Thomas J Meyer

List of Publications by Year
in descending order

318 papers	37,193 citations	2963 93 h-index	3476 182 g-index
328 all docs	328 docs citations	328 times ranked	21909 citing authors

#	Article	IF	Citations
1	Contemporary Issues in Electron Transfer Research. The Journal of Physical Chemistry, 1996, 100, 13148-13168.	2.9	1,474
2	Proton-Coupled Electron Transfer. Chemical Reviews, 2007, 107, 5004-5064.	23.0	1,409
3	Proton-Coupled Electron Transfer. Chemical Reviews, 2012, 112, 4016-4093.	23.0	1,389
4	Chemical approaches to artificial photosynthesis. Accounts of Chemical Research, 1989, 22, 163-170.	7.6	1,283
5	Nanostructured Tin Catalysts for Selective Electrochemical Reduction of Carbon Dioxide to Formate. Journal of the American Chemical Society, 2014, 136, 1734-1737.	6.6	1,001
6	The Localized-to-Delocalized Transition in Mixed-Valence Chemistry. Chemical Reviews, 2001, 101, 2655-2686.	23.0	966
7	Chemical Approaches to Artificial Photosynthesis. 2. Inorganic Chemistry, 2005, 44, 6802-6827.	1.9	887
8	Catalytic oxidation of water by an oxo-bridged ruthenium dimer. Journal of the American Chemical Society, 1982, 104, 4029-4030.	6.6	876
9	Making Oxygen with Ruthenium Complexes. Accounts of Chemical Research, 2009, 42, 1954-1965.	7.6	788
10	One Site is Enough. Catalytic Water Oxidation by [Ru(tpy)(bpm)(OH₂)]²⁺ and [Ru(tpy)(bpz)(OH₂)]²⁺. Journal of the American Chemical Society, 2008, 130, 16462-16463.	6.6	628
11	Medium Effects on Charge Transfer in Metal Complexes. Chemical Reviews, 1998, 98, 1439-1478.	23.0	617
12	Polyethylenimine-Enhanced Electrocatalytic Reduction of CO₂ to Formate at Nitrogen-Doped Carbon Nanomaterials. Journal of the American Chemical Society, 2014, 136, 7845-7848.	6.6	591
13	Application of the energy gap law to excited-state decay of osmium(II)-polypyridine complexes: calculation of relative nonradiative decay rates from emission spectral profiles. The Journal of Physical Chemistry, 1986, 90, 3722-3734.	2.9	578
14	The Possible Role of Protonâ€Coupled Electron Transfer (PCET) in Water Oxidation by Photosystemâ€...II. Angewandte Chemie - International Edition, 2007, 46, 5284-5304.	7.2	501
15	Structure and redox properties of the water-oxidation catalyst [(bpy)2(OH2)RuORu(OH2)(bpy)2]4+. Journal of the American Chemical Society, 1985, 107, 3855-3864.	6.6	481
16	Estimation of excited-state redox potentials by electron-transfer quenching. Application of electron-transfer theory to excited-state redox processes. Journal of the American Chemical Society, 1979, 101, 4815-4824.	6.6	455
17	Mechanism of Water Oxidation by Single-Site Ruthenium Complex Catalysts. Journal of the American Chemical Society, 2010, 132, 1545-1557.	6.6	443
18	Electrocatalytic Water Oxidation with a Copper(II) Polypeptide Complex. Journal of the American Chemical Society, 2013, 135, 2048-2051.	6.6	429

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19	Molecular Chromophoreâ€“Catalyst Assemblies for Solar Fuel Applications. Chemical Reviews, 2015, 115, 13006-13049.	23.0	412
20	CO₂ Reduction: From Homogeneous to Heterogeneous Electrocatalysis. Accounts of Chemical Research, 2020, 53, 255-264.	7.6	391
21	Mechanisms of Water Oxidation from the Blue Dimer to Photosystem II. Inorganic Chemistry, 2008, 47, 1727-1752.	1.9	385
22	Chemical approaches to artificial photosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15560-15564.	3.3	366
23	CoP Nanoframes as Bifunctional Electrocatalysts for Efficient Overall Water Splitting. ACS Catalysis, 2020, 10, 412-419.	5.5	361
24	Energy Transfer Dynamics in Metalâ^'Organic Frameworks. Journal of the American Chemical Society, 2010, 132, 12767-12769.	6.6	328
