Hui-Chao He

List of Publications by Citations

Source: https://exaly.com/author-pdf/7752110/hui-chao-he-publications-by-citations.pdf

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69 1,529 21 37 g-index h-index citations papers 2,064 7.8 4.9 74 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
69	Convincing Synthesis of Atomically Thin, Single-Crystalline InVO Sheets toward Promoting Highly Selective and Efficient Solar Conversion of CO into CO. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4209-4213	16.4	124
68	Synthesis of BiVO4 nanoflake array films for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9371-9379	13	121
67	Polyhedral 30-Faceted BiVO Microcrystals Predominantly Enclosed by High-Index Planes Promoting Photocatalytic Water-Splitting Activity. <i>Advanced Materials</i> , 2018 , 30, 1703119	24	117
66	Nanostructured Bi2S3/WO3 heterojunction films exhibiting enhanced photoelectrochemical performance. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12826	13	114
65	p-Si/W2C and p-Si/W2C/Pt photocathodes for the hydrogen evolution reaction. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1535-44	16.4	70
64	Carbon-incorporated NiO/CoO concave surface microcubes derived from a MOF precursor for overall water splitting. <i>Chemical Communications</i> , 2019 , 55, 6515-6518	5.8	66
63	In3+-doped BiVO4 photoanodes with passivated surface states for photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10456-10465	13	57
62	Three-Dimensional Dendritic Structures of NiCoMo as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. <i>ACS Applied Materials & Samp; Interfaces</i> , 2017 , 9, 22420-22431	9.5	55
61	State-of-the-art advancements of crystal facet-exposed photocatalysts beyond TiO2: Design and dependent performance for solar energy conversion and environment applications. <i>Materials Today</i> , 2020 , 33, 75-86	21.8	50
60	Carbon-incorporated porous honeycomb NiCoFe phosphide nanospheres derived from a MOF precursor for overall water splitting. <i>Chemical Communications</i> , 2019 , 55, 10896-10899	5.8	48
59	Improved Surface Charge Transfer in MoO3/BiVO4 Heterojunction Film for Photoelectrochemical Water Oxidation. <i>Electrochimica Acta</i> , 2017 , 257, 181-191	6.7	42
58	State-of-the-art progress in the use of ternary metal oxides as photoelectrode materials for water splitting and organic synthesis. <i>Nano Today</i> , 2019 , 28, 100763	17.9	40
57	Electrodeposited amorphous cobalt phosphosulfide on Ni foams for highly efficient overall water splitting. <i>Journal of Power Sources</i> , 2019 , 431, 182-188	8.9	31
56	Quasi-Topotactic Transformation of FeOOH Nanorods to Robust FeO Porous Nanopillars Triggered with a Facile Rapid Dehydration Strategy for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Description (Materials & Descriptio</i>	9.5	30
55	Facile room-temperature surface modification of unprecedented FeB co-catalysts on Fe2O3 nanorod photoanodes for high photoelectrochemical performance. <i>Journal of Catalysis</i> , 2017 , 352, 113	3-1 ⁷ 1 ³ 9	29
54	Anchoring of black phosphorus quantum dots onto WO nanowires to boost photocatalytic CO conversion into solar fuels. <i>Chemical Communications</i> , 2020 , 56, 7777-7780	5.8	29
53	Enhanced photoelectrochemical water oxidation on WO3 nanoflake films by coupling with amorphous TiO2. <i>Electrochimica Acta</i> , 2018 , 283, 871-881	6.7	29

(2021-2021)

