

Shancheng Yan

List of Publications by Year in descending order

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100
papers

1,513
citations

279798

23
h-index

395702

33
g-index

100
all docs

100
docs citations

100
times ranked

2754
citing authors

#	ARTICLE	IF	CITATIONS
1	Supercritical carbon dioxide-assisted rapid synthesis of few-layer black phosphorus for hydrogen peroxide sensing. <i>Biosensors and Bioelectronics</i> , 2016, 80, 34-38.	10.1	96
2	A scalable sulfuration of WS ₂ to improve cyclability and capability of lithium-ion batteries. <i>Nano Research</i> , 2016, 9, 857-865.	10.4	67
3	Accessing valley degree of freedom in bulk Tin(II) sulfide at room temperature. <i>Nature Communications</i> , 2018, 9, 1455.	12.8	56
4	GeO ₂ Encapsulated Ge Nanostructure with Enhanced Lithium-ion Storage Properties. <i>Advanced Functional Materials</i> , 2019, 29, 1807946.	14.9	53
5	Synthesis of uniform CdS nanowires in high yield and its single nanowire electrical property. <i>Journal of Solid State Chemistry</i> , 2009, 182, 2941-2945.	2.9	49
6	Simple Synthesis and Photoelectrochemical Characterizations of Polythiophene/Pd/TiO ₂ Composite Microspheres. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20197-20204.	8.0	49
7	RuO ₂ /carbon nanotubes composites synthesized by microwave-assisted method for electrochemical supercapacitor. <i>Synthetic Metals</i> , 2009, 159, 158-161.	3.9	43
8	Hierarchical Co-FeS ₂ /CoS ₂ heterostructures as a superior bifunctional electrocatalyst. <i>RSC Advances</i> , 2018, 8, 28684-28691.	3.6	41
9	Electrochemical biosensor based on CdS nanostructure surfaces. <i>Journal of Colloid and Interface Science</i> , 2012, 366, 130-134.	9.4	35
10	Direct electrochemical analysis of glucose oxidase on a graphene aerogel/gold nanoparticle hybrid for glucose biosensing. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 307-314.	2.5	33
11	High-Sensitive Ammonia Sensors Based on Tin Monoxide Nanoshells. <i>Nanomaterials</i> , 2019, 9, 388.	4.1	33
12	Facile solution synthesis of tin sulfide nanobelts for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2016, 681, 486-491.	5.5	32
13	Ultrafine Co:FeS ₂ /CoS ₂ Heterostructure Nanowires for Highly Efficient Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 514-520.	5.1	30
14	Large-scale synthesis of ZnSe nanoribbons on zinc substrate. <i>Journal of Crystal Growth</i> , 2009, 311, 3787-3791.	1.5	29
15	In situ reduction of WS ₂ nanosheets for WS ₂ /reduced graphene oxide composite with superior Li-ion storage. <i>Materials Chemistry and Physics</i> , 2016, 171, 16-21.	4.0	29
16	Ultraviolet electroluminescence from Au-ZnO nanowire Schottky type light-emitting diodes. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	27
17	Direct synthesis of porous carbon nanotubes and its performance as conducting material of supercapacitor electrode. <i>Diamond and Related Materials</i> , 2008, 17, 993-998.	3.9	26
18	Formation of Ag ₂ S nanowires and Ag ₂ S/CdS heterostructures via simple solvothermal route. <i>Synthetic Metals</i> , 2011, 161, 1646-1650.	3.9	26