25	Concerning the absorption spectra of the ions M(bpy)32+ (M = Fe, Ru, Os; bpy = 2,2'-bipyridine). Inorganic Chemistry, 1982, 21, 3967-3977.	1.9	320
26	Finding the Way to Solar Fuels with Dye-Sensitized Photoelectrosynthesis Cells. Journal of the American Chemical Society, 2016, 138, 13085-13102.	6.6	317
27	Catalytic Water Oxidation by Single-Site Ruthenium Catalysts. Inorganic Chemistry, 2010, 49, 1277-1279.	1.9	298
28	Concerted O atomâ€“proton transfer in the Oâ€”O bond forming step in water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7225-7229.	3.3	295
29	Selective Electrocatalytic Reduction of CO₂ to Formate by Water-Stable Iridium Dihydride Pincer Complexes. Journal of the American Chemical Society, 2012, 134, 5500-5503.	6.6	293
30	Copper(II) Catalysis of Water Oxidation. Angewandte Chemie - International Edition, 2013, 52, 700-703.	7.2	269
31	Designed Synthesis of Mononuclear Tris(heteroleptic) Ruthenium Complexes Containing Bidentate Polypyridyl Ligands. Inorganic Chemistry, 1995, 34, 6145-6157.	1.9	250
32	[Ru(bpy)3]2+* and other remarkable metal-to-ligand charge transfer (MLCT) excited states. Pure and Applied Chemistry, 2013, 85, 1257-1305.	0.9	244
33	Single-Site, Catalytic Water Oxidation on Oxide Surfaces. Journal of the American Chemical Society, 2009, 131, 15580-15581.	6.6	234
34	Rapid Selective Electrocatalytic Reduction of Carbon Dioxide to Formate by an Iridium Pincer Catalyst Immobilized on Carbon Nanotube Electrodes. Angewandte Chemie - International Edition, 2014, 53, 8709-8713.	7.2	221
35	Molecular-Level Electron Transfer and Excited State Assemblies on Surfaces of Metal Oxides and Glass. Inorganic Chemistry, 1994, 33, 3952-3964.	1.9	216
36	Electrocatalytic reduction of CO2 to CO by polypyridyl ruthenium complexes. Chemical Communications, 2011, 47, 12607.	2.2	209

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37	Electrocatalytic Water Oxidation by a Monomeric Amidate-Ligated Fe(III)â€“Aqua Complex. Journal of the American Chemical Society, 2014, 136, 5531-5534.	6.6	209
38	Copper as a Robust and Transparent Electrocatalyst for Water Oxidation. Angewandte Chemie - International Edition, 2015, 54, 2073-2078.	7.2	209
39	Solar water splitting in a molecular photoelectrochemical cell. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20008-20013.	3.3	203
40	Electrocatalytic reduction of carbon dioxide by 2,2'-bipyridine complexes of rhodium and iridium. Inorganic Chemistry, 1988, 27, 4582-4587.	1.9	200
41	The role of proton coupled electron transfer in water oxidation. Energy and Environmental Science, 2012, 5, 7704.	15.6	198
42	Singleâ€Site Copper(II) Water Oxidation Electrocatalysis: Rate Enhancements with HPO₄^{2â¯} as a Proton Acceptor at pHâ€…8. Angewandte Chemie - International Edition, 2014, 53, 12226-12230.	7.2	188
43	Mechanism of Water Oxidation by the Î¼-Oxo Dimer [(bpy)2(H2O)RuIIIORuIII(OH2)(bpy)2]4+. Journal of the American Chemical Society, 2000, 122, 8464-8473.	6.6	172
44	Splitting CO ₂ into CO and O ₂ by a single catalyst. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15606-15611.	3.3	168
45	[Ru(bpy)2dppz]2+Light-Switch Mechanism in Protic Solvents as Studied through Temperature-Dependent Lifetime Measurementsâ€. Journal of Physical Chemistry A, 2004, 108, 9938-9944.	1.1	161
46	Mechanisms of molecular water oxidation in solution and on oxide surfaces. Chemical Society Reviews, 2017, 46, 6148-6169.	18.7	160
47	Chemically catalyzed net electrochemical oxidation of alcohols, aldehydes, and unsaturated hydrocarbons using the system (trpy)(bpy)Ru(OH2)2+/(trpy)(bpy)RuO2+. Journal of the American Chemical Society, 1980, 102, 2310-2312.	6.6	158
