

Wenzhi Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1649323/publications.pdf>

Version: 2024-02-01

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	A review of application of carbon nanotubes for lithium ion battery anode material. Journal of Power Sources, 2012, 208, 74-85.	4.0	625
2	Mechanical and physical properties on carbon nanotube. Journal of Physics and Chemistry of Solids, 2000, 61, 1153-1158.	1.9	386
3	Raman characterization of aligned carbon nanotubes produced by thermal decomposition of hydrocarbon vapor. Applied Physics Letters, 1997, 70, 2684-2686.	1.5	337
4	Interaction of Organic Cation with Water Molecule in Perovskite MAPbI ₃ : From Dynamic Orientational Disorder to Hydrogen Bonding. Chemistry of Materials, 2016, 28, 7385-7393.	3.2	169
5	Synthesis and Thermoelectric Properties of Bi ₂ Se ₃ Nanostructures. Nanoscale Research Letters, 2011, 6, 57.	3.1	142
6	Improved charge transport of Nb-doped TiO ₂ nanorods in methylammonium lead iodide bromide perovskite solar cells. Journal of Materials Chemistry A, 2014, 2, 19616-19622.	5.2	127
7	Synthesis and field emission properties of vertically aligned carbon nanotube arrays on copper. Carbon, 2012, 50, 2641-2650.	5.4	109
8	Synthesis, properties, and applications of carbon nanotubes filled with foreign materials: a review. Materials Today Physics, 2018, 7, 7-34.	2.9	104
9	Synthesis, microstructure and optical characterization of zirconium oxide nanostructures. Ceramics International, 2009, 35, 2401-2408.	2.3	100
10	Critical kinetic control of non-stoichiometric intermediate phase transformation for efficient perovskite solar cells. Nanoscale, 2016, 8, 12892-12899.	2.8	98
11	Mechanical properties of carbon nanotube/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
12	<i>In Situ</i> Transmission Electron Microscopy Observation of Electrochemical Sodiation of Individual Co ₉ S ₈ -Filled Carbon Nanotubes. ACS Nano, 2014, 8, 3620-3627.	7.3	76
13	<i>In Situ</i> Transmission Electron Microscopy Investigation of the Electrochemical Lithiation/Delithiation of Individual Co ₉ S ₈ /Co-Filled Carbon Nanotubes. ACS Nano, 2013, 7, 11379-11387.	7.3	70
14	Vertically aligned and interconnected nickel oxide nanowalls fabricated by hydrothermal route. Crystal Research and Technology, 2009, 44, 495-499.	0.6	69
15	A cryogenic Quadrupole scanning tunneling microscope system with fabrication capability for nanotransport research. Review of Scientific Instruments, 2007, 78, 123701.	0.6	58
16	Synthesis, structure and optical properties of zinc oxide hexagonal microprisms. Crystal Research and Technology, 2010, 45, 311-315.	0.6	55
17	Monoclinic zirconium oxide nanostructures synthesized by a hydrothermal route. Nanotechnology, 2008, 19, 195602.	1.3	54
18	Carbon nanotube arrays. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 286, 11-15.	2.6	49

