

Shane Ardo

List of Publications by Citations

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

65
papers

4,725
citations

29
h-index

68
g-index

70
ext. papers

5,269
ext. citations

15.6
avg, IF

5.87
L-index

#	Paper	IF	Citations
65	Photodriven heterogeneous charge transfer with transition-metal compounds anchored to TiO ₂ semiconductor surfaces. <i>Chemical Society Reviews</i> , 2009 , 38, 115-64	58.5	987
64	Technical and economic feasibility of centralized facilities for solar hydrogen production via photocatalysis and photoelectrochemistry. <i>Energy and Environmental Science</i> , 2013 , 6, 1983	35.4	868
63	Experimental demonstrations of spontaneous, solar-driven photoelectrochemical water splitting. <i>Energy and Environmental Science</i> , 2015 , 8, 2811-2824	35.4	411
62	Particle suspension reactors and materials for solar-driven water splitting. <i>Energy and Environmental Science</i> , 2015 , 8, 2825-2850	35.4	256
61	Modeling, simulation, and design criteria for photoelectrochemical water-splitting systems. <i>Energy and Environmental Science</i> , 2012 , 5, 9922	35.4	232
60	Pathways to electrochemical solar-hydrogen technologies. <i>Energy and Environmental Science</i> , 2018 , 11, 2768-2783	35.4	165
59	Stark effects after excited-state interfacial electron transfer at sensitized TiO ₂ nanocrystallites. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6696-709	16.4	162
58	Photoelectrochemistry of core-shell tandem junction n ⁺ -Si/n-WO ₃ microwire array photoelectrodes. <i>Energy and Environmental Science</i> , 2014 , 7, 779-790	35.4	135
57	Iodide Chemistry in Dye-Sensitized Solar Cells: Making and Breaking I-O Bonds for Solar Energy Conversion. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3132-3140	6.4	133
56	Use of bipolar membranes for maintaining steady-state pH gradients in membrane-supported, solar-driven water splitting. <i>ChemSusChem</i> , 2014 , 7, 3021-7	8.3	87
55	Modeling, Simulation, and Implementation of Solar-Driven Water-Splitting Devices. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12974-12988	16.4	86
54	Hybrid organic-inorganic solar cells based on bismuth iodide and 1,6-hexanediammonium dication. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6837-6841	13	82
53	Excited-state electron transfer from ruthenium-polypyridyl compounds to anatase TiO ₂ nanocrystallites: evidence for a Stark effect. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 14596-604	3.4	67
52	Non-Nernstian two-electron transfer photocatalysis at metalloporphyrin-TiO ₂ interfaces. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16572-80	16.4	65
51	Evaluating particle-suspension reactor designs for Z-scheme solar water splitting via transport and kinetic modeling. <i>Energy and Environmental Science</i> , 2018 , 11, 115-135	35.4	59
50	Characterization of photoinduced self-exchange reactions at molecule-semiconductor interfaces by transient polarization spectroscopy: lateral intermolecular energy and hole transfer across sensitized TiO ₂ thin films. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15384-96	16.4	58
49	Direct observation of photodriven intermolecular hole transfer across TiO ₂ nanocrystallites: lateral self-exchange reactions and catalyst oxidation. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9283-5	16.4	52