48	Artificial photosynthesis: Where are we now? Where can we go?. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2015, 25, 32-45.	5.6	158
49	Photostability of Phosphonate-Derivatized, Ru^{II} Polypyridyl Complexes on Metal Oxide Surfaces. ACS Applied Materials & Interfaces, 2012, 4, 1462-1469.	4.0	157
50	Structureâ€“Property Relationships in Phosphonate-Derivatized, Ru^{II} Polypyridyl Dyes on Metal Oxide Surfaces in an Aqueous Environment. Journal of Physical Chemistry C, 2012, 116, 14837-14847.	1.5	156
51	Integrating proton coupled electron transfer (PCET) and excited states. Coordination Chemistry Reviews, 2010, 254, 2459-2471.	9.5	155
52	Catalytic and Surfaceâ€Electrocatalytic Water Oxidation by Redox Mediatorâ€“Catalyst Assemblies. Angewandte Chemie - International Edition, 2009, 48, 9473-9476.	7.2	154
53	Hybrid Photoelectrochemical Water Splitting Systems: From Interface Design to System Assembly. Advanced Energy Materials, 2020, 10, 1900399.	10.2	152
54	Binary molecular-semiconductor pâ€“n junctions for photoelectrocatalytic CO2 reduction. Nature Energy, 2019, 4, 290-299.	19.8	149

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55	The Golden Rule. Application for fun and profit in electron transfer, energy transfer, and excited-state decay. Physical Chemistry Chemical Physics, 2012, 14, 13731.	1.3	144
56	Synthetic and mechanistic investigations of the reductive electrochemical polymerization of vinyl-containing complexes of iron(II), ruthenium(II), and osmium(II). Inorganic Chemistry, 1983, 22, 2151-2162.	1.9	143
57	Selective electrocatalytic reduction of carbon dioxide to formate by a water-soluble iridium pincer catalyst. Chemical Science, 2013, 4, 3497.	3.7	142
58	Nonaqueous Catalytic Water Oxidation. Journal of the American Chemical Society, 2010, 132, 17670-17673.	6.6	141
59	Highly luminescent polypyridyl complexes of osmium(II). Journal of the American Chemical Society, 1980, 102, 7383-7385.	6.6	140
60	Polymer-supported CuPd nanoalloy as a synergistic catalyst for electrocatalytic reduction of carbon dioxide to methane. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15809-15814.	3.3	140
61	Visible photoelectrochemical water splitting into H ₂ and O ₂ in a dye-sensitized photoelectrosynthesis cell. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5899-5902.	3.3	136
62	Redox properties of aqua complexes of ruthenium(II) containing the tridentate ligands 2,2':6',2"-terpyridine and tris(1-pyrazolyl)methane. Inorganic Chemistry, 1988, 27, 514-520.	1.9	135
63	Green primary explosives: 5-Nitrotetrazolato-N2-ferrate hierarchies. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10322-10327.	3.3	128
64	Ultrafast Excited-State Energy Migration Dynamics in an Efficient Light-Harvesting Antenna Polymer Based on Ru(II) and Os(II) Polypyridyl Complexes. Journal of the American Chemical Society, 2001, 123, 10336-10347.	6.6	125
65	Base-enhanced catalytic water oxidation by a carboxylateâ€“bipyridine Ru(II) complex. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4935-4940.	3.3	124
66	Making solar fuels by artificial photosynthesis. Pure and Applied Chemistry, 2011, 83, 749-768.	0.9	123
67	Crossing the divide between homogeneous and heterogeneous catalysis in water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20918-20922.	3.3	123
68	Electrocatalytic reduction of CO2 at a chemically modified electrode. Journal of the Chemical Society Chemical Communications, 1985, , 1416.	2.0	121
69	Single catalyst electrocatalytic reduction of CO₂in water to H₂+CO syngas mixtures with water oxidation to O₂. Energy and Environmental Science, 2014, 7, 4007-4012.	15.6	120
