Wenzhi Li

List of Publications by Year in descending order

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76 papers	3,594 citations	201575 27 h-index	133188 59 g-index
80 all docs	80 docs citations	80 times ranked	6228 citing authors

#	Article	IF	Citations
1	Configuration of Methylammonium Lead Iodide Perovskite Solar Cell and its Effect on the Device's Performance: A Review. Advanced Materials Interfaces, 2022, 9, .	1.9	10
2	Ni3S2 nanowires filled carbon nanotubes of ultra-high quality: Synthesis methods, structure, and electrical properties. Diamond and Related Materials, 2022, 127, 109156.	1.8	2
3	Synthesis and field emission properties of Cu-filled vertically aligned carbon nanotubes. Applied Surface Science, 2021, 537, 148086.	3.1	6
4	Direct synthesis of micropillars of vertically aligned carbon nanotubes on stainless-steel and their excellent field emission properties. Carbon, 2021, 171, 188-200.	5.4	19
5	Black phosphorus nanosheets and ZnAl-LDH nanocomposite as environmental-friendly photocatalysts for the degradation of Methylene blue under visible light irradiation. Applied Clay Science, 2021, 200, 105902.	2.6	23
6	In-Plane Optical and Electrical Anisotropy of 2D Black Arsenic. ACS Nano, 2021, 15, 1701-1709.	7.3	41
7	Study on the effect of Sn concentration on the structural, optical, and electrical properties of (Al_{0.55}In_{0.45})₂O₃:Sn films. New Journal of Chemistry, 2021, 45, 4318-4325.	1.4	0
8	Ambient processed (110) preferred MAPbI₃ thin films for highly efficient perovskite solar cells. Nanoscale Advances, 2021, 3, 2056-2064.	2.2	15
9	Study of the Annealing Effect on the Î³-Phase Aluminum Oxide Films Prepared by the High-Vacuum MOCVD System. Coatings, 2021, 11, 389.	1.2	5
10	Fabrication of black phosphorus nanosheets/BiOBr visible light photocatalysts via the co-precipitation method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 612, 125967.	2.3	20
11	Central-collapsed structure of CoFeAl layered double hydroxides and its photocatalytic performance. Journal of Colloid and Interface Science, 2021, 590, 571-579.	5.0	14
12	Double S-scheme AgBr heterojunction co-modified with g-C3N4 and black phosphorus nanosheets greatly improves the photocatalytic activity and stability. Journal of Molecular Liquids, 2021, 329, 115540.	2.3	32
13	Superconductivity in ThMo2Si2C with Mo2C square net. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	4
14	Fabrication of direct Z-scheme black phosphorus nanosheets/Ag2CO3 heterojunction photocatalyst with enhanced stability and visible light photocatalytic activity. Journal of Materials Science, 2021, 56, 8060-8078.	1.7	10
15	Rapid quantitative analysis and optical properties of ZCTO thin films based on picosecond laser-induced breakdown spectroscopy. Applied Physics B: Lasers and Optics, 2021, 127, 1.	1.1	1
16	Improving field emission properties of vertically aligned carbon nanotube arrays through a structure modification. Journal of Materials Science, 2020, 55, 2101-2117.	1.7	18
17	Density control of vertically aligned carbon nanotubes and its effect on field emission properties. Materials Today Communications, 2020, 22, 100761.	0.9	7
18	All-Inorganic Perovskite CsPb₂Br₅ Nanosheets for Photodetector Application Based on Rapid Growth in Aqueous Phase. ACS Applied Materials & Interfaces, 2020, 12, 41919-41931.	4.0	25

