

Bao-Yu Zong

List of Publications by Year in descending order

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48
papers

1,079
citations

687363

13
h-index

395702

33
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49
all docs

49
docs citations

49
times ranked

1576
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanowalls and related materials. <i>Journal of Materials Chemistry</i> , 2004, 14, 469.	6.7	275
2	Angular dependence of the coercivity and remanence of ferromagnetic nanowire arrays. <i>Journal of Applied Physics</i> , 2003, 93, 9202-9207.	2.5	164
3	Fabrication of a Class of Nanostructured Materials Using Carbon Nanowalls as the Templates. <i>Advanced Functional Materials</i> , 2002, 12, 489.	14.9	76
4	Electrochemical Synthesis and Characterization of Magnetic Nanoparticles on Carbon Nanowall Templates. <i>Nano Letters</i> , 2002, 2, 751-754.	9.1	73
5	Methotrexate-conjugated and hyperbranched polyglycerol-grafted Fe ₃ O ₄ magnetic nanoparticles for targeted anticancer effects. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 48, 111-120.	4.0	61
6	Nanoporous Low-Dielectric Constant Polyimide Films via Poly(amic acid)s with RAFT-Graft Copolymerized Methyl Methacrylate Side Chains. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 6723-6730.	3.7	52
7	Size-dependent microwave absorption properties of Fe ₃ O ₄ nanodiscs. <i>RSC Advances</i> , 2016, 6, 25444-25448.	3.6	50
8	Hairy Hybrid Nanoparticles of Magnetic Core, Fluorescent Silica Shell, and Functional Polymer Brushes. <i>Macromolecules</i> , 2009, 42, 8561-8565.	4.8	46
9	Magnetic properties of magnetic nanowire arrays. <i>IEEE Transactions on Magnetics</i> , 2002, 38, 2562-2564.	2.1	39
10	Synthesis of Iron Oxide Nanostructures by Annealing Electrodeposited Fe-Based Films. <i>Chemistry of Materials</i> , 2005, 17, 1515-1520.	6.7	34
11	Investigation of magnetic proximity effect in Ta/YIG bilayer Hall bar structure. <i>Journal of Applied Physics</i> , 2014, 115, 17C509.	2.5	32
12	Electrodeposition of granular FeCoNi films with large permeability for microwave applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 16042.	6.7	27
13	A study of multirow-per-track bit patterned media by spinstand testing and magnetic force microscopy. <i>Applied Physics Letters</i> , 2008, 93, 102501.	3.3	14
14	Exchange bias and magnetotransport properties in IrMn/NiFe/FeMn structures. <i>Physical Review B</i> , 2008, 78, .	3.2	11
15	Microwave permeability of stripe patterned FeCoN thin film. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 426, 467-472.	2.3	10
16	Switching Probability Distribution of Bit Islands in Bit Patterned Media. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 1990-1993.	2.1	9
17	Magnetic field dependence of low frequency noise in tunnel magnetoresistance heads. <i>Journal of Applied Physics</i> , 2010, 107, 09C706.	2.5	9
18	Individual bit island reversal and switching field distribution in perpendicular magnetic bit patterned media. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 264-268.	2.3	8

