Yong Yan

List of Publications by Year
in descending order

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48	5,867	201674	223800
papers	citations	27	46
		h-index	g-index

48	48	48	9743
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Light-Driven Heterogeneous Reduction of Carbon Dioxide: Photocatalysts and Photoelectrodes. Chemical Reviews, 2015, 115, 12888-12935.	47.7	1,386
2	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	14.6	705
3	Low surface recombination velocity in solution-grown CH3NH3PbBr3 perovskite single crystal. Nature Communications, 2015, 6, 7961.	12.8	406
4	Top and bottom surfaces limit carrier lifetime in lead iodide perovskite films. Nature Energy, 2017, 2, .	39.5	376
5	Production and catalytic transformation of levulinic acid: A platform for speciality chemicals and fuels. Renewable and Sustainable Energy Reviews, 2015, 51, 986-997.	16.4	291
6	Lead halide perovskites for photocatalytic organic synthesis. Nature Communications, 2019, 10, 2843.	12.8	263
7	Lead-Halide Perovskites for Photocatalytic Î±-Alkylation of Aldehydes. Journal of the American Chemical Society, 2019, 141, 733-738.	13.7	263
8	Water reduction by a p-GaInP2 photoelectrode stabilized by an amorphous TiO2 coating and a molecular cobalt catalyst. Nature Materials, 2016, 15, 456-460.	27.5	215
9	Multiple exciton generation for photoelectrochemical hydrogen evolution reactions with quantum yields exceeding 100%. Nature Energy, 2017, 2, .	39.5	172
10	Electrochemistry of Aqueous Pyridinium: Exploration of a Key Aspect of Electrocatalytic Reduction of CO₂ to Methanol. Journal of the American Chemical Society, 2013, 135, 14020-14023.	13.7	152
11	Electronic Structure and Optical Properties of Î±-CH₃NH₃PbBr₃ Perovskite Single Crystal. Journal of Physical Chemistry Letters, 2015, 6, 4304-4308.	4.6	136
12	Exfoliated 2D Transition Metal Disulfides for Enhanced Electrocatalysis of Oxygen Evolution Reaction in Acidic Medium. Advanced Materials Interfaces, 2016, 3, 1500669.	3.7	136
13	p-Type CuRhO₂ as a Self-Healing Photoelectrode for Water Reduction under Visible Light. Journal of the American Chemical Society, 2014, 136, 830-833.	13.7	135
14	A graded catalyticâ€“protective layer for an efficient and stable water-splitting photocathode. Nature Energy, 2017, 2, .	39.5	135
15	Nanoscale simultaneous chemical and mechanical imaging via peak force infrared microscopy. Science Advances, 2017, 3, e1700255.	10.3	115
16	Space-Confined Earth-Abundant Bifunctional Electrocatalyst for High-Efficiency Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 36762-36771.	8.0	114
17	Recent Progress in Engineering Metal Halide Perovskites for Efficient Visibleâ€Lightâ€Driven Photocatalysis. ChemSusChem, 2020, 13, 4005-4025.	6.8	79
18	Assembly of g-C₃N₄-based type II and Z-scheme heterojunction anodes with improved charge separation for photoelectrojunction water oxidation. Physical Chemistry Chemical Physics, 2017, 19, 4507-4515.	2.8	67