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19	Picosecond laser ablation and depth profile of Cu(In, Ga)Se2 thin film layer. Optics Communications, 2020, 462, 125369.	1.0	4
20	Construction of PDDA functionalized black phosphorus nanosheets/BiOI Z-scheme photocatalyst with enhanced visible light photocatalytic activity. Journal of Colloid and Interface Science, 2020, 576, 34-46.	5.0	37
21	One-step co-precipitation method to construct black phosphorus nanosheets/ZnO nanohybrid for enhanced visible light photocatalytic activity. Applied Surface Science, 2019, 497, 143682.	3.1	40
22	Effects of Chlorine Addition to TiO₂ Nanorods-Based Perovskite Solar Cells. Nano, 2019, 14, 1950077.	0.5	1
23	Comparative study of electron field emission from randomly-oriented and vertically-aligned carbon nanotubes synthesized on stainless steel substrates. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 041202.	0.6	8
24	Quantitative Analysis of Trace Metals in Engine Oil Using Indirect Ablation-Laser Induced Breakdown Spectroscopy. Journal of Applied Spectroscopy, 2019, 86, 43-49.	0.3	6
25	PbI₂ Nanosheets for Photodetectors via the Facile Cooling Thermal Supersaturation Solution Method. Journal of Physical Chemistry C, 2019, 123, 9609-9616.	1.5	19
26	Improving Photocatalytic Degradation Activity of Organic Pollutant by Sn4+ Doping of Anatase TiO2 Hierarchical Nanospheres with Dominant {001} Facets. Nanomaterials, 2019, 9, 1603.	1.9	20
27	Efficiency enhancement of perovskite solar cell by modifying the TiO ₂ with Ag/TiO ₂ coreâ€“shell nanowires. Micro and Nano Letters, 2019, 14, 1075-1078.	0.6	3
28	Synthesis, properties, and applications of carbon nanotubes filled with foreign materials: a review. Materials Today Physics, 2018, 7, 7-34.	2.9	104
29	Direct growth of vertically aligned carbon nanotubes on stainless steel by plasma enhanced chemical vapor deposition. Diamond and Related Materials, 2018, 90, 144-153.	1.8	18
30	Synthesis and Photoluminescence Properties of 2D Phenethylammonium Lead Bromide Perovskite Nanocrystals. Small Methods, 2017, 1, 1700245.	4.6	27
31	Scanning Ion Conductance Microscopic Study for Cellular Uptake of Cationic Conjugated Polymer Nanoparticles. Macromolecular Bioscience, 2016, 16, 599-607.	2.1	14
32	Interaction of Organic Cation with Water Molecule in Perovskite MAPbI₃: From Dynamic Orientational Disorder to Hydrogen Bonding. Chemistry of Materials, 2016, 28, 7385-7393.	3.2	169
33	Critical kinetic control of non-stoichiometric intermediate phase transformation for efficient perovskite solar cells. Nanoscale, 2016, 8, 12892-12899.	2.8	98
34	SnO₂ Nanoparticles: Grapheneâ€Skeleton Heatâ€Coordinated and Nanoamorphousâ€Surfaceâ€State Controlled Pseudoâ€Negativeâ€Photoconductivity of Tiny SnO₂ Nanoparticles (Adv. Mater. 23/2015). Advanced Materials, 2015, 27, 3579-3579.	11.1	3
35	Grapheneâ€Skeleton Heatâ€Coordinated and Nanoamorphousâ€Surfaceâ€State Controlled Pseudoâ€Negativeâ€Photoconductivity of Tiny SnO₂ Nanoparticles. Advanced Materials, 2015, 27, 3525-3532.	11.1	35
36	Ambient Filtration Method To Rapidly Prepare Highly Conductive, Paper-Based Porous Gold Films for Electrochemical Biosensing. ACS Applied Materials & Interfaces, 2015, 7, 27049-27058.	4.0	29

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37	Solvothermal synthesis and structural characterization of unfilled and Ybâ€filled cobalt antimony skutterudite. Crystal Research and Technology, 2014, 49, 135-141.	0.6	8
38	Improved charge transport of Nb-doped TiO₂nanorods in methylammonium lead iodide bromide perovskite solar cells. Journal of Materials Chemistry A, 2014, 2, 19616-19622.	5.2	127
39	Quantitative study of proteinâ€“protein interactions by quartz nanopipettes. Nanoscale, 2014, 6, 10255-10263.	2.8	31
40	In Situ Transmission Electron Microscopy Observation of Electrochemical Sodiation of Individual Co₉S₈-Filled Carbon Nanotubes. ACS Nano, 2014, 8, 3620-3627.	7.3	76
41	Synthesis and structure of undoped and indium-doped thermoelectric lead telluride nanoparticles. Nanoscale Research Letters, 2014, 9, 227.	3.1	14
42	In Situ Transmission Electron Microscopy Investigation of the Electrochemical Lithiationâ€“Delithiation of Individual Co₉S₈/Co-Filled Carbon Nanotubes. ACS Nano, 2013, 7, 11379-11387.	7.3	70
43	Multiple Step Growth of Single Crystalline Rutile Nanorods with the Assistance of Self-Assembled Monolayer for Dye Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2013, 5, 9809-9815.	4.0	19
44	Synthesis and electron field emission of vertically aligned carbon nanotubes grown on stainless steel substrate. , 2013, , .		0
45	Influence of Substrate Temperature on Stress and Morphology Characteristics of Co Doped ZnO Films Prepared by Laser-Molecular Beam Epitaxy. Journal of Materials Science and Technology, 2013, 29, 1134-1138.	5.6	9
46	An increase in the field emission from vertically aligned multiwalled carbon nanotubes caused by NH3 plasma treatment. Carbon, 2013, 52, 468-475.	5.4	47
47	Electrical Transport Properties of Multilayered Single-Walled Carbon Nanotube Films. Journal of Nanotechnology, 2012, 2012, 1-5.	1.5	7
48	Synthesis and field emission properties of vertically aligned carbon nanotube arrays on copper. Carbon, 2012, 50, 2641-2650.	5.4	109
49	A review of application of carbon nanotubes for lithium ion battery anode material. Journal of Power Sources, 2012, 208, 74-85.	4.0	625
50	Synthesis and Thermoelectric Properties of Bi2Se3 Nanostructures. Nanoscale Research Letters, 2011, 6, 57.	3.1	142
51	Carbon Nanotube Arrays: Synthesis, Properties, and Applications. , 2011, , 261-285.		4
52	Fluctuation-induced tunneling dominated electrical transport in multi-layered single-walled carbon nanotube films. Thin Solid Films, 2011, 519, 7987-7991.	0.8	10
53	Synthesis and characterization of ruthenium dioxide nanostructures. Journal of Materials Science, 2011, 46, 4803-4811.	1.7	9
54	Solvothermal Synthesis, Structure and Optical Property of Nanosized CoSb3 Skutterudite. Nanoscale Research Letters, 2010, 5, 1698-1705.	3.1	19