48	Slow cation transfer follows sensitizer regeneration at anatase TiO ₂ interfaces. <i>Journal of the American Chemical Society</i> , 2008 , 130, 11586-7	16.4	52
47	Photoelectrochemical behavior of n-type Si(111) electrodes coated with a single layer of graphene. <i>Journal of the American Chemical Society</i> , 2013 , 135, 17246-9	16.4	51
46	Ionic Processes in Water Electrolysis: The Role of Ion-Selective Membranes. <i>ACS Energy Letters</i> , 2017 , 2, 2625-2634	20.1	49
45	Observation of Photovoltaic Action from Photoacid-Modified Nafion Due to Light-Driven Ion Transport. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11726-11733	16.4	44
44	Hybrid of g-C ₃ N ₄ and MoS ₂ Integrated onto Cd _{0.5} Zn _{0.5} S: Rational Design with Efficient Charge Transfer for Enhanced Photocatalytic Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6718-6729	8.7	41
43	Conversion of Visible Light into Ionic Power Using Photoacid-Dye-Sensitized Bipolar Ion-Exchange Membranes. <i>Joule</i> , 2018 , 2, 94-109	27.8	41
42	Direct observation of sequential oxidations of a titania-bound molecular proxy catalyst generated through illumination of molecular sensitizers. <i>Nature Chemistry</i> , 2018 , 10, 17-23	17.6	40
41	Electrochemical Characterization of Commercial Bipolar Membranes under Electrolyte Conditions Relevant to Solar Fuels Technologies. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H3132-H3134	3.9	37
40	Decreased Interfacial Charge Recombination Rate Constants with N ₃ -Type Sensitizers. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1725-1728	6.4	35
39	Charge-Screening Kinetics at Sensitized TiO ₂ Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2817-2821	6.4	33
38	Unassisted solar-driven photoelectrosynthetic H ₂ splitting using membrane-embedded Si microwire arrays. <i>Energy and Environmental Science</i> , 2015 , 8, 1484-1492	35.4	32
37	Photocatalytic Hydrogen Production at Titania-Supported Pt Nanoclusters That Are Derived from Surface-Anchored Molecular Precursors. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1429-1438	3.8	30
36	A scanning probe investigation of the role of surface motifs in the behavior of p-WSe ₂ photocathodes. <i>Energy and Environmental Science</i> , 2016 , 9, 164-175	35.4	27
35	Potentially Confusing: Potentials in Electrochemistry. <i>ACS Energy Letters</i> , 2021 , 6, 261-266	20.1	25
34	Interfacial Electron Transfer of Ferrocene Immobilized onto Indium Tin Oxide through Covalent and Noncovalent Interactions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13211-13217	9.5	24
33	Photodriven spin change of Fe(II) benzimidazole compounds anchored to nanocrystalline TiO ₂ thin films. <i>Langmuir</i> , 2009 , 25, 13641-52	4	24
32	Charge Recombination to Oxidized Iodide in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20316-20325	3.8	20
31	Comparison between the electrical junction properties of H-terminated and methyl-terminated individual Si microwire/polymer assemblies for photoelectrochemical fuel production. <i>Energy and Environmental Science</i> , 2012 , 5, 9789	35.4	18

30	Curtailing Perovskite Processing Limitations via Lamination at the Perovskite/Perovskite Interface. <i>ACS Energy Letters</i> , 2018 , 3, 1192-1197	20.1	17
29	An Electrochemical Neutralization Cell for Spontaneous Water Desalination. <i>Joule</i> , 2020 , 4, 1730-1742	27.8	16
28	Calculations of theoretical efficiencies for electrochemically-mediated tandem solar water splitting as a function of bandgap energies and redox shuttle potential. <i>Energy and Environmental Science</i> , 2019 , 12, 261-272	35.4	15
27	Low Overpotential and Stable Electrocatalytic Oxygen Evolution Reaction Utilizing Doped Perovskite Oxide, La _{0.7} Sr _{0.3} MnO ₃ , Modified by Cobalt Phosphate. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1279-1285	6.1	14
26	Interfacial and Nanoconfinement Effects Decrease the Excited-State Acidity of Polymer-Bound Photoacids. <i>CheM</i> , 2019 , 5, 1648-1670	16.2	14
25	Sensitization of TiO ₂ by the MLCT Excited State of CoI Coordination Compounds. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 305-308	6.4	13
24	5-Methoxyquinoline Photobasicity Is Mediated by Water Oxidation. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 6645-6651	2.8	10
23	Measurement of the Electrical Resistance of n-Type Si Microwire/p-Type Conducting Polymer Junctions for Use in Artificial Photosynthesis. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27742-27748	3.8	9
22	Increase in the coordination number of a cobalt porphyrin after photo-induced interfacial electron transfer into nanocrystalline TiO ₂ . <i>Inorganic Chemistry</i> , 2012 , 51, 9865-72	5.1	8
21	Reaction of Ru(II) diazafluorenone compound with nanocrystalline TiO ₂ thin film. <i>Inorganic Chemistry</i> , 2010 , 49, 7726-34	5.1	8
20	Modellierung, Simulation und Implementierung von Zellen für die solarbetriebene Wasserspaltung. <i>Angewandte Chemie</i> , 2016 , 128, 13168-13183	3.6	7
19	Photoinduced electron transfer from Ru am(m)ine compounds with low-lying ligand field excited states to nanocrystalline TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010 , 216, 94-103	4.7	7
18	Challenges and Opportunities for Ion-Exchange Membranes in Solar Fuels Devices. <i>Reviews in Advanced Sciences and Engineering</i> , 2014 , 3, 277-287		7
17	Photoacid-Modified Nafion Membrane Morphology Determined by Resonant X-ray Scattering and Spectroscopy. <i>ACS Macro Letters</i> , 2019 , 8, 1353-1359	6.6	6
16	Combined Experimental and Theoretical Insights into the Synergistic Effect of Cerium Doping and Oxygen Vacancies in BaZrO ₃ Hollow Nanospheres for Efficient Photocatalytic Hydrogen Production. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 233-249	3.8	6
15	The Solar Army: A Case Study in Outreach Based on Solar Photoelectrochemistry. <i>Reviews in Advanced Sciences and Engineering</i> , 2014 , 3, 288-303		5
14	Predicting Solar Cell Performance from Terahertz and Microwave Spectroscopy. <i>Advanced Energy Materials</i> , 2022 , 12, 2102776	21.8	5
13	Influence of One Specific Carbon-Carbon Bond on the Quality, Stability, and Photovoltaic Performance of Hybrid Organic-Inorganic Bismuth Iodide Materials. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1579-1587	6.1	4