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19	Ultrafast Reaction Mechanisms in Perovskite Based Photocatalytic Câ€“C Coupling. ACS Energy Letters, 2020, 5, 566-571.	17.4	61
20	Monoanionic Molybdenum and Tungsten Tris(dithiolene) Complexes: A Multifrequency EPR Study. Inorganic Chemistry, 2011, 50, 7106-7122.	4.0	55
21	Plasmon-Enhanced Layered Double Hydroxide Composite BiVO₄ Photoanodes: Layering-Dependent Modulation of the Water-Oxidation Reaction. ACS Applied Energy Materials, 2018, 1, 3577-3586.	5.1	52
22	Enhanced photoredox activity of CsPbBr3 nanocrystals by quantitative colloidal ligand exchange. Journal of Chemical Physics, 2019, 151, 204305.	3.0	52
23	A Nanocrystal Catalyst Incorporating a Surface Bound Transition Metal to Induce Photocatalytic Sequential Electron Transfer Events. Journal of the American Chemical Society, 2021, 143, 11361-11369.	13.7	47
24	Phosphorusâ€doped Isotype gâ€C₃N₄/gâ€C₃N₄: An Efficient Charge Transfer System for Photoelectrochemical Water Oxidation. ChemCatChem, 2019, 11, 729-736.	3.7	42
25	Computational Studies on Response and Binding Selectivity of Fluorescence Sensors. Journal of Physical Chemistry B, 2010, 114, 870-876.	2.6	41
26	Photoredox Organic Synthesis Employing Heterogeneous Photocatalysts with Emphasis on Halide Perovskite. Chemistry - A European Journal, 2020, 26, 13118-13136.	3.3	39
27	Highâ€Performance Photoelectrochemical Water Oxidation with Phosphorusâ€Doped and Metal Phosphide Cocatalystâ€Modified gâ€C₃N₄ Formation Through Gas Treatment. ChemSusChem, 2019, 12, 898-907.	6.8	29
28	Fe₂PO₅â€Encapsulated Reverse Energetic ZnO/Fe₂O₃ Heterojunction Nanowire for Enhanced Photoelectrochemical Oxidation of Water. ChemSusChem, 2017, 10, 2796-2804.	6.8	27
29	2D Perovskite Nanosheets with Intrinsic Chirality. Journal of Physical Chemistry Letters, 2021, 12, 2676-2681.	4.6	27
30	Structureâ€“Function Relationships for Electrocatalytic Water Oxidation by Molecular [Mn₁₂O₁₂] Clusters. Inorganic Chemistry, 2015, 54, 4550-4555.	4.0	26
31	Redox-Controlled Interconversion between Trigonal Prismatic and Octahedral Geometries in a Monodithiolene Tetracarbonyl Complex of Tungsten. Inorganic Chemistry, 2012, 51, 346-361.	4.0	25
32	Hydrogen Bonded Pyridine Dimer: A Possible Intermediate in the Electrocatalytic Reduction of Carbon Dioxide to Methanol. Aerosol and Air Quality Research, 2014, 14, 515-521.	2.1	25
33	Ancillary Ligand Effects upon Dithiolene Redox Noninnocence in Tungsten Bis(dithiolene) Complexes. Inorganic Chemistry, 2013, 52, 6743-6751.	4.0	24
34	Triplet Energy Transfer from Lead Halide Perovskite for Highly Selective Photocatalytic 2 + 2 Cycloaddition. ACS Applied Materials & Interfaces, 2022, 14, 25357-25365.	8.0	20
35	One-pot hydrothermal synthesis of thioglycolic acid-capped CdSe quantum dots-sensitized mesoscopic TiO2 photoanodes for sensitized solar cells. Solar Energy Materials and Solar Cells, 2018, 176, 418-426.	6.2	16
36	Peak Force Infraredâ€“Kelvin Probe Force Microscopy. Angewandte Chemie - International Edition, 2020, 59, 16083-16090.	13.8	16

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37	Aqueous synthesis of alloyed CdSexTe1-x colloidal quantum dots and their In-situ assembly within mesoporous TiO2 for solar cells. Solar Energy, 2020, 196, 513-520.	6.1	15
38	Isotopic Probe Illuminates the Role of the Electrode Surface in Proton Coupled Hydride Transfer Electrochemical Reduction of Pyridinium on Pt(111). Journal of the Electrochemical Society, 2015, 162, H938-H944.	2.9	14
39	V-rich Bi2S3 nanowire with efficient charge separation and transport for high-performance and robust photoelectrochemical application under visible light. Catalysis Today, 2020, 350, 47-55.	4.4	13
40	Unprecedented spin localisation in a metalâ€“metal bonded dirhenium complex. Chemical Communications, 2015, 51, 5482-5485.	4.1	9
41	Highâ€Resolution Inâ€Situ Synchrotron Xâ€Ray Studies of Inorganic Perovskite CsPbBr₃: New Symmetry Assignments and Structural Phase Transitions. Advanced Science, 2021, 8, e2003046.	11.2	9
42	Lead sulfide films synthesized by microwave-assisted chemical bath deposition method as efficient counter electrodes for CdS/CdSe sensitized ZnO nanorod solar cells. Solar Energy, 2019, 177, 672-678.	6.1	8
43	Peak Force Infraredâ€“Kelvin Probe Force Microscopy. Angewandte Chemie, 2020, 132, 16217-16224.	2.0	8
44	Fabrication of three-dimensionally ordered macroporous TiO₂ film and its application in quantum dots-sensitized solar cells. Optics Express, 2018, 26, A855.	3.4	7
45	Photoelectrocatalytic Reduction of Carbon Dioxide. , 2015, , 211-233.		6
46	A polymorph of tetraethylammonium chloride. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o1491-o1491.	0.2	5
47	Surface State Passivation Ignited Photoelectrochemical Sensing of Thallium(I) with Ultrathin In₂S₃ Nanosheets. ACS Applied Electronic Materials, 2021, 3, 2490-2496.	4.3	2
48	Hybrid Halide Perovskites for Photocatalysis. , 2022, , 115-140.		1