52	Vacancy-defect modulated pathway of photoreduction of CO on single atomically thin AgInPS sheets into olefiant gas. <i>Nature Communications</i> , 2021 , 12, 4747	17.4	28
51	Simultaneous removal and recovery of uranium from aqueous solution using TiO2 photoelectrochemical reduction method. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017 , 313, 59-67	1.5	27
50	In situ no-slot joint integration of half-metallic C(CN)3 cocatalyst into g-C3N4 scaffold: An absolute metal-free in-plane heterosystem for efficient and selective photoconversion of CO2 into CO. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118470	21.8	26
49	Enhanced charge separation and transfer by Bi 2 MoO 6 @Bi 2 Mo 2 O 9 compound using SILAR for photoelectrochemical water oxidation. <i>Electrochimica Acta</i> , 2018 , 264, 26-35	6.7	23
48	Boosting the hydrogen evolution performance of a ternary MoxCo1\(\text{P} \) nanowire array by tuning the Mo/Co ratio. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14842-14848	13	21
47	Thermodynamic and Kinetic Influence of Oxygen Vacancies on the Solar Water Oxidation Reaction of FeO Photoanodes. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 11625-11634	9.5	21
46	Selective adsorption of uranyl and potentially toxic metal ions at the core-shell MFeO-TiO (M=Mn, Fe, Zn, Co, or Ni) nanoparticles. <i>Journal of Hazardous Materials</i> , 2019 , 365, 835-845	12.8	18
45	Enhanced Photoelectrochemical Water Oxidation Performance on BiVO by Coupling of CoMoO as a Hole-Transfer and Conversion Cocatalyst. <i>ACS Applied Materials & District Materials </i>	6 ^{9.5}	18
44	Highly symmetrical, 24-faceted, concave BiVO polyhedron bounded by multiple high-index facets for prominent photocatalytic O evolution under visible light. <i>Chemical Communications</i> , 2019 , 55, 4777-	4 7 80	17
43	Boosted Water Oxidation Activity and Kinetics on BiVO Photoanodes with Multihigh-Index Crystal Facets. <i>Inorganic Chemistry</i> , 2018 , 57, 15280-15288	5.1	16
42	Reduced-graphene-oxide-loaded MoS2Ni3S2 nanorod arrays on Ni foam as an efficient and stable electrocatalyst for the hydrogen evolution reaction. <i>Electrochemistry Communications</i> , 2019 , 99, 22-26	5.1	15
41	Magnetic Field-Assisted Photoelectrochemical Water Splitting: The Photoelectrodes Have Weaker Nonradiative Recombination of Carrier. <i>ACS Catalysis</i> , 2021 , 11, 1242-1247	13.1	15
40	Photoelectrochemical driving and clean synthesis of energetic salts of 5,5?-azotetrazolate at room temperature. <i>Green Chemistry</i> , 2018 , 20, 3722-3726	10	14
39	Insight into the Improvement Mechanism of Copper Oxide/BiVO4 Heterojunction Photoanodes for Solar Water Oxidation. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H513-H520	3.9	13
38	Selective Removal of Uranyl from Aqueous Solutions Containing a Mix of Toxic Metal Ions Using CoreBhell MFe2O4IIiO2 Nanoparticles of Montmorillonite Edge Sites. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16267-16278	8.3	13
37	Insight into the Kinetic Influence of Oxygen Vacancies on the WO Photoanodes for Solar Water Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6159-6165	6.4	12
36	BiVO tubular structures: oxygen defect-rich and largely exposed reactive {010} facets synergistically boost photocatalytic water oxidation and the selective N[double bond, length as m-dash]N coupling reaction of 5-amino-1H-tetrazole. <i>Chemical Communications</i> , 2019 , 55, 5635-5638	5.8	12
35	WO3 homojunction photoanode: Integrating the advantages of WO3 different facets for efficient water oxidation. <i>Journal of Energy Chemistry</i> , 2021 , 56, 37-45	12	12

34	Pyridine-Diketopyrrolopyrrole-Based Novel Metal-Free Visible-Light Organophotoredox Catalyst for Atom-Transfer Radical Polymerization. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 1068-1075	2.8	11
33	Cu3Mo2O9/BiVO4 Heterojunction Films with Integrated Thermodynamic and Kinetic Advantages for Solar Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 14082-14090	8.3	11
32	MoO3/BiVO4 heterojunction film with oxygen vacancies for efficient and stable photoelectrochemical water oxidation. <i>Journal of Materials Science</i> , 2019 , 54, 671-682	4.3	11
31	Microbially Mediated Stable Uranium Phosphate Nano-Biominerals. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 6771-6780	1.3	10
30	Impact of Ferroelectric Polarization on Different Semiconductors for Photoelectrochemical Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19640-19648	8.3	10
29	Improving photoelectrochemical reduction of Cr(VI) ions by building FeO/TiO electrode. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 22455-22463	5.1	9
28	Ordered NiOTiO2 nanotube arrays as an efficient catalyst support for methanol oxidation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 2085-2090	1.6	8
27	Trimetallic CoFeCr hydroxide electrocatalysts synthesized at a low temperature for accelerating water oxidation via tuning the electronic structure of active sites. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3647-3653	5.8	7
26	Ultrathin nanosheet-anchored hexahedral prismatic Bi2MoO6 arrays: one-step constructed and crystal facet-based homojunctions boosting photocatalytic CO2 reduction and N2 fixation. <i>Catalysis Science and Technology</i> , 2019 , 9, 7045-7050	5.5	7
25	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boots Solar Hydrogen Evolution. <i>Solar Rrl</i> , 2020 , 4, 2000094	7.1	6
24	Self-Assembly of Water-Soluble Glutathione Thiol-Capped n-HematiteBMZn-Ferrites (X = Mg, Mn, or Ni): Experiment and Theory. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24046-24059	3.8	5
23	Photoelectrochemical Driving and Simultaneous Synthesis of 3-pyridinecarboxylic Acid and Hydrogen in WO3 Photoanode-Based Cell. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H662-H668	3.9	5
22	A high-efficiency photocatalyst, flaky anatase@natural rutile composite using one-step microwave hydrothermal synthesis. <i>Research on Chemical Intermediates</i> , 2018 , 44, 705-720	2.8	5
21	Geometric and electronic modulation of fcc NiCo alloy by Group-VI B metal doping to accelerate hydrogen evolution reaction in acidic and alkaline media. <i>Chemical Engineering Journal</i> , 2022 , 430, 1331	1 6 1.7	5
20	An Efficient Metal-Free Photocatalytic System with Enhanced Activity for NADH Regeneration. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 23567-23573	3.9	5
19	Cascade cycling of nicotinamide cofactor in a dual enzyme microsystem. <i>Chemical Communications</i> , 2020 , 56, 2723-2726	5.8	4
18	Magnetic field improved photoelectrochemical synthesis of 5,5?-azotetrazolate energetic salts and hydrogen in a hematite photoanode-based cell. <i>Electrochimica Acta</i> , 2020 , 330, 135217	6.7	4
17	Objective Findings on the K-Doped -CN Photocatalysts: The Presence and Influence of Organic Byproducts on K-Doped -CN Photocatalysis. <i>Langmuir</i> , 2021 , 37, 4859-4868	4	4