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55	Zinc oxide micro- and nanoparticles: Synthesis, structure and optical properties. Materials Research Bulletin, 2010, 45, 190-196.	2.7	27
56	Synthesis, structure and optical properties of zinc oxide hexagonal microprisms. Crystal Research and Technology, 2010, 45, 311-315.	0.6	55
57	Effect of annealing and HNO3-treatment on the electrical properties of transparent conducting carbon nanotube films. Microelectronic Engineering, 2010, 87, 576-579.	1.1	25
58	Fabrication and electrical property of single-walled carbon nanotube films. , 2010, , .		0
59	Nanosize Transition Metal Antimonides, NiSb and FeSb₂: Solvothermal Synthesis and Characterization. Journal of Physical Chemistry C, 2010, 114, 9573-9579.	1.5	25
60	Vertically aligned and interconnected nickel oxide nanowalls fabricated by hydrothermal route. Crystal Research and Technology, 2009, 44, 495-499.	0.6	69
61	Synthesis, microstructure and optical characterization of zirconium oxide nanostructures. Ceramics International, 2009, 35, 2401-2408.	2.3	100
62	Self-assembly of Î²-Ni(OH)2 nanoflakelets to form hollow submicrospheres by hydrothermal route. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1289-1292.	1.3	19
63	Mechanical properties of carbon nanotubeâ€“alumina nanocomposites synthesized by chemical vapor deposition and spark plasma sintering. Composites Part A: Applied Science and Manufacturing, 2009, 40, 86-93.	3.8	79
64	Matchstick-like carbon nanotube synthesis and structure. Applied Physics A: Materials Science and Processing, 2008, 90, 411-415.	1.1	0
65	Monoclinic zirconium oxide nanostructures synthesized by a hydrothermal route. Nanotechnology, 2008, 19, 195602.	1.3	54
66	Filling Carbon Nanotubes with Co₉S₈ Nanowires through in Situ Catalyst Transition and Extrusion. Journal of Physical Chemistry C, 2008, 112, 1890-1895.	1.5	33
67	Probing electrical transport in individual carbon nanotubes and junctions. Nanotechnology, 2008, 19, 485201.	1.3	10
68	A cryogenic Quadraprobe scanning tunneling microscope system with fabrication capability for nanotransport research. Review of Scientific Instruments, 2007, 78, 123701.	0.6	58
69	Structure of flattened carbon nanotubes. Carbon, 2007, 45, 2938-2945.	5.4	9
70	Growth and Structure of Carbon Nanotube Y-Junctions. Journal of Physical Chemistry B, 2006, 110, 23694-23700.	1.2	12
71	Mechanical and physical properties on carbon nanotube. Journal of Physics and Chemistry of Solids, 2000, 61, 1153-1158.	1.9	386
72	Carbon nanotube arrays. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 11-15.	2.6	49

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73	A structure model and growth mechanism for novel carbon nanotubes. Journal of Materials Science, 1999, 34, 2745-2749.	1.7	20
74	Large-scale preparation of dispersive carbon nanotubes by arc-discharge method. Science in China Series A: Mathematics, 1998, 41, 431-437.	0.5	2
75	Raman characterization of aligned carbon nanotubes produced by thermal decomposition of hydrocarbon vapor. Applied Physics Letters, 1997, 70, 2684-2686.	1.5	337
76	Morphology, structure and Raman scattering of carbon nanotubes produced by using mesoporous materials. Science in China Series A: Mathematics, 1997, 40, 971-977.	0.5	5