70	Selfâ€Assembled Bilayer Films of Ruthenium(II)/Polypyridyl Complexes through Layerâ€byâ€Layer Deposition on Nanostructured Metal Oxides. Angewandte Chemie - International Edition, 2012, 51, 12782-12785.	7.2	118
71	Diffusional Mediation of Surface Electron Transfer on TiO2. Journal of Physical Chemistry B, 1999, 103, 104-107.	1.2	117
72	Oxobis(2,2'-bipyridine)pyridineruthenium(IV) ion, [(bpy)2(py)Ru:O]2+. Journal of the American Chemical Society, 1978, 100, 3601-3603.	6.6	116

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73	Application of High Surface Area Tin-Doped Indium Oxide Nanoparticle Films as Transparent Conducting Electrodes. Inorganic Chemistry, 2010, 49, 8179-8181.	1.9	116
74	Photoinduced Electron Transfer in a Chromophoreâ€“Catalyst Assembly Anchored to TiO₂. Journal of the American Chemical Society, 2012, 134, 19189-19198.	6.6	116
75	Electrocatalytic reduction of CO2 by a complex of rhenium in thin polymeric films. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1989, 259, 217-239.	0.3	115
76	Applications of metal oxide materials in dye sensitized photoelectrosynthesis cells for making solar fuels: let the molecules do the work. Journal of Materials Chemistry A, 2013, 1, 4133.	5.2	115
77	Synthesis of Phosphonic Acid Derivatized Bipyridine Ligands and Their Ruthenium Complexes. Inorganic Chemistry, 2013, 52, 12492-12501.	1.9	114
78	Mediator-assisted water oxidation by the ruthenium â€œblue dimerâ€cis,cis-[(bpy)₂(H₂O)RuORu(OH₂)(bpy)₂⁴⁺. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17632-17635.	3.8	113
79	Hydrogen-atom transfer between metal complex ions in solution. Journal of the American Chemical Society, 1987, 109, 3287-3297.	6.6	109
80	Water Oxidation by an Electropolymerized Catalyst on Derivatized Mesoporous Metal Oxide Electrodes. Journal of the American Chemical Society, 2014, 136, 6578-6581.	6.6	108
81	Excited-State Electron Transfer. Progress in Inorganic Chemistry, 0, , 389-440.	3.0	108
82	Electrocatalytic reduction of CO2 based on polypyridyl complexes of rhodium and ruthenium. Journal of the Chemical Society Chemical Communications, 1985, , 796.	2.0	106
83	Temperature Dependence of Nonradiative Decay. The Journal of Physical Chemistry, 1995, 99, 51-54.	2.9	106
84	Redox Pathways: Applications in Catalysis. Journal of the Electrochemical Society, 1984, 131, 221C-228C.	1.3	105
85	Excited-State Quenching by Proton-Coupled Electron Transfer. Journal of the American Chemical Society, 2007, 129, 6968-6969.	6.6	104
86	Visible Region Photooxidation on TiO2 with a Chromophoreâ^'Catalyst Molecular Assembly. Inorganic Chemistry, 1999, 38, 4386-4387.	1.9	101
87	Stabilization of [Ru(bpy)₂(4,4â€²-(PO₃H₂)bpy)]²⁺ on Mesoporous TiO₂ with Atomic Layer Deposition of Al₂O₃. Chemistry of Materials, 2013, 25, 3-5.	3.2	101
88	Electron transfer quenching of excited states of metal complexes. Journal of the American Chemical Society, 1976, 98, 286-287.	6.6	100
89	A Dye-Sensitized Photoelectrochemical Tandem Cell for Light Driven Hydrogen Production from Water. Journal of the American Chemical Society, 2016, 138, 16745-16753.	6.6	100
90	Manipulating the properties of MLCT excited states. Dalton Transactions RSC, 2002, , 3820.	2.3	99

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91	The Role of Free Energy Change in Coupled Electronâ˜Proton Transfer. Journal of the American Chemical Society, 2007, 129, 15098-15099.	6.6	99
92	Measurement of rates of electron transfer between tris(2,2'-bipyridine)ruthenium(3+) and tris(1,10-phenanthroline)iron(2+) ions and between tris(1,10-phenanthroline)ruthenium(3+) and tris(2,2'-bipyridine)ruthenium(2+) ions by differential excitation flash photolysis. Journal of the American Chemical Society, 1977, 99, 2468-2473.	6.6	98
