

Huawei Zhou

List of Publications by Year in descending order

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49
papers

1,483
citations

361413

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52
docs citations

52
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Hole-Conductor-Free, Metal-Electrode-Free TiO ₂ /CH ₃ NH ₃ PbI ₃ Heterojunction Solar Cells Based on a Low-Temperature Carbon Electrode. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3241-3246.	4.6	258
2	Low-Temperature Processed and Carbon-Based ZnO/CH ₃ NH ₃ PbI ₃ /C Planar Heterojunction Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4600-4605.	3.1	153
3	Notable catalytic activity of oxygen-vacancy-rich WO _{2.72} nanorod bundles as counter electrodes for dye-sensitized solar cells. <i>Chemical Communications</i> , 2013, 49, 7626.	4.1	76
4	Carbon Counter Electrodes in Dye-Sensitized and Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 1906451.	14.9	74
5	Economical hafnium oxygen nitride binary/ternary nanocomposite counter electrode catalysts for high-efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1341-1348.	10.3	65
6	Earth-abundant and nano-micro composite catalysts of Fe ₃ O ₄ @reduced graphene oxide for green and economical mesoscopic photovoltaic devices with high efficiencies up to 9%. <i>Journal of Materials Chemistry A</i> , 2016, 4, 67-73.	10.3	65
7	Surface Oxygen Vacancy-Dependent Electrocatalytic Activity of W ₁₈ O ₄₉ Nanowires. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20100-20106.	3.1	62
8	Interlaced W ₁₈ O ₄₉ nanofibers as a superior catalyst for the counter electrode of highly efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4347-4354.	10.3	58
9	Layered and Pb-Free Organic-Inorganic Perovskite Materials for Ultraviolet Photoresponse: (010)-Oriented (CH ₃ NH ₃) ₂ MnCl ₄ Thin Film. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28187-28193.	8.0	54
10	Antisolvent diffusion-induced growth, equilibrium behaviours in aqueous solution and optical properties of CH ₃ NH ₃ PbI ₃ single crystals for photovoltaic applications. <i>RSC Advances</i> , 2015, 5, 85344-85349.	3.6	38
11	Hollow carbon spheres with artificial surface openings as highly effective supercapacitor electrodes. <i>Electrochimica Acta</i> , 2019, 298, 552-560.	5.2	37
12	Indium- and Platinum-Free Counter Electrode for Green Mesoscopic Photovoltaics through Graphene Electrode and Graphene Composite Catalysts: Interfacial Compatibility. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5314-5319.	8.0	33
13	Band-Gap Tuning of Organic-Inorganic Hybrid Palladium Perovskite Materials for a Near-Infrared Optoelectronics Response. <i>ACS Omega</i> , 2018, 3, 13960-13966.	3.5	29
14	Tuning Ni-Foam into NiOOH/FeOOH Heterostructures toward Superior Water Oxidation Catalyst via Three-Step Strategy. <i>ACS Omega</i> , 2018, 3, 11009-11017.	3.5	29
15	Printable fabrication of Pt-and-ITO free counter electrodes for completely flexible quasi-solid dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3932.	10.3	28
16	Lead-free and amorphous organic-inorganic hybrid materials for photovoltaic applications: mesoscopic CH ₃ NH ₃ MnI ₃ /TiO ₂ heterojunction. <i>RSC Advances</i> , 2017, 7, 37419-37425.	3.6	24
17	Edge/Defect-Rich, Metallic, and Oxygen-Heteroatom-Doped WS ₂ Superstructure with Superior Electrocatalytic Performance for Green Solar Energy Conversion. <i>ChemSusChem</i> , 2019, 12, 795-800.	6.8	23
18	Design bifunctional nitrogen doped flexible carbon sphere electrode for dye-sensitized solar cell and supercapacitor. <i>Electrochimica Acta</i> , 2020, 334, 135582.	5.2	23