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19	Ultrafast Carrier Dynamics and Efficient Triplet Generation in Black Phosphorus Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12972-12978.	3.1	26
20	Facile Sonication Synthesis of WS ₂ Quantum Dots for Photoelectrochemical Performance. <i>Catalysts</i> , 2017, 7, 18.	3.5	26
21	Reduced graphene oxide/gold nanoparticle aerogel for catalytic reduction of 4-nitrophenol. <i>RSC Advances</i> , 2016, 6, 64028-64038.	3.6	25
22	An efficient method for decoration of the multiwalled carbon nanotubes with nearly monodispersed magnetite nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009, 164, 191-194.	3.5	24
23	Fabrication of a reversible SnS ₂ /RGO nanocomposite for high performance lithium storage. <i>RSC Advances</i> , 2016, 6, 32414-32421.	3.6	24
24	Three-dimensional Architecture Enabled by Strained Two-dimensional Material Heterojunction. <i>Nano Letters</i> , 2018, 18, 1819-1825.	9.1	24
25	Controlled synthesis of NiS nanoparticle/CdS nanowire heterostructures via solution route and their optical properties. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013, 178, 109-116.	3.5	23
26	Solution-Based, Template-Assisted Realization of Large-Scale Graphitic ZnO. <i>ACS Nano</i> , 2018, 12, 7554-7561.	14.6	23
27	Stable black phosphorus quantum dots for alkali PH sensor. <i>Optics Communications</i> , 2018, 406, 91-94.	2.1	22
28	Preparation and lithium ion batteries properties of SnS ₂ nanoparticle/reduced graphene oxide nanosheet nanocomposites using supercritical carbon dioxide. <i>Synthetic Metals</i> , 2016, 217, 138-143.	3.9	21
29	Hydroxyl-Assisted Phosphorene Stabilization with Robust Device Performances. <i>Nano Letters</i> , 2020, 20, 81-87.	9.1	21
30	Synthesis of Ru/multiwalled carbon nanotubes by microemulsion for electrochemical supercapacitor. <i>Materials Research Bulletin</i> , 2008, 43, 2818-2824.	5.2	19
31	A simple route to large-scale synthesis of silver sulfide nanowires. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5559-5562.	3.1	18
32	Direct solution-phase synthesis of Se submicrotubes using Se powder as selenium source. <i>Materials Chemistry and Physics</i> , 2009, 114, 300-303.	4.0	18
33	Hydrothermal synthesis of CdS nanoparticle/functionalized graphene sheet nanocomposites for visible-light photocatalytic degradation of methyl orange. <i>Applied Surface Science</i> , 2013, 285, 840-845.	6.1	18
34	Developments in stability and passivation strategies for black phosphorus. <i>Nano Research</i> , 2021, 14, 4386-4397.	10.4	18
35	Ultra-Sensitive Dopamine Sensor Using Stable Black Phosphorus Quantum Dots. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 5762-5768.	0.9	17
36	Solution-based synthesis of ZnO nanoparticle/CdS nanowire heterostructure. <i>Journal of Alloys and Compounds</i> , 2011, 509, L239-L243.	5.5	16

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37	Production of SnS ₂ Nanostructure as Improved Light-Assisted Electrochemical Water Splitting. <i>Nanomaterials</i> , 2019, 9, 1244.	4.1	16
38	Multivariate Control of Effective Cobalt Doping in Tungsten Disulfide for Highly Efficient Hydrogen Evolution Reaction. <i>Scientific Reports</i> , 2019, 9, 1357.	3.3	16
39	Influences of cationic, anionic, and nonionic surfactants on alkaline-induced intermediate of bovine serum albumin. <i>International Journal of Biological Macromolecules</i> , 2010, 46, 91-99.	7.5	15
40	Scalable alignment and transfer of nanowires based on oriented polymer nanofibers. <i>Nanotechnology</i> , 2010, 21, 095303.	2.6	14
41	Novel regrowth mechanism of CdS nanowire in hydrothermal synthesis. <i>New Journal of Chemistry</i> , 2011, 35, 299.	2.8	14
42	Hydrothermal synthesis of CdS/functionalized graphene sheets nanocomposites. <i>Journal of Alloys and Compounds</i> , 2013, 570, 65-69.	5.5	14
43	Emotion Recognition Based on Double Tree Complex Wavelet Transform and Machine Learning in Internet of Things. <i>IEEE Access</i> , 2019, 7, 154114-154120.	4.2	14
44	In situ reaction synthesis of GeO ₂ /RGO nanocomposite for high performance lithium storage. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017, 225, 122-127.	3.5	14
45	Graphene Aerogel/Platinum Nanoparticle Nanocomposites for Direct Electrochemistry of Cytochrome c and Hydrogen Peroxide Sensing. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 12299-12306.	0.9	13
46	ZnO nanowire photodetectors based on Schottky contact with surface passivation. <i>Optics Communications</i> , 2017, 395, 72-75.	2.1	13
47	Facile Solvothermal Synthesis of Flowerlike SnS ₂ Nanosheets for Enhanced Lithium Ion Storage Property. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 5761-5769.	0.9	12
48	Solution-based synthesis of SnO ₂ nanoparticle/CdS nanowire heterostructures. <i>CrystEngComm</i> , 2011, 13, 4580.	2.6	11
49	Solvothermal Synthesis of Indium Telluride Nanowires and Its Photoelectrical Property. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3975-3980.	0.9	11
50	Fatigue EEG Feature Extraction Based on Tasks With Different Physiological States for Ubiquitous Edge Computing. <i>IEEE Access</i> , 2019, 7, 73057-73064.	4.2	11
51	Investigations of effects of environmental factors in unfolding/refolding pathway of proteins on 8-anilino-1-naphthalene-sulfonic acid (ANS) fluorescence. <i>Journal of Molecular Structure</i> , 2009, 936, 187-193.	3.6	10
52	Fabrication of C/Co-FeS ₂ /CoS ₂ with Highly Efficient Hydrogen Evolution Reaction. <i>Catalysts</i> , 2019, 9, 556.	3.5	10
53	Surface-roughness-assisted formation of large-scale vertically aligned CdS nanorod arrays via solvothermal method. <i>Applied Surface Science</i> , 2013, 273, 89-93.	6.1	9
54	Cysteine-Modified Graphene/Gold Nanorod Composites Toward Rhodamine 6G Detection by Surface-Enhanced Raman Scattering. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 6697-6704.	0.9	9

