

Zhengcao Li

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76
papers

1,362
citations

22
h-index

35
g-index

80
ext. papers

1,515
ext. citations

4.2
avg, IF

4.51
L-index

#	Paper	IF	Citations
76	Oxygen vacancy induced ferromagnetism in un-doped ZnO thin films. <i>Journal of Applied Physics</i> , 2012 , 111, 033501	2.5	113
75	Enhanced Visible Light Photocatalytic Activity of ZnO Nanowires Doped with Mn and Co Ions. <i>Nanomaterials</i> , 2017 , 7,	5.4	86
74	Enhanced visible light photocatalytic performance of ZnO nanowires integrated with CdS and Ag ₂ S. <i>Dalton Transactions</i> , 2016 , 45, 3750-8	4.3	76
73	Operando monitoring the lithium spatial distribution of lithium metal anodes. <i>Nature Communications</i> , 2018 , 9, 2152	17.4	69
72	ZnO nanorod/porous silicon nanowire hybrid structures as highly-sensitive NO ₂ gas sensors at room temperature. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4835-41	3.6	60
71	Origin of the defects-induced ferromagnetism in un-doped ZnO single crystals. <i>Applied Physics Letters</i> , 2013 , 102, 071914	3.4	60
70	Oxygen defect induced photoluminescence of HfO ₂ thin films. <i>Applied Physics Letters</i> , 2008 , 93, 011905	3.4	53
69	Rapid recognition of isomers of monochlorobiphenyls at trace levels by surface-enhanced Raman scattering using Ag nanorods as a substrate. <i>Nano Research</i> , 2010 , 3, 423-428	10	52
68	Enhanced surface-enhanced Raman scattering performance by folding silver nanorods. <i>Applied Physics Letters</i> , 2012 , 100, 113101	3.4	49
67	Surface graphited carbon scaffold enables simple and scalable fabrication of 3D composite lithium metal anode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19168-19174	13	47
66	Efficient photocatalytic performance enhancement in Co-doped ZnO nanowires coupled with CuS nanoparticles. <i>Applied Surface Science</i> , 2018 , 428, 154-164	6.7	42
65	A Simple Model to Describe the Rule of Glancing Angle Deposition. <i>Materials Transactions</i> , 2011 , 52, 469-473	4.3	40
64	Optimizing Field Emission Properties of the Hybrid Structures of Graphene Stretched on Patterned and Size-controllable SiNWs. <i>Scientific Reports</i> , 2015 , 5, 15035	4.9	39
63	Effect of magnetic field on the visible light emission of V ₂ O ₅ nanorods. <i>Applied Physics Letters</i> , 2009 , 94, 103107	3.4	37
62	Honeycomb-like ZnO Mesoporous Nanowall Arrays Modified with Ag Nanoparticles for Highly Efficient Photocatalytic Activity. <i>Scientific Reports</i> , 2017 , 7, 11622	4.9	36
61	Highly enhanced response of MoS ₂ /porous silicon nanowire heterojunctions to NO at room temperature.. <i>RSC Advances</i> , 2018 , 8, 11070-11077	3.7	34
60	Substrate effect on the room-temperature ferromagnetism in un-doped ZnO films. <i>Applied Physics Letters</i> , 2012 , 101, 031913	3.4	33