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19	Highly Effective 2D Layer Structured Titanium Carbide Electrode for Dye-Sensitized and Perovskite Solar Cells. <i>ChemElectroChem</i> , 2020, 7, 1149-1154.	3.4	22
20	Earth-abundant and environment friendly organic-inorganic hybrid tetrachloroferrate salt $\text{CH}_3\text{NH}_3\text{FeCl}_4$: structure, adsorption properties and photoelectric behavior. <i>RSC Advances</i> , 2018, 8, 19958-19963.	3.6	21
21	Low defects, large area and high stability of all-inorganic lead halide perovskite CsPbBr_3 thin films with micron-grains via heat-spraying process for self-driven photodetector. <i>RSC Advances</i> , 2018, 8, 29089-29095.	3.6	21
22	Hierarchical mesoporous MoO_2 sphere as highly effective supercapacitor electrode. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 102, 212-217.	5.3	20
23	Polydopamine-Derived, In Situ Doped 3D Mesoporous Carbons for Highly Efficient Oxygen Reduction. <i>ChemNanoMat</i> , 2018, 4, 417-422.	2.8	19
24	Synthesis, Crystal Structure, UV-Vis Adsorption Properties, Photoelectric Behavior, and DFT Computational Study of All-Inorganic and Lead-Free Copper Halide Salt $\text{K}_2\text{Cu}_2\text{Cl}_6$. <i>ACS Omega</i> , 2018, 3, 14021-14026.	3.5	17
25	FeS_2 crystal lattice promotes the nanostructure and enhances the electrocatalytic performance of WS_2 nanosheets for the oxygen evolution reaction. <i>Dalton Transactions</i> , 2020, 49, 9804-9810.	3.3	17
26	Encapsulation of UV Glue, Hydrophobicity of Binder and Carbon Electrode Enhance the Stability of Organic-Inorganic Hybrid Perovskite Solar Cells up to 5 Years. <i>Energy Technology</i> , 2020, 8, 2000513.	3.8	17
27	A novel composite of $\text{W}_{18}\text{O}_{49}$ nanorods on reduced graphene oxide sheets based on in situ synthesis and catalytic performance for oxygen reduction reaction. <i>RSC Advances</i> , 2017, 7, 2051-2057.	3.6	16
28	Economically viable V_2O_3 @activated carbon composite materials as counter electrodes for dye sensitized solar cells by single step reduction. <i>Journal of Electroanalytical Chemistry</i> , 2019, 835, 150-155.	3.8	15
29	Synthesis, crystal structure, absorption properties, photoelectric behavior of organic-inorganic hybrid $(\text{CH}_3\text{NH}_3)_2\text{CoCl}_4$. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4795.	3.5	15
30	Organic-inorganic hybrid $(\text{CH}_3\text{NH}_3)_2\text{FeCu}_4\text{Cl}_2$ and $(\text{CH}_3\text{NH}_3)_2\text{InCu}_6$ for ultraviolet light photodetectors. <i>Chemical Communications</i> , 2020, 56, 1875-1878.	4.1	15
31	Design bifunctional vanadium carbide embedded in mesoporous carbon electrode for supercapacitor and dye-sensitized solar cell. <i>Solar Energy</i> , 2020, 206, 848-854.	6.1	15
32	From two-dimensional graphene oxide to three-dimensional honeycomb-like Ni_3S_2 @graphene oxide composite: insight into structure and electrocatalytic properties. <i>Royal Society Open Science</i> , 2017, 4, 171409.	2.4	14
33	Earth-abundant $\text{Fe}^{1-x}\text{S}@S$ -doped graphene oxide nano-micro composites as high-performance cathode catalysts for green solar energy utilization: fast interfacial electron exchange. <i>RSC Advances</i> , 2018, 8, 4340-4347.	3.6	13
34	2D Schottky Junction between Graphene Oxide and Transition-Metal Dichalcogenides: Photoresponsive Properties and Electrocatalytic Performance. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801657.	3.7	13
35	Synthesis, crystal structure and photoresponse of tetragonal phase single crystal $\text{CH}_3\text{NH}_3\text{PbCl}_3$. <i>Chemical Communications</i> , 2020, 56, 6404-6407.	4.1	13
36	Synthesis, Crystal Structure and Photoelectric Response of All-Inorganic Copper Halide Salts CsCuCl_3 . <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2165-2169.	2.0	12

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37	Fixation of CO ₂ along with bromopyridines on a silver electrode. Royal Society Open Science, 2018, 5, 180897.	2.4	10
38	A flexible 3-D structured carbon molecular sieve@PEDOT composite electrode for supercapacitor. Journal of Electroanalytical Chemistry, 2018, 826, 191-197.	3.8	9
39	One Simple Strategy towards Nitrogen and Oxygen Codoped Carbon Nanotube for Efficient Electrocatalytic Oxygen Reduction and Evolution. Catalysts, 2019, 9, 159.	3.5	9
40	Surface self-reconstructed amorphous/crystalline hybrid iron disulfide for high-efficiency water oxidation electrocatalysis. Dalton Transactions, 2021, 50, 6333-6342.	3.3	9
41	High electrocatalytic activity of W ₁₈ O ₄₉ nanowires for cobalt complex and ferrocenium redox mediators. RSC Advances, 2014, 4, 42190-42196.	3.6	7
42	Semi-Transparent and Stable Solar Cells for Building Integrated Photovoltaics: The Confinement Effects of the Polymer Gel Electrolyte inside Mesoporous Films. ACS Omega, 2019, 4, 15097-15100.	3.5	3
43	Synthesis, structure, mobility and memristor properties of tetragonal CH ₃ NH ₃ PbBr ₃ perovskite single crystals. Dalton Transactions, 2021, 50, 10365-10368.	3.3	3
44	Growth, structural, optical and electronic transport properties of tetragonal CH ₃ NH ₃ SnBr ₃ perovskite single crystals. Dalton Transactions, 2022, 51, 4623-4626.	3.3	3
45	PEDOT@4A Molecular Sieve Composite Electrode for Supercapacitor. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900188.	1.8	2
46	Metallized Ni(OH) ₂ ·NiO/FeOOH on Ni Foam as a Highly Effective Water Oxidation Catalyst Prepared by Surface Treatment: Oxidation-Corrosion Equilibrium. ACS Applied Energy Materials, 2021, 4, 5599-5605.	5.1	2
47	Wide Band Gap Organic-Inorganic Hybrid (CH ₃ NH ₃) ₂ HgCl ₄ as Self-Driven Ultraviolet Photodetector and Photoconductor. Applied Organometallic Chemistry, 2020, 34, e5982.	3.5	1
48	Face-Type Coupling as an Ideal Interface Synergy between the Nb ₂ O ₅ Crystal Lattice and Graphene for Energy Conversion. ChemistrySelect, 2020, 5, 2508-2515.	1.5	1
49	Temperature Sensitive and Reversible Halide Ion Exchange in Inorganic-Organic Hybrid CH ₃ NH ₃ PbI ₃ ~xBrx Mixed-Halide Perovskite. Journal of Nanoelectronics and Optoelectronics, 2021, 16, 670-674.	0.5	0