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55	Hydrothermal Synthesis of Polyhedral Nickel Sulfide by Dual Sulfur Source for Highly-Efficient Hydrogen Evolution Catalysis. <i>Nanomaterials</i> , 2020, 10, 2115.	4.1	8
56	Synthesis of Co ₂ FeAl alloys as highly efficient electrocatalysts for alkaline hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 13399-13408.	7.1	8
57	Controllable Edge Epitaxy of Helical GeSe/GeS Heterostructures. <i>Nano Letters</i> , 2022, 22, 5086-5093.	9.1	8
58	Synthesis of Copper Oxide Nanostructures with Controllable Morphology by Microwave-Assisted Method. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4886-4891.	0.9	7
59	Synthesis of silver sulfide nanowires in ethylene glycol through a sacrificial templating route. <i>Inorganic Materials</i> , 2009, 45, 193-197.	0.8	7
60	Indium telluride nanotubes: Solvothermal synthesis, growth mechanism, and properties. <i>Journal of Solid State Chemistry</i> , 2014, 211, 75-80.	2.9	7
61	Fabrication and Electrical Properties of Silver Telluride Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2628-2632.	0.9	7
62	A novel method for quantitatively predicting non-covalent interactions from protein and nucleic acid sequence. <i>Journal of Molecular Graphics and Modelling</i> , 2011, 31, 28-34.	2.4	6
63	Development of Biosensors Based on the One-Dimensional Semiconductor Nanomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6873-6879.	0.9	6
64	Fabrication of Graphene Aerogel/Platinum Nanoparticle Hybrids for the Direct Electrochemical Analysis of Glucose. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 6895-6902.	0.9	6
65	Porous Nano-Structured GeO ₂ for High Performance Lithium Storage. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 9036-9041.	0.9	6
66	Towards the Development of Sensors Based on Black Phosphorus. <i>Nanoscience and Nanotechnology Letters</i> , 2017, 9, 829-838.	0.4	6
67	Disposable Biosensor Based on Au Nanoparticles-Modified CdS Nanorod Arrays for Detection Cytochrome c. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 10320-10323.	0.9	5
68	Facile Solvothermal Synthesis of Hybrid SnS ₂ /Platinum Nanoparticles for Hydrogen Peroxide Biosensing. <i>Journal of Bionanoscience</i> , 2015, 9, 335-340.	0.4	5
69	Solution synthesis of stannous sulfide and stannic disulfide quantum dots for their optical and electronic properties. <i>Optics Communications</i> , 2018, 406, 239-243.	2.1	5
70	Solution-Based Synthesis of Layered Two-Dimensional Oxides as Broadband Emitters. <i>ACS Nano</i> , 2020, 14, 15544-15551.	14.6	5
71	Interfacial transport homogenization for nanowire ensemble photodiodes by using a tunneling insertion. <i>Applied Physics Letters</i> , 2013, 102, 103105.	3.3	4
72	Mechanism study for hypoxia induced differentiation of insulin-producing cells from umbilical cord blood-derived mesenchymal stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2015, 466, 444-449.	2.1	4

