Ye Sun

List of Publications by Year
in descending order

70 papers	5,491 citations	101543 36 h-index	88630 70 g-index
70 all docs	70 docs citations	70 times ranked	8476 citing authors

#	Article	IF	Citations
1	One-step production of O-N-S co-doped three-dimensional hierarchical porous carbons for high-performance supercapacitors. Nano Energy, 2018, 47, 547-555.	16.0	547
2	Growth of aligned ZnO nanorod arrays by catalyst-free pulsed laser deposition methods. Chemical Physics Letters, 2004, 396, 21-26.	2.6	407
3	Three-dimensional scaffolding framework of porous carbon nanosheets derived from plant wastes for high-performance supercapacitors. Nano Energy, 2016, 27, 377-389.	16.0	391
4	Growth of ZnO thin filmsâ€"experiment and theory. Journal of Materials Chemistry, 2005, 15, 139-148.	6.7	364
5	Mechanism of ZnO Nanotube Growth by Hydrothermal Methods on ZnO Film-Coated Si Substrates. Journal of Physical Chemistry B, 2006, 110, 15186-15192.	2.6	269
6	Multifunctional Bismuth Selenide Nanocomposites for Antitumor Thermo-Chemotherapy and Imaging. ACS Nano, 2016, 10, 984-997.	14.6	234
7	Synthesis and photoluminescence of ultra-thin ZnO nanowire/nanotube arrays formed by hydrothermal growth. Chemical Physics Letters, 2006, 431, 352-357.	2.6	231
8	The kinetics of the hydrothermal growth of ZnO nanostructures. Thin Solid Films, 2007, 515, 8679-8683.	1.8	183
9	Multimodal Imaging-Guided Antitumor Photothermal Therapy and Drug Delivery Using Bismuth Selenide Spherical Sponge. ACS Nano, 2016, 10, 9646-9658.	14.6	175
10	Improved efficiency and stability of Pbâ€"Sn binary perovskite solar cells by Cs substitution. Journal of Materials Chemistry A, 2016, 4, 17939-17945.	10.3	151
11	Sulphur-doped carbon nanosheets derived from biomass as high-performance anode materials for sodium-ion batteries. Nano Energy, 2020, 67, 104219.	16.0	143
12	A Lowâ€Temperature, Solution Processable Tin Oxide Electronâ€Transporting Layer Prepared by the Dualâ€Fuel Combustion Method for Efficient Perovskite Solar Cells. Advanced Materials Interfaces, 2016, 3, 1600122.	3.7	107
13	Phaseâ€Transition Induced Conversion into a Photothermal Material: Quasiâ€Metallic WO_{2.9} Nanorods for Solar Water Evaporation and Anticancer Photothermal Therapy. Angewandte Chemie - International Edition, 2018, 57, 10666-10671.	13.8	104
14	Carbon dots-fed Shewanella oneidensis MR-1 for bioelectricity enhancement. Nature Communications, 2020, 11, 1379.	12.8	97
15	Dual-phase molybdenum nitride nanorambutans for solar steam generation under one sun illumination. Nano Energy, 2019, 57, 842-850.	16.0	96
16	Highly porous PEGylated Bi₂S₃nano-urchins as a versatile platform for in vivo triple-modal imaging, photothermal therapy and drug delivery. Nanoscale, 2016, 8, 16005-16016.	5.6	90
17	Biowaste-Derived Hierarchical Porous Carbon Nanosheets for Ultrahigh Power Density Supercapacitors. ChemSusChem, 2018, 11, 1678-1685.	6.8	90
18	A solution to break the salt barrier for high-rate sustainable solar desalination. Energy and Environmental Science, 2021, 14, 2451-2459.	30.8	87

