Fe_{14}B\text{-}Fe$ nanocomposite magnets. Journal of Alloys and Compounds, 2003, 358, 316-320.	5.5	4
42	Tuning the conductivity and magnetism of silicon coated multiferroic $GaFeO_3$ nanoparticles. Journal of Sol-Gel Science and Technology, 2019, 92, 224-230.	2.4	4
43	Crystal structures and phase relationships in magnetostrictive $Tb_{1-x}Dy_xCo_2$ system. Journal of Physics Condensed Matter, 2020, 32, 135802.	1.8	4
44	Giant exchange bias in micro-sized magnetic shape memory alloy particles. Journal Physics D: Applied Physics, 2021, 54, 045001.	2.8	3
45	Monte Carlo simulation on the magnetization rotation near magnetic morphotropic phase boundary. Proceedings of SPIE, 2012, , .	0.8	1
46	Experimental Observation of van Hove Singularities in Quasi-1D $MoO_2$ Nanotubes. Advanced Electronic Materials, 2019, 5, 1900005.	5.1	1
47	Magnetic and Magnetostrictive Behaviors of Laves-Phase Rare-Earth Transition-Metal Compounds $Tb_{1-x}Dy_xCo_{1.95}$ . Materials, 2022, 15, 3884.	2.9	0