59	Enhanced photoelectrochemical properties of TiO nanorod arrays decorated with CdS nanoparticles. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 055006	7.1	30
58	Enhanced Field Emission Performance of Hierarchical ZnO/Si Nanotrees with Spatially Branched Heteroassemblies. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13564-8	9.5	26
57	Enhanced field-emission of silver nanoparticle-graphene oxide decorated ZnO nanowire arrays. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 31822-9	3.6	26
56	Growth control of tungsten oxide nanostructures on planar silicon substrates. <i>Applied Physics Letters</i> , 2006 , 89, 193111	3.4	24
55	Nanostructuring HfO ₂ Thin Films as Antireflection Coatings. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 3077-3080	3.8	22
54	Role of Ag ₂ S coupling on enhancing the visible-light-induced catalytic property of TiO ₂ nanorod arrays. <i>Scientific Reports</i> , 2016 , 6, 19754	4.9	20
53	MoO thin films deposited by magnetron sputtering as an anode for aqueous micro-supercapacitors. <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 065005	7.1	19
52	Growth of [010] oriented HfMoO ₃ nanorods by pulsed electron beam deposition. <i>Applied Physics Letters</i> , 2011 , 99, 223104	3.4	18
51	Effects of reaction temperature and inlet oxidizing gas flow rate on IG-110 graphite oxidation used in HTR-PM. <i>Journal of Nuclear Science and Technology</i> , 2017 , 54, 196-204	1	14
50	Enhanced room-temperature ferromagnetism in un-doped ZnO thin films by thermal annealing in a strong magnetic field. <i>Journal of Applied Physics</i> , 2012 , 111, 103524	2.5	14
49	Preparation and Photocatalytic Property of TiO ₂ Columnar Nanostructure Films. <i>Materials Transactions</i> , 2011 , 52, 1939-1942	1.3	14
48	Effects of Porosity and Temperature on Oxidation Behavior in Air of Selected Nuclear Graphites. <i>Materials Transactions</i> , 2012 , 53, 1159-1163	1.3	14
47	High performance sandwich structured Si thin film anodes with LiPON coating. <i>Frontiers of Materials Science</i> , 2018 , 12, 147-155	2.5	13
46	TDDFT study on quantization behaviors of nonadiabatic couplings in polyatomic systems. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 263-271	2.1	13
45	Aqueous Phase Synthesis and Enhanced Field Emission Properties of ZnO-Sulfide Heterojunction Nanowires. <i>Scientific Reports</i> , 2016 , 6, 29470	4.9	13
44	CO ₂ corrosion of IG-110 nuclear graphite studied by gas chromatography. <i>Journal of Nuclear Science and Technology</i> , 2014 , 51, 487-492	1	12
43	Facile Synthesis of α -Fe ₂ O ₃ Nanostructured Films with Controlled Morphology. <i>Materials Transactions</i> , 2009 , 50, 1351-1354	1.3	12
42	Effects of solute elements on microstructural evolution in Fe-based alloys during neutron irradiation following thermal ageing. <i>Journal of Nuclear Materials</i> , 2018 , 498, 259-268	3.3	11

41	Tunable field emission properties of well-aligned silicon nanowires with controlled aspect ratio and proximity. <i>RSC Advances</i> , 2014 , 4, 31729-31734	3.7	11
40	Effect of Xe ion irradiation on photocatalytic performance of oblique TiO ₂ nanowire arrays. <i>Applied Surface Science</i> , 2015 , 327, 478-482	6.7	9
39	Effects of solute elements on hardening and microstructural evolution in neutron-irradiated and thermally-aged reactor pressure vessel model alloys. <i>Journal of Nuclear Science and Technology</i> , 2016 , 53, 1546-1553	1	8
38	Mechanical property improvement by texture control of magnetron co-sputtered Zr-Ti films. <i>Journal of Applied Physics</i> , 2014 , 115, 043524	2.5	8
37	Visible Light Photoelectrochemical Properties of N-Doped TiO ₂ Nanorod Arrays from TiN. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-8	3.2	8
36	Realignment of slanted Fe nanorods on silicon substrates by a strong magnetic field. <i>Nano Research</i> , 2010 , 3, 438-443	10	8
35	Synthesis of silicon carbide nanowires by solid phase source chemical vapor deposition. <i>Frontiers of Materials Science in China</i> , 2007 , 1, 304-308		8
34	Positron annihilation and nano-indentation analysis of irradiation effects on the microstructure and hardening of A508-3 steels used in Chinese HTGR. <i>Journal of Nuclear Science and Technology</i> , 2018 , 55, 418-423	1	8
33	Investigation of oxidation behaviors of nuclear graphite being developed and IG-110 based on gas analysis. <i>Journal of Nuclear Science and Technology</i> , 2017 , 54, 1168-1177	1	6
32	Characterizing thermal-oxidation behaviors of nuclear graphite by combining O supply and micro surface area of graphite. <i>Scientific Reports</i> , 2018 , 8, 13400	4.9	6
31	Radiation Defects Formed in Ion-Irradiated 316L Stainless Steel Model Alloys with Different Si Additions. <i>Materials Transactions</i> , 2015 , 56, 1549-1552	1.3	4
30	Preparation of Highly Textured ZnO Thin Films by Pulsed Electron Deposition. <i>Materials Transactions</i> , 2011 , 52, 1764-1767	1.3	4
29	Light-Directed Assembly of Colloidal Matter. <i>Advanced Functional Materials</i> , 2104649	15.6	4
28	Precision dilatometer analysis of neutron-irradiated nuclear graphite recovery process up to 1673 K. <i>Journal of Nuclear Science and Technology</i> , 2017 , 54, 424-431	1	3
27	Investigation of kinetic recovery process in low dose neutron-irradiated nuclear graphite by thermal annealing. <i>Journal of Nuclear Science and Technology</i> , 2019 , 56, 533-540	1	3
26	Investigation on the oxidation behavior and multi-step reaction mechanism of nuclear graphite SNG742. <i>Journal of Nuclear Science and Technology</i> , 2020 , 57, 263-275	1	3
25	Highly conductive AZO thin films obtained by rationally optimizing substrate temperature and oxygen partial pressure. <i>Molecular Crystals and Liquid Crystals</i> , 2017 , 644, 190-196	0.5	2
24	X-ray irradiation-induced reversible wettability modification of titanium NRAs. <i>RSC Advances</i> , 2015 , 5, 4524-4528	3.7	2