93	OsIII(N2)OsIIComplexes at the Localized-to-Delocalized, Mixed-Valence Transition. Journal of the American Chemical Society, 1999, 121, 535-544.	6.6	98
94	Defining Electronic Excited States Using Time-Resolved Infrared Spectroscopy and Density Functional Theory Calculationsâ€. Journal of Physical Chemistry A, 2004, 108, 3527-3536.	1.1	96
95	Light-Driven Water Splitting with a Molecular Electroassembly-Based Core/Shell Photoanode. Journal of Physical Chemistry Letters, 2015, 6, 3213-3217.	2.1	94
96	Photoinduced Stepwise Oxidative Activation of a Chromophoreâ€“Catalyst Assembly on TiO₂. Journal of Physical Chemistry Letters, 2011, 2, 1808-1813.	2.1	93
97	Reversible interconversion between a nitrido complex of osmium(VI) and an ammine complex of osmium(II). Journal of the American Chemical Society, 1990, 112, 5507-5514.	6.6	91
98	Electrocatalytic Oxidation of Tyrosine by Parallel Rate-Limiting Proton Transfer and Multisite Electronâ˜Proton Transfer. Journal of the American Chemical Society, 2006, 128, 11020-11021.	6.6	91
99	Catalytic water oxidation on derivatized nanoITO. Dalton Transactions, 2010, 39, 6950.	1.6	91
100	Electrocatalytic reduction of carbon dioxide by associative activation. Organometallics, 1988, 7, 238-240.	1.1	90
101	Cu(II) Aliphatic Diamine Complexes for Both Heterogeneous and Homogeneous Water Oxidation Catalysis in Basic and Neutral Solutions. ACS Catalysis, 2016, 6, 77-83.	5.5	90
102	An aqueous, organic dye derivatized SnO₂/TiO₂ core/shell photoanode. Journal of Materials Chemistry A, 2016, 4, 2969-2975.	5.2	89
103	Mid-Infrared Spectrum of [Ru(bpy)3]2+*. Journal of the American Chemical Society, 1997, 119, 7013-7018.	6.6	88
104	Electroâ€assembly of a Chromophoreâ€“Catalyst Bilayer for Water Oxidation and Photocatalytic Water Splitting. Angewandte Chemie - International Edition, 2015, 54, 4778-4781.	7.2	88
105	CO ₂ reduction to acetate in mixtures of ultrasmall (Cu) _n ,(Ag) _m bimetallic nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 278-283.	3.3	87
106	An Antenna Polymer for Visible Energy Transfer. Journal of the American Chemical Society, 1997, 119, 10243-10244.	6.6	85
107	Stabilizing Small Molecules on Metal Oxide Surfaces Using Atomic Layer Deposition. Nano Letters, 2013, 13, 4802-4809.	4.5	85
108	Electrocatalytic Reduction of Carbon Dioxide: Let the Molecules Do the Work. Topics in Catalysis, 2015, 58, 30-45.	1.3	85

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109	Stabilization of a Ruthenium(II) Polypyridyl Dye on Nanocrystalline TiO₂ by an Electropolymerized Overlayer. Journal of the American Chemical Society, 2013, 135, 15450-15458.	6.6	84
110	Self-assembled molecular p/n junctions for applications in dye-sensitized solar energy conversion. Nature Chemistry, 2016, 8, 845-852.	6.6	84
111	Disentangling the Physical Processes Responsible for the Kinetic Complexity in Interfacial Electron Transfer of Excited Ru(II) Polypyridyl Dyes on TiO₂. Journal of the American Chemical Society, 2016, 138, 4426-4438.	6.6	84
112	Electrochemical Oxidation of Water by an Adsorbed Î¼-Oxo-Bridged Ru Complex. Journal of the American Chemical Society, 2007, 129, 2446-2447.	6.6	83
113	A Half-Reaction Alternative to Water Oxidation: Chloride Oxidation to Chlorine Catalyzed by Silver Ion. Journal of the American Chemical Society, 2015, 137, 3193-3196.	6.6	83
114	Multiple electron oxidation of phenols by an oxo complex of ruthenium(IV). Journal of the American Chemical Society, 1988, 110, 7358-7367.	6.6	80
