

M Kyle Brennaman

List of Publications by Year in descending order

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126907

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times ranked

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#	ARTICLE	IF	CITATIONS
1	A Semiconductor-Mediator-Catalyst Artificial Photosynthetic System for Photoelectrochemical Water Oxidation. <i>Chemistry - A European Journal</i> , 2022, 28, e202102630.	3.3	4
2	Dye-Sensitized Nonstoichiometric Strontium Titanate Core-Shell Photocathodes for Photoelectrosynthesis Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15261-15269.	8.0	5
3	Ruthenium Dyes, Charge Transfer, and the Sun. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1812-1812.	0.0	0
4	Organic Chromophores Designed for Hole Injection into Wide-Band-Gap Metal Oxides for Solar Fuel Applications. <i>Chemistry of Materials</i> , 2020, 32, 8158-8168.	6.7	12
5	Photophysical characterization of new osmium (II) photocatalysts for hydrohalic acid splitting. <i>Journal of Chemical Physics</i> , 2020, 153, 054307.	3.0	5
6	Ultrafast Relaxations in Ruthenium Polypyridyl Chromophores Determined by Stochastic Kinetics Simulations. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5971-5985.	2.6	13
7	A Silicon-Based Heterojunction Integrated with a Molecular Excited State in a Water-Splitting Tandem Cell. <i>Journal of the American Chemical Society</i> , 2019, 141, 10390-10398.	13.7	34
8	Binary molecular-semiconductor pn junctions for photoelectrocatalytic CO ₂ reduction. <i>Nature Energy</i> , 2019, 4, 290-299.	39.5	149
9	Stabilization of Ruthenium(II) Polypyridyl Chromophores on Mesoporous TiO ₂ Electrodes: Surface Reductive Electropolymerization and Silane Chemistry. <i>ACS Central Science</i> , 2019, 5, 506-514.	11.3	15
10	Stable Molecular Surface Modification of Nanostructured, Mesoporous Metal Oxide Photoanodes by Silane and Click Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4560-4567.	8.0	18
11	Charge Transfer from Upconverting Nanocrystals to Semiconducting Electrodes: Optimizing Thermodynamic Outputs by Electronic Energy Transfer. <i>Journal of the American Chemical Society</i> , 2019, 141, 463-471.	13.7	19
12	A High-Valent Metal-Oxo Species Produced by Photoinduced One-Electron, Two-Proton Transfer Reactivity. <i>Inorganic Chemistry</i> , 2018, 57, 486-494.	4.0	28
13	Synthesis and Photophysical Properties of a Covalently Linked Porphyrin Chromophore-Ru(II) Water Oxidation Catalyst Assembly on SnO ₂ Electrodes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13455-13461.	3.1	11
14	Direct photoactivation of a nickel-based, water-reduction photocathode by a highly conjugated supramolecular chromophore. <i>Energy and Environmental Science</i> , 2018, 11, 447-455.	30.8	23
15	Controlling Vertical and Lateral Electron Migration Using a Bifunctional Chromophore Assembly in Dye-Sensitized Photoelectrosynthesis Cells. <i>Journal of the American Chemical Society</i> , 2018, 140, 6493-6500.	13.7	48
16	Light-Driven Water Splitting in the Dye-Sensitized Photoelectrosynthesis Cell. <i>Green Chemistry and Sustainable Technology</i> , 2018, , 229-257.	0.7	6
17	A Molecular Silane-Derivatized Ru(II) Catalyst for Photoelectrochemical Water Oxidation. <i>Journal of the American Chemical Society</i> , 2018, 140, 15062-15069.	13.7	29
18	Completing a Charge Transport Chain for Artificial Photosynthesis. <i>Journal of the American Chemical Society</i> , 2018, 140, 9823-9826.	13.7	20