23	Fabrication and Optical Property of Periodic $\text{Sn}_{1-x}\text{Ti}_x\text{O}_2$ Nanostructures Patterned by the Polystyrene Microsphere Templates. <i>Journal of Nanomaterials</i> , 2011 , 2011, 1-7	3.2	2
22	Irradiation Induced Localized Amorphization in Mo-Re Alloy Films. <i>Materials Transactions</i> , 2010 , 51, 670-674		2
21	Anisotropic ferromagnetism in $\text{Fe}_x\text{Sn}_{1-x}\text{O}_2$ nanostructure arrays. <i>Journal of Materials Science</i> , 2018 , 53, 3280-3288	4.3	2
20	Nitrogen ion irradiation effect on enhancing photocatalytic performance of CdTe/ZnO heterostructures. <i>Frontiers of Materials Science</i> , 2018 , 12, 392-404	2.5	2
19	Temperature-Dependent Multi-Scale Pore Evolution and Nitrogen Diffusion in Nuclear Graphite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 3008-3016	2.3	1
18	Dimensional changes and thermal conductivity by annealing and its relation to the defect concentration and stored energy release of neutron-irradiated graphite. <i>Journal of Nuclear Science and Technology</i> , 2019 , 56, 1006-1013	1	1
17	The evolution of He^+ irradiation-induced point defects and helium retention in nuclear graphite. <i>Journal of Nuclear Science and Technology</i> , 2019 , 56, 744-751	1	1
16	Effect of nitrogen ion irradiation treatment to the enhancement of ZnO photocatalytic performance. <i>Surface and Interface Analysis</i> , 2020 , 52, 348-354	1.5	1
15	Wettability manipulation of magnetic transition metal nanorod arrays by X-ray irradiation. <i>Frontiers of Materials Science</i> , 2015 , 9, 311-315	2.5	1
14	The Novel Wetting Behavior of Periodic $\text{Ti}_x\text{Sn}_{1-x}\text{O}_2$ Nanostructures. <i>Materials Transactions</i> , 2012 , 53, 191-194	1.3	1
13	Influence of deposition conditions on the morphology and phase of tungsten oxide nanorods synthesized by thermal oxidation. <i>Frontiers of Materials Science in China</i> , 2007 , 1, 16-19		1
12	High-magnetic field annealing effect on room-temperature ferromagnetism enhancement of un-doped HfO_2 thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 119, 917-921	2.6	0
11	Oxidation Experiments and Kinetics Analysis of Nuclear Graphite ET-10 by Gas Analysis and Microstructure Observation. <i>Energies</i> , 2021 , 14, 6392	3.1	0
10	Plasmonic photothermal synthesis of ZnO microspheres on Au/ SiO_2 nanostructures. <i>Journal of Applied Physics</i> , 2020 , 128, 133105	2.5	0
9	The structure evolution in neutron-irradiated nuclear graphite and post-annealing. <i>Radiation Physics and Chemistry</i> , 2022 , 197, 110156	2.5	0
8	Thermal stability and sputtering resistance under irradiation of yttria dispersed ferrum films. <i>Rare Metals</i> , 2011 , 30, 258-261	5.5	
7	Influence of vacuum annealing and irradiation on magnetic properties of Fe-3% Y_2O_3 films. <i>Rare Metals</i> , 2011 , 30, 453-457	5.5	
6	Effects of Alkali Corrosion Preprocessing on the Growth of Aligned Silver Nanorods Array and Its Improvement for Surface-Enhanced Raman Scattering. <i>Materials Transactions</i> , 2012 , 53, 1278-1281	1.3	

- 5 FUELING RPS WITH MEDIUM AND MEDIUM HEAVY METAL ISOTOPES FROM FRESH SPENT NUCLEAR FUEL OF LWR. *The Proceedings of the International Conference on Nuclear Engineering (ICONE)*, **2019**, 2019.27, 1977 0.1
- 4 Neutron Depth Profiling Study on ⁶Lithium and ¹⁰Boron Contents of Nuclear Graphite. *Journal of Nuclear Science and Technology*, **2021**, 58, 1018-1024 1
- 3 Study on reaction of ¹⁵-¹⁵Ti with fission products under various oxygen potential. *Journal of Nuclear Science and Technology*, **2019**, 56, 105-110 1
- 2 Ab initio calculations of interaction between Ni and Si in α -Fe. *Journal of Nuclear Science and Technology*, **2021**, 58, 201-206 1
- 1 Microstructure Characterization and Small Punch Test Analysis in Nickel-Based Alloy 617 by High Energy Neon Implantation. *Metals*, **2022**, 12, 438 2.3