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19	Nitrogen-doped carbon dots with excitation-independent long-wavelength emission produced by a room-temperature reaction. Chemical Communications, 2016, 52, 11912-11914.	4.1	83
20	Highly crystalline Zn₂SnO₄ nanoparticles as efficient electron-transporting layers toward stable inverted and flexible conventional perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 15294-15301.	10.3	82
21	Biocompatible PEGylated bismuth nanocrystals: â€œAll-in-oneâ€•theranostic agent with triple-modal imaging and efficient inÂvivo photothermal ablation of tumors. Biomaterials, 2017, 141, 284-295.	11.4	81
22	Sensitive Room Temperature Photoluminescence-Based Sensing of H₂S with Novel CuOâ€“ZnO Nanorods. ACS Applied Materials & Interfaces, 2016, 8, 16379-16385.	8.0	74
23	Enhanced pyroelectric property in (1â^’x)(Bi_{0.5}Na_{0.5})TiO₃-xBa(Zr_{0.055}Ti_{0.945})O₃ Role of morphotropic phase boundary and ferroelectric-antiferroelectric phase transition. Applied Physics Letters, 2013, 103, 182906.	3.3	72
24	Fluoroalkyl-substituted fullerene/perovskite heterojunction for efficient and ambient stable perovskite solar cells. Nano Energy, 2016, 30, 417-425.	16.0	71
25	Multifunctional Bi@PPy-PEG Coreâ€“Shell Nanohybrids for Dual-Modal Imaging and Photothermal Therapy. ACS Applied Materials & Interfaces, 2018, 10, 1605-1615.	8.0	71
26	Ultrahigh-sensitive optical temperature sensing based on ferroelectric Pr3+-doped (K0.5Na0.5)NbO3. Applied Physics Letters, 2016, 108, .	3.3	69
27	Thermoelectric properties of thin films of bismuth telluride electrochemically deposited on stainless steel substrates. Electrochimica Acta, 2011, 56, 4216-4223.	5.2	61
28	Design and mechanism of coreâ€“shell TiO₂ nanoparticles as a high-performance photothermal agent. Nanoscale, 2017, 9, 16183-16192.	5.6	61
29	Lowâ€Cost Highâ€Performance Zinc Antimonide Thin Films for Thermoelectric Applications. Advanced Materials, 2012, 24, 1693-1696.	21.0	60
30	Enhanced ethanol sensing properties of ultrathin ZnO nanosheets decorated with CuO nanoparticles. Sensors and Actuators B: Chemical, 2018, 255, 3384-3390.	7.8	55
31	Growth mechanisms for ZnO nanorods formed by pulsed laser deposition. Superlattices and Microstructures, 2006, 39, 33-40.	3.1	52
32	Porous Ultrathin NiSe Nanosheet Networks on Nickel Foam for Highâ€Performance Hybrid Supercapacitors. ChemSusChem, 2020, 13, 260-266.	6.8	50
33	SnSe@SnO₂ coreâ€“shell nanocomposite for synchronous photothermalâ€“photocatalytic production of clean water. Environmental Science: Nano, 2019, 6, 1507-1515.	4.3	45
34	Humanâ€Serumâ€Albuminâ€Coated Prussian Blue Nanoparticles as pHâ€/Thermotriggered Drugâ€Delivery Vehicles for Cancer Thermochemotherapy. Particle and Particle Systems Characterization, 2016, 33, 53-62.	2.3	42
35	Long-range ordered and atomic-scale control of graphene hybridization by photocycloaddition. Nature Chemistry, 2020, 12, 1035-1041.	13.6	41
36	Highly efficient photothermal sterilization of water mediated by Prussian blue nanocages. Environmental Science: Nano, 2018, 5, 1161-1168.	4.3	39