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19	Optical Intramolecular Electron Transfer in Opposite Directions through the Same Bridge That Follows Different Pathways. <i>Journal of the American Chemical Society</i> , 2018, 140, 7176-7186.	13.7	27
20	Pathways Following Electron Injection: Medium Effects and Cross-Surface Electron Transfer in a Ruthenium-Based, Chromophore-Catalyst Assembly on TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 13017-13026.	3.1	10
21	Excited-State Decay Pathways of Tris(bidentate) Cyclometalated Ruthenium(II) Compounds. <i>Inorganic Chemistry</i> , 2017, 56, 13579-13592.	4.0	36
22	Water Photo-oxidation Initiated by Surface-Bound Organic Chromophores. <i>Journal of the American Chemical Society</i> , 2017, 139, 16248-16255.	13.7	52
23	Chromophore-Catalyst Assembly for Water Oxidation Prepared by Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 39018-39026.	8.0	32
24	Ultrafast Recombination Dynamics in Dye-Sensitized SnO ₂ /TiO ₂ Core/Shell Films. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5297-5301.	4.6	41
25	Synthesis, Electrochemistry, and Excited-State Properties of Three Ru(II) Quaterpyridine Complexes. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1845-1852.	2.5	8
26	Efficient Photochemical Dihydrogen Generation Initiated by a Bimetallic Self-Quenching Mechanism. <i>Journal of the American Chemical Society</i> , 2016, 138, 13509-13512.	13.7	40
27	Direct observation of light-driven, concerted electron-proton transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11106-11109.	7.1	27
28	Finding the Way to Solar Fuels with Dye-Sensitized Photoelectrosynthesis Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 13085-13102.	13.7	317
29	Polymer-Based Ruthenium(II) Polypyridyl Chromophores on TiO ₂ for Solar Energy Conversion. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1257-1267.	3.3	25
30	Phosphonate-Derivatized Porphyrins for Photoelectrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3853-3860.	8.0	29
31	Disentangling the Physical Processes Responsible for the Kinetic Complexity in Interfacial Electron Transfer of Excited Ru(II) Polypyridyl Dyes on TiO ₂ . <i>Journal of the American Chemical Society</i> , 2016, 138, 4426-4438.	13.7	84
32	An aqueous, organic dye derivatized SnO ₂ /TiO ₂ core/shell photoanode. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2969-2975.	10.3	89
33	Visible photoelectrochemical water splitting into H ₂ and O ₂ in a dye-sensitized photoelectrosynthesis cell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5899-5902.	7.1	136
34	Molecular Chromophore-Catalyst Assemblies for Solar Fuel Applications. <i>Chemical Reviews</i> , 2015, 115, 13006-13049.	47.7	412
35	Artificial photosynthesis: Where are we now? Where can we go?. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2015, 25, 32-45.	11.6	158
36	Ultrafast, Light-Induced Electron Transfer in a Perylene Diimide Chromophore-Donor Assembly on TiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4736-4742.	4.6	20