LIST OF PUBLICATIONS

16	Competitive Adsorption of Uranyl and Toxic Trace Metal Ions at MFe2O4-montmorillonite (M = Mn, Fe, Zn, Co, or Ni) Interfaces. <i>Clays and Clay Minerals</i> , 2019 , 67, 291-305	2.1	4	
15	Synthesis and characterization of Sb2O3: a stable electrocatalyst for efficient H2O2 production and accumulation and effective degradation of dyes. <i>New Journal of Chemistry</i> , 2021 , 45, 8958-8964	3.6	4	
14	Plasmonic Cocatalyst with Electric and Thermal Stimuli Boots Solar Hydrogen Evolution. <i>Solar Rrl</i> , 2020 , 4, 2070062	7.1	3	
13	Interfacial Engineering for the Fast Carrier Tunneling Channel by a Novelty Quaternary Layered Photoanode. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6780-6789	6.1	3	
12	Hole dynamic acceleration over CdSO nanoparticles for high-efficiency solar hydrogen production with urea photolysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25650-25656	13	3	
11	Unpaired Electron-Induced Wide-Range Light Absorption within Zn (or Cu) MOFs Containing Electron-Withdrawing Ligands: A Theoretical and Experimental Study. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 5314-5322	2.8	2	
10	⊞e2O3/Ag/CdS ternary heterojunction photoanode for efficient solar water oxidation. <i>Catalysis Science and Technology</i> , 2021 , 11, 5859-5867	5.5	2	
9	Boosting O 2 Reduction and H 2 O Dehydrogenation Kinetics: Surface N -Hydroxymethylation of g -C 3 N 4 Photocatalysts for the Efficient Production of H 2 O 2. <i>Advanced Functional Materials</i> ,2111125	15.6	2	
8	Convenient Synthesis of 5,5?-azotetrazolate Energetic Salts through Electrochemical Oxidative-Coupling of 5-amino-1H-tetrazole Under Mild Conditions. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 065503	3.9	1	
7	Accurate Understanding the Catalytic Role of MnO2 in the Oxidative-Coupling of 2-naphthols into 1,1?-bi-2-naphthols. <i>Catalysis Letters</i> , 2021 , 151, 901-908	2.8	1	
6	Objective Observations of the Electrochemical Production of H2O2 in KHCO3 Aqueous Electrolyte and Related Application Inspirations. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19831-19838	3.8	1	
5	Dual-functional water splitting: Electro-fenton-like pollutants degradation from anode reaction and hydrogen fuel production from cathode reaction. <i>Electrochimica Acta</i> , 2021 , 394, 139122	6.7	1	
4	State-of-the-art advancements of transition metal oxides as photoelectrode materials for solar water splitting. <i>Rare Metals</i> ,1	5.5	1	
3	Efficient adsorption of U(VI) using in low-level radioactive wastewater containing organic matter by amino groups modified polyacrylonitrile fibers. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2022 , 331, 921	1.5	Ο	
2	Photocatalytic oxidative-coupling of 5-amino-1H-tetrazole for the synthesis of 5,5?-azotetrazolate energetic salts at mild conditions. <i>Catalysis Communications</i> , 2020 , 136, 105923	3.2	0	
1	Development of an alkaline Electro-Fenton process based on the synthesis of H2O2 in bicarbonate electrolyte. <i>Catalysis Science and Technology</i> ,	5.5		