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37	Effects of Mn doping on multiferroic and magnetocapacitive properties of 0.33Ba0.70Ca0.30TiO3â€“0.67BiFeO3 diphasic ceramics. Journal of Alloys and Compounds, 2014, 590, 346-354.	5.5	38
38	Polyethylene glycol-modified cobalt sulfide nanosheets for high-performance photothermal conversion and photoacoustic/magnetic resonance imaging. Nano Research, 2018, 11, 2436-2449.	10.4	36
39	Hydrothermal Growth of ZnO Nanorods Aligned Parallel to the Substrate Surface. Journal of Physical Chemistry C, 2008, 112, 9234-9239.	3.1	34
40	UV photocatalytic activity of Au@ZnO coreâ€“shell nanostructure with enhanced UV emission. RSC Advances, 2015, 5, 65595-65599.	3.6	34
41	Enhanced Multiferroic and Magnetocapacitive Properties of (1Ââ^'Âx)<scp><scp>Ba</scp></scp>_{0.7}<scp><scp>Ca</scp></scp>_{0.3}<scp><scp>TiO</scp></scp> Ceramics. Journal of the American Ceramic Society, 2014, 97, 816-825.	3.8	30
42	Growth of nanostructured ZnO thin films on sapphire. Applied Physics A: Materials Science and Processing, 2007, 89, 49-55.	2.3	26
43	Photoluminescence from diameter-selected ZnO nanorod arrays. Nanotechnology, 2007, 18, 245701.	2.6	25
44	Thermoelectric Characteristics of Electrochemically Deposited Bi₂Te₃and Sb₂Te₃Thin Films of Relevance to Multilayer Preparation. Journal of the Electrochemical Society, 2011, 159, D50-D58.	2.9	25
45	Incident fluence dependent morphologies, photoluminescence and optical oxygen sensing properties of ZnO nanorods grown by pulsed laser deposition. Journal of Materials Chemistry C, 2015, 3, 2557-2562.	5.5	24
46	White-light-emitting properties of SrTiO₃:Pr³⁺ nanoparticles. RSC Advances, 2015, 5, 27491-27495.	3.6	24
47	Phase transition, microstructure and electrical properties of Fe doped Ba0.70Ca0.30TiO3 lead-free piezoelectric ceramics. Ceramics International, 2013, 39, 8701-8708.	4.8	22
48	Pr³⁺-Doped (K_{0.5}Na_{0.5})NbO₃ as a high response optical oxygen sensing agent. Journal of Materials Chemistry C, 2016, 4, 11508-11513.	5.5	22
49	Coreâ€“Shell Bi₂Se₃@mSiO₂â€PEG as a Multifunctional Drugâ€Delivery Nanoplatform for Synergistic Thermoâ€Chemotherapy with Infrared Thermal Imaging of Cancer Cells. Particle and Particle Systems Characterization, 2018, 35, 1700337.	2.3	22
50	Effect of incident fluence on the growth of ZnO nanorods by pulsed excimer laser deposition. Chemical Physics Letters, 2007, 447, 257-262.	2.6	21
51	Diameter-optimized high-order waveguide nanorods for fluorescence enhancement applied in ultrasensitive bioassays. Nanoscale, 2019, 11, 14322-14329.	5.6	21
52	ZnO Nanorod Array Grown on Ag Layer: A Highly Efficient Fluorescence Enhancement Platform. Scientific Reports, 2015, 5, 8152.	3.3	20
53	Xanthine Quartets on Au(111). Journal of the American Chemical Society, 2018, 140, 54-57.	13.7	20
54	Cobalt Phosphide Nanoparticles Applied as a Theranostic Agent for Multimodal Imaging and Anticancer Photothermal Therapy. Particle and Particle Systems Characterization, 2018, 35, 1800127.	2.3	20

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55	Rechargeable Mg-Ion Full Battery System with High Capacity and High Rate. ACS Applied Materials & Interfaces, 2021, 13, 40451-40459.	8.0	19
56	Ultrafast plasmonic lasing from a metal/semiconductor interface. Nanoscale, 2020, 12, 16403-16408.	5.6	18
57	Growth of arrays of Al-doped ZnO nanocones by pulsed laser deposition. Nanotechnology, 2007, 18, 495601.	2.6	17
58	Orientation control and thermoelectric properties of FeSb₂ films. Journal Physics D: Applied Physics, 2010, 43, 205402.	2.8	14
59	Toward a Single ZnO Nanowire Homojunction. Journal of Physical Chemistry C, 2010, 114, 21338-21341.	3.1	12
60	Hierarchical porous graphitic carbon for high-performance supercapacitors at high temperature. RSC Advances, 2017, 7, 34488-34496.	3.6	12
61	Onâ€Surface Decarboxylation Coupling Facilitated by Lockâ€toâ€Unlock Variation of Molecules upon the Reaction. Angewandte Chemie - International Edition, 2021, 60, 17435-17439.	13.8	12
62	Growth and thermoelectric properties of FeSb2 films produced by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2011, 104, 883-887.	2.3	9
63	Enhanced Antibacterial Activity of Ag Nanoparticle-Decorated ZnO Nanorod Arrays. Journal of Nanomaterials, 2019, 2019, 1-7.	2.7	9
64	Antibacterial Agâ€“SiO2 composite films synthesized by pulsed laser deposition. Materials Letters, 2014, 130, 79-82.	2.6	8
65	Labeling efficiency and toxicity evaluation of CdSe/ZnS quantum dots on Escherichia coli. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	6
66	Pulsed laser deposition growth of FeSb2 films for thermoelectric applications. Materials Chemistry and Physics, 2011, 129, 105-108.	4.0	5
67	The radiation hardness properties of Î³-ray for SOD circuits fabricated on 4-inch SOD wafer. Diamond and Related Materials, 2002, 11, 405-407.	3.9	3
68	Fabrication and optical properties of thin silicaâ€coated CdSe/ZnS quantum dots. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2822-2825.	1.8	3
69	An efficient dual functional Raman and Fluorescence detection platform achieved by controlling the electromagnetic enhanced field in three-dimensional Ag/ZnO composited arrays. Materials Advances, 2022, 3, 4520-4525.	5.4	3
70	Onâ€Surface Decarboxylation Coupling Facilitated by Lockâ€toâ€Unlock Variation of Molecules upon the Reaction. Angewandte Chemie, 2021, 133, 17575-17579.	2.0	2