

Wen Chen

List of Publications by Year in descending order

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74
papers

1,845
citations

293460

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76
all docs

76
docs citations

76
times ranked

3203
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved open-circuit voltage of CsPbI ₃ quantum dot solar cells by PMMA interlayer. Journal of Alloys and Compounds, 2022, 891, 161985.	2.8	6
2	Construction of a Bismuthene/CsPbBr ₃ Quantum Dot S-Scheme Heterojunction and Enhanced Photocatalytic CO ₂ Reduction. Journal of Physical Chemistry C, 2022, 126, 3087-3097.	1.5	16
3	Novel High-Performance and Low-Cost Electrochromic Prussian White Film. ACS Applied Materials & Interfaces, 2022, 14, 8157-8162.	4.0	14
4	COF@CoAl-LDH Nanocomposite Heterojunction for Enhanced Visible-Light-Driven CO ₂ Reduction. ChemSusChem, 2022, 15, .	3.6	10
5	Density Functional Investigation on Î±-MoO ₃ (100): Amines Adsorption and Surface Chemistry. ACS Sensors, 2022, 7, 1213-1221.	4.0	6
6	Polymer Tape-Assisted Ball-Milling Method Fabrication Few-Atomic-Layered Bismuth for Improving K ⁺ /Na ⁺ Storage. Energy and Environmental Materials, 2021, 4, 421-427.	7.3	11
7	Berlin Green Framework-Based Gas Sensor for Room-Temperature and High-Selectivity Detection of Ammonia. Nano-Micro Letters, 2021, 13, 63.	14.4	21
8	PdOx decorated Co ₃ O ₄ nanosheets-assembled hollow microcages for enhanced ethanol sensing performance. Sensors and Actuators B: Chemical, 2021, 333, 129583.	4.0	25
9	Thermally induced transitions and depolarization of Fe ₂ O ₃ doped PMnS-PZN-PZT piezoelectric ceramics. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	3
10	Significant SRS sensing behavior of hydrothermally silver decorated sandwiched-like vanadia (Ag@V ₂ O ₅) nanosheets toward ethanol. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	2
11	Enhancement of photocatalytic CO ₂ reduction for novel Cd _{0.2} Zn _{0.8} S@Ti ₃ C ₂ (MXenes) nanocomposites. Journal of CO ₂ Utilization, 2021, 47, 101501.	3.3	35
12	A Three-Dimensional Surface Layer and a Composite Aphroid Layer Constructed by a Facile Rolling Method for High-Performance Li Metal Anodes. ACS Applied Energy Materials, 2021, 4, 8108-8116.	2.5	8
13	Low-coordination water Prussian white as cathode for high-performance potassium-ion batteries. Chinese Chemical Letters, 2021, 32, 2433-2437.	4.8	14
14	Efficient Photocatalytic CO ₂ Reduction by the Construction of Ti ₃ C ₂ /CsPbBr ₃ QD Composites. ACS Applied Energy Materials, 2021, 4, 9154-9165.	2.5	19
15	Cs ₂ AgInCl ₆ double perovskite quantum dots decorated with Ag nanoparticles for photocatalytic CO ₂ reduction. Sustainable Energy and Fuels, 2021, 5, 3598-3605.	2.5	21
16	Boosting the Electrochemical Performance of Li _{1.2} Ni _{0.13} Co _{0.13} Mn _{0.54} O ₂ by Rough Coating with the Superionic Conductor Li ₇ La ₃ Zr ₂ O ₁₂ . ACS Applied Materials & Interfaces, 2021, 13, 54916-54923.	4.0	20
17	High ammonia sensitive ability of novel Cu ₁₂ Sb ₄ S ₁₃ quantum dots@reduced graphene oxide nanosheet composites at room temperature. Chinese Chemical Letters, 2020, 31, 2109-2114.	4.8	10
18	Low-cost carbon materials as anode for high-performance potassium-ion batteries. Materials Letters, 2020, 262, 127147.	1.3	10