115	Photochemical Energy Transduction in Helical Proline Arrays. Journal of the American Chemical Society, 1998, 120, 4885-4886.	6.6	80
116	Visible Light Driven Benzyl Alcohol Dehydrogenation in a Dye-Sensitized Photoelectrosynthesis Cell. Journal of the American Chemical Society, 2014, 136, 9773-9779.	6.6	80
117	Water Oxidation Intermediates Applied to Catalysis: Benzyl Alcohol Oxidation. Journal of the American Chemical Society, 2012, 134, 3972-3975.	6.6	79
118	Reactivity of Osmium(VI) Nitrides with the Azide Ion. A New Synthetic Route to Osmium(II) Polypyridyl Complexes. Inorganic Chemistry, 1998, 37, 3610-3619.	1.9	78
119	Experimental demonstration of radicaloid character in a Ru ^V =O intermediate in catalytic water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3765-3770.	3.3	77
120	Cu(ii)/Cu(0) electrocatalyzed CO2 and H2O splitting. Energy and Environmental Science, 2013, 6, 813.	15.6	76
121	Electronic structure in the intervalence transfer absorption band of a mixed-valence dimer. Journal of the American Chemical Society, 1983, 105, 4303-4309.	6.6	75
122	Light-Driven Water Splitting by a Covalently Linked Ruthenium-Based Chromophoreâ€“Catalyst Assembly. ACS Energy Letters, 2017, 2, 124-128.	8.8	75
123	Kinetic relaxation measurement of rapid electron transfer reactions by flash photolysis. Conversion of light energy into chemical energy using the tris(2,2'-bipyridine)ruthenium(3+)-tris(2,2'-bipyridine)ruthenium(2+*) couple. Journal of the American Chemical Society, 1975, 97, 4781-4782.	6.6	74
124	Reactivity of the oxo-bridged ion .mu.-oxobis[bis(2,2'-bipyridine)dioxodiruthenium](3+). Inorganic Chemistry, 1988, 27, 4478-4483.	1.9	72
125	Surface Catalysis of Water Oxidation by the Blue Ruthenium Dimer. Inorganic Chemistry, 2010, 49, 3980-3982.	1.9	72
126	Lowâ€Overpotential Water Oxidation by a Surfaceâ€Bound Rutheniumâ€Chromophoreâ€“Rutheniumâ€Catalyst Assembly. Angewandte Chemie - International Edition, 2013, 52, 13580-13583.	7.2	72

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127	Electrochemical Instability of Phosphonate-Derivatized, Ruthenium(III) Polypyridyl Complexes on Metal Oxide Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 9554-9562.	4.0	72
128	Interfacial Deposition of Ru(II) Bipyridine-Dicarboxylate Complexes by Ligand Substitution for Applications in Water Oxidation Catalysis. Journal of the American Chemical Society, 2018, 140, 719-726.	6.6	72
129	Concerning the electronic structure of the ions M(bpy)33+ (M = Fe, Ru, Os; bpy = 2,2'-bipyridine). Inorganic Chemistry, 1983, 22, 1614-1616.	1.9	71
130	Synthesis and Characterization of Dinuclear Ruthenium Complexes with Tetra-2-pyridylpyrazine as a Bridge. Inorganic Chemistry, 1999, 38, 3200-3206.	1.9	71
131	Interfacial Electron Transfer Dynamics Following Laser Flash Photolysis of [Ru(bpy)₂((4,4â€²â€PO₃H₂)₂bpy)]²⁺ in TiO₂ Nanoparticle Films in Aqueous Environments. ChemSusChem, 2011, 4, 216-227.	3.6	71
132	Atomic Layer Deposition of TiO₂ on Mesoporous nanoITO: Conductive Coreâ€“Shell Photoanodes for Dye-Sensitized Solar Cells. Nano Letters, 2014, 14, 3255-3261.	4.5	71
133	Site-Selective Passivation of Defects in NiO Solar Photocathodes by Targeted Atomic Deposition. ACS Applied Materials & Interfaces, 2016, 8, 4754-4761.	4.0	71
134	Redox Mediator Effect on Water Oxidation in a Ruthenium-Based Chromophoreâ€“Catalyst Assembly. Journal of the American Chemical Society, 2013, 135, 2080-2083.	6.6	70
135	Stabilization of Ruthenium(II) Polypyridyl Chromophores on Nanoparticle Metal-Oxide Electrodes in Water by Hydrophobic PMMA Overlayers. Journal of the American Chemical Society, 2014, 136, 13514-13517.	6.6	70
