## Shane Ardo

## List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/1035037/shane-ardo-publications-by-year.pdf

Version: 2024-04-28

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.

65
papers

4,725
citations

29
h-index

70
ext. papers

5,269
ext. citations

15.6
avg, IF

L-index

#	Paper	IF	Citations
65	Predicting Solar Cell Performance from Terahertz and Microwave Spectroscopy. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2102776	21.8	5
64	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 &amp; Applied Materials &amp; Dioxide Thin Films</i> . 3 (2021), 13, 41396-41404	9.5	1
63	Reinvigorating electrochemistry education. <i>IScience</i> , <b>2021</b> , 24, 102481	6.1	2
62	Tunneling based ten attomolar DNA biosensor. AIP Advances, 2021, 11, 065226	1.5	
61	Potentially Confusing: Potentials in Electrochemistry. ACS Energy Letters, 2021, 6, 261-266	20.1	25
60	Turning water into a protonic diode and solar cell via doping and dye sensitization. <i>Joule</i> , <b>2021</b> , 5, 2380-	·2 <del>3/98</del>	2
59	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> , <b>2021</b> , 14, 4961-4978	35.4	1
58	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> , <b>2020</b> , 3, 4699-4707	6.1	1
57	Low Overpotential and Stable Electrocatalytic Oxygen Evolution Reaction Utilizing Doped Perovskite Oxide, La0.7Sr0.3MnO3, Modified by Cobalt Phosphate. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1279-1285	6.1	14
56	An Electrochemical Neutralization Cell for Spontaneous Water Desalination. <i>Joule</i> , <b>2020</b> , 4, 1730-1742	27.8	16
55	Photoacid-Modified Nafion Membrane Morphology Determined by Resonant X-ray Scattering and Spectroscopy. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 1353-1359	6.6	6
54	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> , <b>2019</b> , 12, 261-272	35.4	15
53	Demonstration of Photovoltaic Action and Enhanced Stability from a Quasi-Two-Dimensional Hybrid OrganicIhorganic CopperHalide Material Incorporating Divalent Organic Groups. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2178-2187	6.1	3
52	Influence of One Specific Carbontarbon Bond on the Quality, Stability, and Photovoltaic Performance of Hybrid Organicthorganic Bismuth Iodide Materials. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1579-1587	6.1	4
51	5-Methoxyquinoline Photobasicity Is Mediated by Water Oxidation. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 6645-6651	2.8	10
50	Interfacial and Nanoconfinement Effects Decrease the Excited-State Acidity of Polymer-Bound Photoacids. <i>CheM</i> , <b>2019</b> , 5, 1648-1670	16.2	14
49	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> , <b>2019</b> , 4, 2308-231	4 <sup>20.1</sup>	4

## (2016-2019)

48	Evaluation of the role that photoacid excited-state acidity has on photovoltage and photocurrent of dye-sensitized ion-exchange membranes <b>2019</b> ,		1
47	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> , <b>2019</b> , 3, 1573-1587	5.8	1
46	Combined Experimental and Theoretical Insights into the Synergistic Effect of Cerium Doping and Oxygen Vacancies in BaZrO3[Hollow Nanospheres for Efficient Photocatalytic Hydrogen Production. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 233-249	3.8	6
45	Curtailing Perovskite Processing Limitations via Lamination at the Perovskite/Perovskite Interface. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1192-1197	20.1	17
44	Interfacial Electron Transfer of Ferrocene Immobilized onto Indium Tin Oxide through Covalent and Noncovalent Interactions. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 13211-13217	9.5	24
43	Hybrid of g-C3N4 and MoS2 Integrated onto Cd0.5Zn0.5S: Rational Design with Efficient Charge Transfer for Enhanced Photocatalytic Activity. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 6718	-8 <del>7</del> 29	41
42	Evaluating particle-suspension reactor designs for Z-scheme solar water splitting via transport and kinetic modeling. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 115-135	35.4	59
41	Pathways to electrochemical solar-hydrogen technologies. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2768-2783	35.4	165
40	Direct observation of sequential oxidations of a titania-bound molecular proxy catalyst generated through illumination of molecular sensitizers. <i>Nature Chemistry</i> , <b>2018</b> , 10, 17-23	17.6	40
39	Conversion of Visible Light into Ionic Power Using Photoacid-Dye-Sensitized Bipolar Ion-Exchange Membranes. <i>Joule</i> , <b>2018</b> , 2, 94-109	27.8	41
38	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> , <b>2018</b> , 364, 510-515	4.7	4
37	Observation of Photovoltaic Action from Photoacid-Modified Nafion Due to Light-Driven Ion Transport. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 11726-11733	16.4	44
36	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> , <b>2017</b> , 94, 1733-1737	2.4	2
35	Ionic Processes in Water Electrolysis: The Role of Ion-Selective Membranes. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2625-2634	20.1	49
34	A scanning probe investigation of the role of surface motifs in the behavior of p-WSe2 photocathodes. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 164-175	35.4	27
33	Modellierung, Simulation und Implementierung von Zellen f⊡die solargetriebene Wasserspaltung. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 13168-13183	3.6	7
32	Modeling, Simulation, and Implementation of Solar-Driven Water-Splitting Devices. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12974-12988	16.4	86
31	Communication Electrochemical Characterization of Commercial Bipolar Membranes under Electrolyte Conditions Relevant to Solar Fuels Technologies. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, H3132-H3134	3.9	37