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19	Resistive-switching tunability with size-dependent all-inorganic zero-dimensional tetrahedrite quantum dots. <i>Science China Materials</i> , 2020, 63, 2497-2508.	3.5	3
20	Three-dimensional Hierarchical Framework Loaded with Lithiophilic Nanorod Arrays for High-performance Lithium-metal Anodes. <i>ChemElectroChem</i> , 2020, 7, 4201-4207.	1.7	3
21	Recent advances in OD nanostructure-functionalized low-dimensional nanomaterials for chemiresistive gas sensors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7272-7299.	2.7	35
22	High-field nonlinear properties and characteristics of domain wall motion in Fe_2O_3 doped PMnS-PZN-PZT ceramics. <i>Ferroelectrics</i> , 2020, 560, 110-122.	0.3	4
23	Low-cost lignite-derived hard carbon for high-performance sodium-ion storage. <i>Journal of Materials Science</i> , 2020, 55, 5994-6004.	1.7	7
24	Flexible electrochromic thin films with ultrafast response based on exfoliated V_2O_5 nanosheets/graphene oxide via layer-by-layer assembly. <i>Applied Surface Science</i> , 2020, 514, 145950.	3.1	23
25	N-Doped carbon coated bismuth nanorods with a hollow structure as an anode for superior-performance potassium-ion batteries. <i>Nanoscale</i> , 2020, 12, 4309-4313.	2.8	41
26	The electrochemical property and crystal structure of $\text{Li}_{1+x}\text{Ni}_{0.45}\text{Co}_{0.1}\text{Mn}_{0.45}\text{O}_2$ ($0.05 \leq x \leq 0.4$) cathode materials under 4.6V cut-off. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154489.	2.8	3
27	$\text{Cu}_{12}\text{Sb}_4\text{S}_{13}$ Quantum Dots with Ligand Exchange as Hole Transport Materials in All-Inorganic Perovskite CsPbI_3 Quantum Dot Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 3521-3529.	2.5	29
28	Ordered mesoporous carbon-supported mono-dispersed Co and Ru-Co catalysts for low-temperature CO_2 methanation. <i>Functional Materials Letters</i> , 2020, 13, 2051019.	0.7	1
29	The phase definition and electrochemical property of cobalt-oxide nanoclusters supported on structured carbons. <i>Materials Letters</i> , 2020, 271, 127788.	1.3	3
30	Three-dimensional hollow reduced graphene oxide spheres with a hierarchically porous structure for high-performance lithium-sulfur batteries. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2528-2538.	3.0	7
31	Ag-functionalized exfoliated V_2O_5 nanosheets: a flexible and binder-free cathode for lithium-ion batteries. <i>Journal of Materials Science</i> , 2019, 54, 12713-12722.	1.7	19
32	Fabrication and electrochemical properties of well-dispersed molybdenum oxide nanoparticles into nitrogen-doped ordered mesoporous carbons for supercapacitors. <i>Materials Research Express</i> , 2019, 6, 105088.	0.8	3
33	Synthesis of monodispersed CoMoO_4 nanoclusters on the ordered mesoporous carbons for environment-friendly supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151841.	2.8	28
34	Bandgap aligned $\text{Cu}_{12}\text{Sb}_4\text{S}_{13}$ quantum dots as efficient inorganic hole transport materials in planar perovskite solar cells with enhanced stability. <i>Sustainable Energy and Fuels</i> , 2019, 3, 831-840.	2.5	17
35	Controlling the growth of ultrathin MoS_2 nanosheets/ CdS nanoparticles by two-step solvothermal synthesis for enhancing photocatalytic activities under visible light. <i>Applied Surface Science</i> , 2019, 480, 1078-1088.	3.1	56
36	Short-chain Ligand-passivated Stable CsPbI_3 Quantum Dot for All-inorganic Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1900991.	7.8	216

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37	Direct spectroscopic evidence on the photocatalytic activities of different ZnO crystal facets toward photo-induced decomposition of CH ₂ O. <i>Applied Surface Science</i> , 2019, 478, 62-67.	3.1	12
38	Enhanced photocatalytic properties of TiO ₂ nanosheets@2D layered black phosphorus composite with high stability under hydro-oxygen environment. <i>Nanoscale</i> , 2019, 11, 5674-5683.	2.8	45
39	Acidic Site-Assisted Ammonia Sensing of Novel CuSbS ₂ Quantum Dots/Reduced Graphene Oxide Composites with an Ultralow Detection Limit at Room Temperature. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9573-9582.	4.0	49
40	Sodium vanadate nanoflowers/rGO composite as a high-rate cathode material for sodium-ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 7032-7039.	1.1	7
41	Tunability of photo-catalytic selectivity of B-doped anatase TiO ₂ microspheres in the visible light. <i>Dyes and Pigments</i> , 2018, 156, 213-218.	2.0	22
42	ppb level ammonia detection of 3-D PbS quantum dots/reduced graphene oxide nanococoons at room temperature and Schottky barrier modulated behavior. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2979-2987.	4.0	19
43	Surface Decorated Zn _{0.15} Cd _{0.85} S Nanoflowers with P25 for Enhanced Visible Light Driven Photocatalytic Degradation of Rh-B and Stability. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 327.	1.3	5
44	Surface reactions of CH ₃ OH, NH ₃ and CO on ZnO nanorod arrays film: DFT investigation for gas sensing selectivity mechanism. <i>Applied Surface Science</i> , 2018, 457, 975-980.	3.1	21
45	Preparation of MoO ₂ nanoparticles/rGO nanocomposites and their high electrochemical properties for lithium ion batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1740-1749.	1.1	10
46	Growth kinetics and mechanisms of multinary copper-based metal sulfide nanocrystals. <i>Nanoscale</i> , 2017, 9, 12470-12478.	2.8	26
47	Stabilization of Ferroelectric Order in Bi _{1/2} (Na _{0.8} K _{0.2}) _{1/2} TiO ₃ Lead-Free Ceramics with Fe Doping. <i>Journal of Electronic Materials</i> , 2017, 46, 6167-6174.	1.0	12
48	Manganese Oxide Nanoparticles Decorated Ordered Mesoporous Carbon Electrode for Capacitive Deionization of Brackish Water. <i>Journal of the Electrochemical Society</i> , 2017, 164, E505-E511.	1.3	28
49	Investigation on the Transformation of Absorbed Oxygen at ZnO {101̄...0} Surface Based on a Novel Thermal Pulse Method and Density Functional Theory Simulation. <i>ACS Sensors</i> , 2017, 2, 1051-1059.	4.0	15
50	Mn doped CdS passivated CuInSe ₂ quantum dot sensitized solar cells with remarkably enhanced photovoltaic efficiency. <i>RSC Advances</i> , 2017, 7, 33106-33112.	1.7	16
51	Morphologies controllable synthesis of MoS ₂ by hot-injection method: from quantum dots to nanosheets. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 13633-13637.	1.1	6
52	High sensitivity and good selectivity of ultralong MoO ₃ nanobelts for trimethylamine gas. <i>Sensors and Actuators B: Chemical</i> , 2016, 226, 478-485.	4.0	215
53	Influence of surface states of CuInS ₂ quantum dots in quantum dots sensitized photo-electrodes. <i>Applied Surface Science</i> , 2016, 388, 437-443.	3.1	12
54	A green synthesis route for the phase and size tunability of copper antimony sulfide nanocrystals with high yield. <i>Nanoscale</i> , 2016, 8, 5146-5152.	2.8	54