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73	Preparation and Photoelectrochemical Properties of CdS Nanoparticles Using Supercritical Carbon Dioxide. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 7203-7209.	0.9	4
74	Topotactic Growth of Free-Standing Two-Dimensional Perovskite Niobates with Low Symmetry Phase. <i>Nano Letters</i> , 2021, 21, 4700-4707.	9.1	4
75	Direct Electrochemistry of Cytochrome c on Graphene Aerogel/Gold Nanoparticle Hybrid for Hydrogen Peroxide Biosensing. <i>Journal of Bionanoscience</i> , 2015, 9, 330-334.	0.4	4
76	Enhanced Nonenzymatic Sensing of Hydrogen Peroxide Released from Living Cells Based on Graphene Aerogel/Platinum Nanoparticle. <i>Science of Advanced Materials</i> , 2016, 8, 1165-1171.	0.7	4
77	Easy Preparation and Photoelectrochemical Properties of CdS Nanoparticle/Graphene Nanosheet Nanocomposites Using Supercritical Carbon Dioxide. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2742-2751.	0.9	3
78	Effect of Co Doping on Electrocatalytic Performance of Co-NiS ₂ /CoS ₂ Heterostructures. <i>Nanomaterials</i> , 2021, 11, 1245.	4.1	3
79	Synthesis of Ag-Cu alloy nanosheets for ascorbic acid detection. <i>Materials Express</i> , 2021, 11, 1001-1006.	0.5	3
80	Large-scale synthesis of hierarchical-structured weissite (Cu ₂ xTe) flake arrays and their catalytic properties. <i>Materials Research Bulletin</i> , 2014, 51, 320-325.	5.2	2
81	The fabrication of Co:ZnS/CoS ₂ heterostructure nanowires with a superior hydrogen evolution performance. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2771-2778.	4.9	2
82	Improving hydrogen evolution performance of Co:FeS ₂ /CoS ₂ nano-heterostructure at elevated temperatures. <i>Materials Express</i> , 2019, 9, 786-791.	0.5	2
83	Fabrication of SnS ₂ /SnS Heterojunction with Enhanced Light-Assisted Electrochemical Water Splitting Performance. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 950-955.	0.9	2
84	Multi-Index Detection Electrochemical Biosensor Based on Graphene Aerogel/Platinum Nanoparticle Hybrid Materials. <i>Journal of Bionanoscience</i> , 2016, 10, 495-500.	0.4	2
85	High Yield CdS Nanowires Synthesized by Solvothermal Routes and Novel Diauxic Growth Mechanism. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 213-221.	0.4	1
86	Co-FeS ₂ /CoS ₂ Heterostructured Nanomaterials for pH Sensing. <i>Sensors</i> , 2020, 20, 5571.	3.8	1
87	Optical Properties of Tin Monoxide Nanoshells Prepared via Self-Assembly. <i>Nanoscience and Nanotechnology Letters</i> , 2017, 9, 1947-1952.	0.4	1
88	Optical Chirality of Helical Crystal Quantum Dots. <i>Nanoscience and Nanotechnology Letters</i> , 2018, 10, 988-992.	0.4	1
89	Near-Infrared Absorption by Gold Nanodisks on CdS Nanorods Array. <i>Science of Advanced Materials</i> , 2015, 7, 2679-2683.	0.7	1
90	One-dimensional nanowire assembly based on oriented polymer nanofibers. , 2011, , .		0

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91	Parallel assembly of CdS nanowires by blade-assisted method. , 2011, , .		0
92	Protein-Templated Assembly of CdS Nanowires on a Silicon Oxide Substrate. , 2012, , .		0
93	Development and Applications of the Heterostructures Synthesis Based on CdS Nanowires. Journal of Nanoscience and Nanotechnology, 2013, 13, 23-32.	0.9	0
94	Recognition of microRNA-binding sites in proteins from sequences using Laplacian Support Vector Machines with a hybrid feature. , 2013, , .		0
95	Scalable Alignment of CdS Nanowires Based on Efficient Roll-On Transfer Technique. Journal of Nanoscience and Nanotechnology, 2013, 13, 4242-4246.	0.9	0
96	Formation of Layer-Structured Black Phosphorus Nanocrystals during High-Speed Rotation of Two-Dimensional Amorphous Ultrathin Films. Crystal Growth and Design, 2017, 17, 5608-5613.	3.0	0
97	Preparation of SnO Nanoshells with Enhanced Lithium-Storage Properties. Journal of Nanoscience and Nanotechnology, 2020, 20, 1832-1837.	0.9	0
98	Fabrication of NiS ₂ Nanomaterials for Cd ²⁺ Sensing. Journal of Nanoscience and Nanotechnology, 2021, 21, 2117-2122.	0.9	0
99	In Search of Common Principles of Specific Binding Residues in Protein-Nucleic Acid Complexes. Advanced Science Letters, 2012, 10, 311-317.	0.2	0
100	Synthesis of NiS ₂ nanomaterial as wide range pressure sensor. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, 062807.	1.2	0