136	Accumulation of Multiple Oxidative Equivalents at a Single Site by Cross-Surface Electron Transfer on TiO₂. Journal of the American Chemical Society, 2013, 135, 11587-11594.	6.6	68
137	Two Electrode Collectorâ€“Generator Method for the Detection of Electrochemically or Photoelectrochemically Produced O₂. Analytical Chemistry, 2016, 88, 7076-7082.	3.2	67
138	[Ru(bpy)3]2+âˆ— revisited. Is it localized or delocalized? How does it decay?. Coordination Chemistry Reviews, 2017, 345, 86-107.	9.5	67
139	Dye-Sensitized Hydrobromic Acid Splitting for Hydrogen Solar Fuel Production. Journal of the American Chemical Society, 2017, 139, 15612-15615.	6.6	67
140	A Sensitized Nb₂O₅ Photoanode for Hydrogen Production in a Dye-Sensitized Photoelectrosynthesis Cell. Chemistry of Materials, 2013, 25, 122-131.	3.2	66
141	Spatial Electrochromism in Metallopolymeric Films of Ruthenium Polypyridyl Complexes. Chemistry of Materials, 1996, 8, 264-273.	3.2	65
142	Rapid catalyticwateroxidation by a single site, Rucarbenecatalyst. Dalton Transactions, 2011, 40, 3789-3792.	1.6	63
143	Localization in trans,trans-[(tpy)(Cl)2OsIII(N2)OsII(Cl)2(tpy)]+ (tpy = 2,2â€˜:6â€˜,2â€˜â€˜-Terpyridine). Inorganic Chemistry, 1997, 36, 5678-5679.	1.9	62
144	Rapid energy transfer in non-porous metalâ€“organic frameworks with caged Ru(bpy)32+ chromophores: oxygen trapping and luminescence quenching. Journal of Materials Chemistry A, 2013, 1, 14982.	5.2	62

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145	Evaluation of Chromophore and Assembly Design in Light-Driven Water Splitting with a Molecular Water Oxidation Catalyst. ACS Energy Letters, 2016, 1, 231-236.	8.8	62
146	Factors affecting cage escape yields following electron-transfer quenching. The Journal of Physical Chemistry, 1987, 91, 1649-1655.	2.9	61
147	Synthesis and Characterization of Amide-Derivatized, Polypyridyl-Based Metallopolymers. Inorganic Chemistry, 1996, 35, 6299-6307.	1.9	61
148	Making syngas electrocatalytically using a polypyridyl ruthenium catalyst. Chemical Communications, 2014, 50, 335-337.	2.2	61
149	Electrochemical oxidation of ²⁴³ Am(III) in nitric acid by a terpyridyl-derivatized electrode. Science, 2015, 350, 652-655.	6.0	61
150	Proton-coupled electron transfer at modified electrodes by multiple pathways. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E1461-9.	3.3	60
151	An Amide-Linked Chromophoreâ€“Catalyst Assembly for Water Oxidation. Inorganic Chemistry, 2012, 51, 6428-6430.	1.9	60
152	Electron Transfer Mediator Effects in the Oxidative Activation of a Ruthenium Dicarboxylate Water Oxidation Catalyst. ACS Catalysis, 2015, 5, 4404-4409.	5.5	59
153	Phase Behavior and Electrochemical Characterization of Blends of Perfluoropolyether, Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Over	3.2	58
154	Mechanism of Metal-to-Ligand Charge Transfer Sensitization of Olefin Trans-to-Cis Isomerization in the fac-[ReI(phen)(CO)3(1,2-bpe)]+ Cation. Journal of Physical Chemistry A, 2003, 107, 4092-4095.	1.1	57
155	Single-Site, Heterogeneous Electrocatalytic Reduction of CO₂ in Water as the Solvent. ACS Energy Letters, 2017, 2, 1395-1399.	8.8	57
156	Photoelectrochemistry on RuII-2,2â€˜-bipyridine-phosphonate-Derivatized TiO2with the I3-/I-and Quinone/Hydroquinone Relays. Design of Photoelectrochemical Synthesis Cells. Inorganic Chemistry, 2005, 44, 2089-2097.	1.9	56
157	Interfacial Electron Transfer Dynamics for [Ru(bpy)₂((4,4â€²-PO₃H₂)₂bpy)]²⁺ Sensitized TiO₂ in a Dye-Sensitized Photoelectrosynthesis Cell: Factors Influencing Efficiency and Dynamics. Journal of Physical Chemistry C, 2011, 115, 7081-7091.	1.5	56