#	ARTICLE	IF	CITATIONS
19	An increase in the field emission from vertically aligned multiwalled carbon nanotubes caused by NH ₃ plasma treatment. Carbon, 2013, 52, 468-475.	5.4	47
20	In-Plane Optical and Electrical Anisotropy of 2D Black Arsenic. ACS Nano, 2021, 15, 1701-1709.	7.3	41
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	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
23	Grapheneâ€‘skeleton Heatâ€‘Coordinated and Nanoamorphousâ€‘Surfaceâ€‘State Controlled Pseudoâ€‘Negativeâ€‘Photoconductivity of Tiny SnO ₂ Nanoparticles. Advanced Materials, 2015, 27, 3525-3532.	11.1	35
24	Filling Carbon Nanotubes with Co ₉ S ₈ Nanowires through in Situ Catalyst Transition and Extrusion. Journal of Physical Chemistry C, 2008, 112, 1890-1895.	1.5	33
25	Double S-scheme AgBr heterojunction co-modified with g-C ₃ N ₄ and black phosphorus nanosheets greatly improves the photocatalytic activity and stability. Journal of Molecular Liquids, 2021, 329, 115540.	2.3	32
26	Quantitative study of proteinâ€‘protein interactions by quartz nanopipettes. Nanoscale, 2014, 6, 10255-10263.	2.8	31
27	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
28	Zinc oxide micro- and nanoparticles: Synthesis, structure and optical properties. Materials Research Bulletin, 2010, 45, 190-196.	2.7	27
29	Synthesis and Photoluminescence Properties of 2D Phenethylammonium Lead Bromide Perovskite Nanocrystals. Small Methods, 2017, 1, 1700245.	4.6	27
30	Effect of annealing and HNO ₃ -treatment on the electrical properties of transparent conducting carbon nanotube films. Microelectronic Engineering, 2010, 87, 576-579.	1.1	25
31	Nanosize Transition Metal Antimonides, NiSb and FeSb ₂ : Solvothermal Synthesis and Characterization. Journal of Physical Chemistry C, 2010, 114, 9573-9579.	1.5	25
32	All-Inorganic Perovskite CsPb ₂ Br ₅ Nanosheets for Photodetector Application Based on Rapid Growth in Aqueous Phase. ACS Applied Materials & Interfaces, 2020, 12, 41919-41931.	4.0	25
33	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
34	A structure model and growth mechanism for novel carbon nanotubes. Journal of Materials Science, 1999, 34, 2745-2749.	1.7	20
35	Improving Photocatalytic Degradation Activity of Organic Pollutant by Sn ⁴⁺ Doping of Anatase TiO ₂ Hierarchical Nanospheres with Dominant {001} Facets. Nanomaterials, 2019, 9, 1603.	1.9	20
36	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

#	ARTICLE	IF	CITATIONS
37	Self-assembly of $\text{Ni}(\text{OH})_2$ nanoflakelets to form hollow microspheres by hydrothermal route. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1289-1292.	1.3	19
38	Solvothermal Synthesis, Structure and Optical Property of Nanosized CoSb_3 Skutterudite. <i>Nanoscale Research Letters</i> , 2010, 5, 1698-1705.	3.1	19
39	Multiple Step Growth of Single Crystalline Rutile Nanorods with the Assistance of Self-Assembled Monolayer for Dye Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9809-9815.	4.0	19
40	PbI_2 Nanosheets for Photodetectors via the Facile Cooling Thermal Supersaturation Solution Method. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9609-9616.	1.5	19
41	Direct synthesis of micropillars of vertically aligned carbon nanotubes on stainless-steel and their excellent field emission properties. <i>Carbon</i> , 2021, 171, 188-200.	5.4	19
42	Direct growth of vertically aligned carbon nanotubes on stainless steel by plasma enhanced chemical vapor deposition. <i>Diamond and Related Materials</i> , 2018, 90, 144-153.	1.8	18
43	Improving field emission properties of vertically aligned carbon nanotube arrays through a structure modification. <i>Journal of Materials Science</i> , 2020, 55, 2101-2117.	1.7	18
44	Ambient processed (110) preferred MAPbI_3 thin films for highly efficient perovskite solar cells. <i>Nanoscale Advances</i> , 2021, 3, 2056-2064.	2.2	15
45	Synthesis and structure of undoped and indium-doped thermoelectric lead telluride nanoparticles. <i>Nanoscale Research Letters</i> , 2014, 9, 227.	3.1	14
46	Scanning Ion Conductance Microscopic Study for Cellular Uptake of Cationic Conjugated Polymer Nanoparticles. <i>Macromolecular Bioscience</i> , 2016, 16, 599-607.	2.1	14
47	Central-collapsed structure of CoFeAl layered double hydroxides and its photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 571-579.	5.0	14
48	Growth and Structure of Carbon Nanotube Y-Junctions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23694-23700.	1.2	12
49	Probing electrical transport in individual carbon nanotubes and junctions. <i>Nanotechnology</i> , 2008, 19, 485201.	1.3	10
50	Fluctuation-induced tunneling dominated electrical transport in multi-layered single-walled carbon nanotube films. <i>Thin Solid Films</i> , 2011, 519, 7987-7991.	0.8	10
51	Fabrication of direct Z-scheme black phosphorus nanosheets/ Ag_2CO_3 heterojunction photocatalyst with enhanced stability and visible light photocatalytic activity. <i>Journal of Materials Science</i> , 2021, 56, 8060-8078.	1.7	10
52	Configuration of Methylammonium Lead Iodide Perovskite Solar Cell and its Effect on the Device's Performance: A Review. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	10
53	Structure of flattened carbon nanotubes. <i>Carbon</i> , 2007, 45, 2938-2945.	5.4	9
54	Synthesis and characterization of ruthenium dioxide nanostructures. <i>Journal of Materials Science</i> , 2011, 46, 4803-4811.	1.7	9