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55	Size-dependent photoluminescence dynamics of CuInS ₂ quantum dots and charge injection on titanium oxide film. <i>Journal of Alloys and Compounds</i> , 2016, 658, 76-84.	2.8	17
56	Size-Dependent Synthesis of Cu ₁₂ Sb ₄ S ₁₃ Nanocrystals with Bandgap Tunability. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 999-1005.	1.2	35
57	Enhanced ultra-stable n-propylamine sensing behavior of V ₂ O ₅ /In ₂ O ₃ core-shell nanorods. <i>RSC Advances</i> , 2015, 5, 54412-54419.	1.7	21
58	CuInS ₂ /Mn-CdS quantum dot co-sensitized flexible solar cells based on single fibrous TiO ₂ nanowire arrays. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 2016-2024.	1.1	6
59	Synthesis of vanadium pentoxide nanoneedles by physical vapour deposition and their highly sensitive behavior towards acetone at room temperature. <i>RSC Advances</i> , 2015, 5, 23489-23497.	1.7	38
60	Enhanced gas sensing properties of V ₂ O ₅ nanowires decorated with SnO ₂ nanoparticles to ethanol at room temperature. <i>RSC Advances</i> , 2015, 5, 41050-41058.	1.7	47
61	Synthesis and electrochemical properties of ordered mesoporous carbon supported well-dispersed cobalt oxide nanoparticles for supercapacitor. <i>Materials Research Bulletin</i> , 2015, 64, 55-60.	2.7	16
62	ZnSe passivation layer for the efficiency enhancement of CuInS ₂ quantum dots sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2014, 587, 613-617.	2.8	29
63	Effect of polyethylene glycol on vanadium oxide nanotubes in lithium-ion batteries. <i>Microelectronic Engineering</i> , 2014, 127, 81-85.	1.1	15
64	Enhanced visible photocatalytic activity of Cu ₂ O nanocrystal/titanate nanobelt heterojunctions by a self-assembly process. <i>RSC Advances</i> , 2014, 4, 24363-24368.	1.7	21
65	Influence of interface combination of reduced graphene oxide/P25 composites on their visible photocatalytic performance. <i>RSC Advances</i> , 2014, 4, 43760-43765.	1.7	12
66	Fabrication of TiO ₂ nanotube arrays and their application in flexible dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 45592-45597.	1.7	14
67	Photoelectrochemical behavior of TiO ₂ nanorod arrays decorated with CuInS ₂ quantum dots. <i>Applied Surface Science</i> , 2014, 292, 514-519.	3.1	9
68	Efficiency enhancement of CuInS ₂ quantum dot sensitized TiO ₂ photo-anodes for solar cell applications. <i>Chemical Physics Letters</i> , 2013, 586, 85-90.	1.2	31
69	Synthesis of Various Sized CuInS ₂ Quantum Dots and Their Photovoltaic Properties as Sensitizers for TiO ₂ Photoanodes. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5239-5244.	1.0	42
70	Self-assembly of Pt nanocrystals/one-dimensional titanate nanobelts heterojunctions and their great enhancement of photocatalytic activities. <i>CrystEngComm</i> , 2011, 13, 5467.	1.3	22
71	Hydrothermal synthesis of porous TiO ₂ microspheres and their photocatalytic degradation of gaseous benzene. <i>Chemical Engineering Journal</i> , 2011, 170, 53-58.	6.6	48
72	Field emission properties of one-dimensional single CuO nanoneedle by in situ microscopy. <i>Journal of Materials Science</i> , 2010, 45, 3791-3796.	1.7	27

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73	Field Emission from V_2O_5 Nanorod Arrays. Journal of Physical Chemistry C, 2008, 112, 2262-2265.	1.5	31
74	Synthesis and Field Emission Property of V_2O_5 Nanotube Arrays. Journal of Physical Chemistry C, 2007, 111, 8202-8205.	1.5	40