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37	Controlling Ground and Excited State Properties through Ligand Changes in Ruthenium Polypyridyl Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 5637-5646.	4.0	53
38	Driving Force Dependent, Photoinduced Electron Transfer at Degenerately Doped, Optically Transparent Semiconductor Nanoparticle Interfaces. <i>Journal of the American Chemical Society</i> , 2014, 136, 15869-15872.	13.7	43
39	Stabilization of Ruthenium(II) Polypyridyl Chromophores on Nanoparticle Metal-Oxide Electrodes in Water by Hydrophobic PMMA Overlayers. <i>Journal of the American Chemical Society</i> , 2014, 136, 13514-13517.	13.7	70
40	Visible Light Driven Benzyl Alcohol Dehydrogenation in a Dye-Sensitized Photoelectrosynthesis Cell. <i>Journal of the American Chemical Society</i> , 2014, 136, 9773-9779.	13.7	80
41	Rapid energy transfer in non-porous metal-organic frameworks with caged Ru(bpy) ₃ ²⁺ chromophores: oxygen trapping and luminescence quenching. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14982.	10.3	62
42	Revealing the Relationship between Semiconductor Electronic Structure and Electron Transfer Dynamics at Metal Oxide-Chromophore Interfaces. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25259-25268.	3.1	45
43	Solar water splitting in a molecular photoelectrochemical cell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20008-20013.	7.1	203
44	A Sensitized Nb ₂ O ₅ Photoanode for Hydrogen Production in a Dye-Sensitized Photoelectrosynthesis Cell. <i>Chemistry of Materials</i> , 2013, 25, 122-131.	6.7	66
45	Visualization of cation diffusion at the TiO ₂ interface in dye sensitized photoelectrosynthesis cells (DSPEC). <i>Energy and Environmental Science</i> , 2013, 6, 1240.	30.8	25
46	Distance Dependence of Intrahelix Ru ^{II} * to Os ^{II} Polypyridyl Excited-State Energy Transfer in Oligoproline Assemblies. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6352-6363.	2.6	10
47	Accumulation of Multiple Oxidative Equivalents at a Single Site by Cross-Surface Electron Transfer on TiO ₂ . <i>Journal of the American Chemical Society</i> , 2013, 135, 11587-11594.	13.7	68
48	Photoinduced Electron Transfer in a Chromophore-Catalyst Assembly Anchored to TiO ₂ . <i>Journal of the American Chemical Society</i> , 2012, 134, 19189-19198.	13.7	116
49	Self-Assembled Bilayer Films of Ruthenium(II)/Polypyridyl Complexes through Layer-by-Layer Deposition on Nanostructured Metal Oxides. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12782-12785.	13.8	118
50	Hybrid 3D graphene and aligned carbon nanofiber array architectures. <i>RSC Advances</i> , 2012, 2, 8965.	3.6	20
51	Photostability of Phosphonate-Derivatized, Ru ^{II} Polypyridyl Complexes on Metal Oxide Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1462-1469.	8.0	157
52	Structure-Property Relationships in Phosphonate-Derivatized, Ru ^{II} Polypyridyl Dyes on Metal Oxide Surfaces in an Aqueous Environment. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14837-14847.	3.1	156
53	Interfacial Dynamics and Solar Fuel Formation in Dye-Sensitized Photoelectrosynthesis Cells. <i>ChemPhysChem</i> , 2012, 13, 2882-2890.	2.1	41
54	Competing Pathways in the <i>photo</i> -Proton-Coupled Electron Transfer Reduction of		

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55	Photoinduced Stepwise Oxidative Activation of a Chromophore-Catalyst Assembly on TiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1808-1813.	4.6	93
56	Interfacial Electron Transfer Dynamics for [Ru(bpy) ₂ ((4,4'-PO ₃ H ₂) ₂ bpy)] ²⁺ Sensitized TiO ₂ in a Dye-Sensitized Photoelectrosynthesis Cell: Factors Influencing Efficiency and Dynamics. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7081-7091.	3.1	56
57	Interfacial Electron Transfer Dynamics Following Laser Flash Photolysis of [Ru(bpy) ₂ ((4,4'-PO ₃ H ₂) ₂ bpy)] ²⁺ in TiO ₂ Nanoparticle Films in Aqueous Environments. <i>ChemSusChem</i> , 2011, 4, 216-227.	6.8	71
58	Making solar fuels by artificial photosynthesis. <i>Pure and Applied Chemistry</i> , 2011, 83, 749-768.	1.9	123
59	Making Oxygen with Ruthenium Complexes. <i>Accounts of Chemical Research</i> , 2009, 42, 1954-1965.	15.6	788
60	Excited-State Quenching by Proton-Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2007, 129, 6968-6969.	13.7	104
61	Chemical Approaches to Artificial Photosynthesis. 2. <i>Inorganic Chemistry</i> , 2005, 44, 6802-6827.	4.0	887