#	ARTICLE	IF	CITATIONS
55	Influence of Substrate Temperature on Stress and Morphology Characteristics of Co Doped ZnO Films Prepared by Laser-Molecular Beam Epitaxy. <i>Journal of Materials Science and Technology</i> , 2013, 29, 1134-1138.	5.6	9
56	Solvothermal synthesis and structural characterization of unfilled and Yb-filled cobalt antimony skutterudite. <i>Crystal Research and Technology</i> , 2014, 49, 135-141.	0.6	8
57	Comparative study of electron field emission from randomly-oriented and vertically-aligned carbon nanotubes synthesized on stainless steel substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 041202.	0.6	8
58	Electrical Transport Properties of Multilayered Single-Walled Carbon Nanotube Films. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-5.	1.5	7
59	Density control of vertically aligned carbon nanotubes and its effect on field emission properties. <i>Materials Today Communications</i> , 2020, 22, 100761.	0.9	7
60	Quantitative Analysis of Trace Metals in Engine Oil Using Indirect Ablation-Laser Induced Breakdown Spectroscopy. <i>Journal of Applied Spectroscopy</i> , 2019, 86, 43-49.	0.3	6
61	Synthesis and field emission properties of Cu-filled vertically aligned carbon nanotubes. <i>Applied Surface Science</i> , 2021, 537, 148086.	3.1	6
62	Morphology, structure and Raman scattering of carbon nanotubes produced by using mesoporous materials. <i>Science in China Series A: Mathematics</i> , 1997, 40, 971-977.	0.5	5
63	Study of the Annealing Effect on the β -Phase Aluminum Oxide Films Prepared by the High-Vacuum MOCVD System. <i>Coatings</i> , 2021, 11, 389.	1.2	5
64	Carbon Nanotube Arrays: Synthesis, Properties, and Applications. , 2011, , 261-285.		4
65	Picosecond laser ablation and depth profile of Cu(In, Ga)Se ₂ thin film layer. <i>Optics Communications</i> , 2020, 462, 125369.	1.0	4
66	Superconductivity in ThMo ₂ Si ₂ C with Mo ₂ C square net. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	4
67	SnO ₂ Nanoparticles: Graphene-Skeleton Heat-Coordinated and Nanoamorphous-Surface-State Controlled Pseudo-Negative-Photoconductivity of Tiny SnO ₂ Nanoparticles (<i>Adv. Mater.</i> 23/2015). <i>Advanced Materials</i> , 2015, 27, 3579-3579.	11.1	3
68	Efficiency enhancement of perovskite solar cell by modifying the TiO ₂ with Ag/TiO ₂ core-shell nanowires. <i>Micro and Nano Letters</i> , 2019, 14, 1075-1078.	0.6	3
69	Large-scale preparation of dispersive carbon nanotubes by arc-discharge method. <i>Science in China Series A: Mathematics</i> , 1998, 41, 431-437.	0.5	2
70	Ni ₃ S ₂ nanowires filled carbon nanotubes of ultra-high quality: Synthesis methods, structure, and electrical properties. <i>Diamond and Related Materials</i> , 2022, 127, 109156.	1.8	2
71	Effects of Chlorine Addition to TiO ₂ Nanorods-Based Perovskite Solar Cells. <i>Nano</i> , 2019, 14, 1950077.	0.5	1
72	Rapid quantitative analysis and optical properties of ZCTO thin films based on picosecond laser-induced breakdown spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	1.1	1

#	ARTICLE	IF	CITATIONS
73	Matchstick-like carbon nanotube synthesis and structure. Applied Physics A: Materials Science and Processing, 2008, 90, 411-415.	1.1	0
74	Fabrication and electrical property of single-walled carbon nanotube films. , 2010, , .		0
75	Synthesis and electron field emission of vertically aligned carbon nanotubes grown on stainless steel substrate. , 2013, , .		0
76	Study on the effect of Sn concentration on the structural, optical, and electrical properties of $(Al_{0.55}In_{0.45})_2O_3$:Sn films. New Journal of Chemistry, 2021, 45, 4318-4325.	1.4	0