30	Hybrid organicIhorganic solar cells based on bismuth iodide and 1,6-hexanediammonium dication. Journal of Materials Chemistry A, <b>2016</b> , 4, 6837-6841	13	82
29	Particle suspension reactors and materials for solar-driven water splitting. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2825-2850	35.4	256
28	Experimental demonstrations of spontaneous, solar-driven photoelectrochemical water splitting. Energy and Environmental Science, <b>2015</b> , 8, 2811-2824	35.4	411
27	Unassisted solar-driven photoelectrosynthetic HI splitting using membrane-embedded Si microwire arrays. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1484-1492	35.4	32
26	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> , <b>2014</b> , 118, 27742-27748	3.8	9
25	Use of bipolar membranes for maintaining steady-state pH gradients in membrane-supported, solar-driven water splitting. <i>ChemSusChem</i> , <b>2014</b> , 7, 3021-7	8.3	87
24	Photoelectrochemistry of coreShell tandem junction np+-Si/n-WO3 microwire array photoelectrodes. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 779-790	35.4	135
23	Challenges and Opportunities for Ion-Exchange Membranes in Solar Fuels Devices. <i>Reviews in Advanced Sciences and Engineering</i> , <b>2014</b> , 3, 277-287		7
22	The Solar Army: A Case Study in Outreach Based on Solar Photoelectrochemistry. <i>Reviews in Advanced Sciences and Engineering</i> , <b>2014</b> , 3, 288-303		5
21	Charge-Screening Kinetics at Sensitized TiO2 Interfaces. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 2817-2821	6.4	33
20	Photoelectrochemical behavior of n-type Si(111) electrodes coated with a single layer of graphene. Journal of the American Chemical Society, <b>2013</b> , 135, 17246-9	16.4	51
19	Technical and economic feasibility of centralized facilities for solar hydrogen production via photocatalysis and photoelectrochemistry. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 1983	35.4	868
18	Modeling, simulation, and design criteria for photoelectrochemical water-splitting systems. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9922	35.4	232
17	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> , <b>2012</b> , 5, 9789	35.4	18
16	Photocatalytic Hydrogen Production at Titania-Supported Pt Nanoclusters That Are Derived from Surface-Anchored Molecular Precursors. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 1429-1438	3.8	30
15	Increase in the coordination number of a cobalt porphyrin after photo-induced interfacial electron transfer into nanocrystalline TiO2. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 9865-72	5.1	8
14	Characterization of photoinduced self-exchange reactions at molecule-semiconductor interfaces by transient polarization spectroscopy: lateral intermolecular energy and hole transfer across sensitized TiO2 thin films. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 15384-96	16.4	58
13	Non-Nernstian two-electron transfer photocatalysis at metalloporphyrin-TiO2 interfaces. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 16572-80	16.4	65

## LIST OF PUBLICATIONS

12	Charge Recombination to Oxidized Iodide in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20316-20325	3.8	20
11	Sensitization of TiO2 by the MLCT Excited State of CoI Coordination Compounds. <i>Journal of Physical Chemistry Letters</i> , <b>2011</b> , 2, 305-308	6.4	13
10	Iodide Chemistry in Dye-Sensitized Solar Cells: Making and Breaking IIIBonds for Solar Energy Conversion. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 3132-3140	6.4	133
9	Decreased Interfacial Charge Recombination Rate Constants with N3-Type Sensitizers. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 1725-1728	6.4	35
8	Stark effects after excited-state interfacial electron transfer at sensitized TiO(2) nanocrystallites. Journal of the American Chemical Society, <b>2010</b> , 132, 6696-709	16.4	162
7	Reaction of Ru(II) diazafluorenone compound with nanocrystalline TiO2 thin film. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 7726-34	5.1	8
6	Excited-state electron transfer from ruthenium-polypyridyl compounds to anatase TiO2 nanocrystallites: evidence for a Stark effect. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 14596-604	3.4	67
5	Direct observation of photodriven intermolecular hole transfer across TiO2 nanocrystallites: lateral self-exchange reactions and catalyst oxidation. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 928	3 <del>1</del> 6.4	52
4	Photoinduced electron transfer from Ru am(m)ine compounds with low-lying ligand field excited states to nanocrystalline TiO2. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2010</b> , 216, 94-1	10437	7
3	Photodriven heterogeneous charge transfer with transition-metal compounds anchored to TiO2 semiconductor surfaces. <i>Chemical Society Reviews</i> , <b>2009</b> , 38, 115-64	58.5	987
2	Photodriven spin change of Fe(II) benzimidazole compounds anchored to nanocrystalline TiO(2) thin films. <i>Langmuir</i> , <b>2009</b> , 25, 13641-52	4	24
1	Slow cation transfer follows sensitizer regeneration at anatase TiO2 interfaces. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 11586-7	16.4	52