#	ARTICLE	IF	CITATIONS
19	A General Approach to Semimetallic, Ultra-High-Resolution, Electron-Beam Resists. <i>Advanced Functional Materials</i> , 2009, 19, 1437-1443.	14.9	7
20	A simple approach to sub-100 nm resist nanopatterns with a high aspect ratio. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 035038.	2.6	6
21	Electrodeposited thin FeCo films with highly thermal stable properties in high frequency range obtained by annealing in a strong magnetic field. <i>Journal of Applied Physics</i> , 2016, 120, 065306.	2.5	6
22	Ultrasoft and High Magnetic Moment NiFe Film Electrodeposited From a Cu ²⁺ Contained Solution. <i>IEEE Transactions on Magnetics</i> , 2006, 42, 2775-2777.	2.1	5
23	Ultrasoft and High Magnetic Moment CoFe Films Directly Electrodeposited from a B-Reducer Contained Solution. <i>Research Letters in Physical Chemistry</i> , 2008, 2008, 1-4.	0.3	5
24	Tuning exchange coupling by replacing CoFe with amorphous CoFeB in the CoFe/Ru/CoFe synthetic antiferromagnetic structure. <i>Solid State Communications</i> , 2010, 150, 45-48.	1.9	5
25	Polypyrrole: FeO _x -ZnO nanoparticle solar cells with breakthrough open-circuit voltage prepared from relatively stable liquid dispersions. <i>RSC Advances</i> , 2014, 4, 58608-58614.	3.6	5
26	Microstructure and Magnetic Anisotropy of Electro-Deposited FeCo Thin Films. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	2.1	5
27	Tailoring Diverse Microwave Properties of High Magnetic Moment FeCo Nanofilms through Different Atom Arrangements. <i>ChemElectroChem</i> , 2015, 2, 1760-1767.	3.4	5
28	Immobilization of Functional Oxide Nanoparticles on Silicon Surfaces via Si-C Bonded Polymer Brushes. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1458-1463.	0.9	4
29	The influence of nano-oxide layer on magnetostriction of sensing layer in bottom spin valves. <i>Journal of Applied Physics</i> , 2006, 99, 094304.	2.5	4
30	Synthesis and multi-applications of conductive magnetic stable polypyrrole dispersion with phase-convertible characteristics. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 156-163.	4.0	4
31	Hard Bias Effect on Magnetic Noise in Different Types of Tunnel Magnetoresistive Heads. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 3597-3600.	2.1	3
32	Magnetic force microscopy and spinstand testing of multi-row-per-track discrete bit patterned media fabricated by focused ion beam. <i>Journal of Applied Physics</i> , 2009, 105, 07C105.	2.5	3
33	Development of current perpendicular to plane differential dual spin valve for ultrahigh resolution. <i>Journal of Applied Physics</i> , 2011, 109, 07B707.	2.5	3
34	Fabrication of ultrahigh density metal-cell-metal crossbar memory devices with only two cycles of lithography and dry-etch procedures. <i>Nanotechnology</i> , 2013, 24, 245303.	2.6	3
35	Growth Method to Improve the Resonant Frequency and Magnetic Permeability of FeCo Thin Films. <i>IEEE Magnetics Letters</i> , 2015, 6, 1-4.	1.1	3
36	N ₂ purging effect on electrodeposition of active ferromagnetic thin FeCo films. <i>Journal of Alloys and Compounds</i> , 2018, 730, 284-290.	5.5	3

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37	Temperature Dependence of Thermally Activated Ferromagnetic Resonance in Tunneling Magnetoresistive Heads. IEEE Transactions on Magnetics, 2007, 43, 819-821.	2.1	2
38	Changing pollutants to green biogases for the crop food cycle chain. Environmental Science and Pollution Research, 2012, 19, 3450-3460.	5.3	2
39	Scalable Toggle Read Sensor. IEEE Transactions on Magnetics, 2007, 43, 657-662.	2.1	1
40	Abnormal increase in ferromagnetic resonance amplitude just before the breakdown in tunnel magnetoresistive heads. Journal of Applied Physics, 2008, 103, .	2.5	1
41	The influence of oxygen on structure and magnetic properties of full Heusler Co ₂ MnAl films and magnetic tunnel junctions. Journal of Applied Physics, 2009, 105, 07C932.	2.5	1
42	Large magnetic permeability and resonant frequency of CoFe nanofilms electrodeposited via optimizing plating solution parameters based on electrochemistry mechanisms. Materials Research Society Symposia Proceedings, 2014, 1708, 7.	0.1	1
43	Quick fabrication of appropriate morphology and composition CoFe films with desirable microwave properties. International Journal of Materials Research, 2015, 106, 1077-1085.	0.3	1
44	Micromagnetic Investigation of Microwave Permeability of Magnetic Artificial Spin Ice. Materials Sciences and Applications, 2014, 05, 991-995.	0.4	1
45	High density Flash-like cross-point MRAM. , 2006, , .		0
46	Magnetic Mesoporous Fluoropolymer Nanospheres from Plasma Processes and Adsorption of Surface-Functionalized Magnetic Nanoparticles. Plasma Processes and Polymers, 2007, 4, 390-397.	3.0	0
47	Gap Layer Effect on Performances of Differential Dual Spin Valve. IEEE Transactions on Magnetics, 2013, 49, 3714-3717.	2.1	0
48	Relation Between Plating Current Density and Microwave Properties of Thin Magnetic Film. , 2013, , 2147-2155.		0