12	Enhanced Stability and Efficiency for Photoelectrochemical Iodide Oxidation by Methyl Termination and Electrochemical Pt Deposition on n-Type Si Microwire Arrays. <i>ACS Energy Letters</i> , 2019 , 4, 2308-2314 ^{20.1}	4
11	The role of lithium cations on the photochemistry of ruthenium complexes in dye-sensitized solar cells: A TDDFT study with the BCL model. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 364, 510-515	4.7 4
10	Demonstration of Photovoltaic Action and Enhanced Stability from a Quasi-Two-Dimensional Hybrid Organic-Inorganic Copper Halide Material Incorporating Divalent Organic Groups. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2178-2187	6.1 3
9	Investigating Saltwater Desalination by Electrodialysis and Curriculum Extensions To Introduce Students to the Chemical Physics of Polymeric Ion-Exchange Membranes. <i>Journal of Chemical Education</i> , 2017 , 94, 1733-1737	2.4 2
8	Reinvigorating electrochemistry education. <i>iScience</i> , 2021 , 24, 102481	6.1 2
7	Turning water into a protonic diode and solar cell via doping and dye sensitization. <i>Joule</i> , 2021 , 5, 2380-2394	2.94 2
6	Numerical Monte Carlo Simulations to Evaluate the Influence That Spherical Nanoparticle Size and Arrangement Have on Interparticle Charge Transport across the Surface of Dye- and Cocatalyst-Modified Materials. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4699-4707	6.1 1
5	Reconciliation of Differences in Apparent Diffusion Coefficients Measured for Self-Exchange Electron Transfer between Molecules Anchored to Mesoporous Titanium Dioxide Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41396-41404	9.5 1
4	Evaluation of the role that photoacid excited-state acidity has on photovoltage and photocurrent of dye-sensitized ion-exchange membranes 2019 ,	1
3	Numerical Monte Carlo simulations of charge transport across the surface of dye and cocatalyst modified spherical nanoparticles under conditions of pulsed or continuous illumination. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 1573-1587	5.8 1
2	Clarification of mechanisms of protonic photovoltaic action initiated by photoexcitation of strong photoacids covalently bound to hydrated Nafion cation-exchange membranes wetted by aqueous electrolytes. <i>Energy and Environmental Science</i> , 2021 , 14, 4961-4978	35.4 1
1	Tunneling based ten attomolar DNA biosensor. <i>AIP Advances</i> , 2021 , 11, 065226	1.5