158	Synthesis and photophysical characterization of porphyrin and porphyrinâ€“Ru(ii) polypyridyl chromophoreâ€“catalyst assemblies on mesoporous metal oxides. Chemical Science, 2014, 5, 3115.	3.7	56
159	Varying the Electronic Structure of Surface-Bound Ruthenium(II) Polypyridyl Complexes. Inorganic Chemistry, 2015, 54, 460-469.	1.9	56
160	Structural and Resonance Raman Studies of an Oxygen-Evolving Catalyst. Crystal Structure of [(bpy)2(H2O)RuIIIORuIV(OH)(bpy)2](ClO4)4. Inorganic Chemistry, 1996, 35, 5885-5892.	1.9	55
161	Layer-by-Layer Molecular Assemblies for Dye-Sensitized Photoelectrosynthesis Cells Prepared by Atomic Layer Deposition. Journal of the American Chemical Society, 2017, 139, 14518-14525.	6.6	55
162	Molecular Photoelectrode for Water Oxidation Inspired by Photosystem II. Journal of the American Chemical Society, 2019, 141, 7926-7933.	6.6	55

#	Article	IF	Citations
163	Steering CO ₂ electroreduction toward ethanol production by a surface-bound Ru polypyridyl carbene catalyst on N-doped porous carbon. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26353-26358.	3.3	55
164	Stable Molecular Photocathode for Solar-Driven CO₂ Reduction in Aqueous Solutions. ACS Energy Letters, 2019, 4, 629-636.	8.8	54
165	Controlling Ground and Excited State Properties through Ligand Changes in Ruthenium Polypyridyl Complexes. Inorganic Chemistry, 2014, 53, 5637-5646.	1.9	53
166	All-in-One Derivatized Tandem p⁺n-Siliconâ€“SnO₂/TiO₂ Water Splitting Photoelectrochemical Cell. Nano Letters, 2017, 17, 2440-2446.	4.5	53
167	Heterostructured Arrays of Ni_xP/S/Se Nanosheets on Co_xP/S/Se Nanowires for Efficient Hydrogen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 41347-41353.	4.0	53
168	Heterointerface Engineering of Ni₂Pâ€“Co₂P Nanoframes for Efficient Water Splitting. Chemistry of Materials, 2021, 33, 9165-9173.	3.2	53
169	Water Photo-oxidation Initiated by Surface-Bound Organic Chromophores. Journal of the American Chemical Society, 2017, 139, 16248-16255.	6.6	52
170	Reactivity of Osmium(VI) Nitrides with the Azide Ion. Inorganic Chemistry, 1998, 37, 838-839.	1.9	51
171	Electronic Structure of the Water Oxidation Catalyst cis,cis-[(bpy)₂(H₂O)Ru^{III}ORu^{III}(OH₂)(bpy)₂]⁴⁺ The Blue Dimer. Inorganic Chemistry, 2012, 51, 1345-1358.	1.9	51
172	One-Electron Activation of Water Oxidation Catalysis. Journal of the American Chemical Society, 2014, 136, 6854-6857.	6.6	51
173	Probing the localized-to-delocalized transition. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 163-175.	1.6	50
174	Synthesis, structure, and redox properties of the triaqua(tris(1-pyrazolyl)methane)ruthenium(II) cation. Inorganic Chemistry, 1990, 29, 3760-3766.	1.9	48
175	Solvent-Induced Electron Transfer and Electronic Delocalization in Mixed-Valence Complexes. Spectral Properties. Journal of the American Chemical Society, 1996, 118, 3730-3737.	6.6	48
176	One-Pot Synthesis and Characterization of a Chromophoreâ^'Donorâ^'Acceptor Assembly. Inorganic Chemistry, 2000, 39, 71-75.	1.9	48
177	Role of Proton-Coupled Electron Transfer in the Redox Interconversion between Benzoquinone and Hydroquinone. Journal of the American Chemical Society, 2012, 134, 18538-18541.	6.6	48
178	Controlling Vertical and Lateral Electron Migration Using a Bifunctional Chromophore Assembly in Dye-Sensitized Photoelectrosynthesis Cells. Journal of the American Chemical Society, 2018, 140, 6493-6500.	6.6	48
179	Photoinduced Interfacial Electron Transfer within a Mesoporous Transparent Conducting Oxide Film. Journal of the American Chemical Society, 2014, 136, 2208-2211.	6.6	47
180	Modulating Hole Transport in Multilayered Photocathodes with Derivatized p-Type Nickel Oxide and Molecular Assemblies for Solar-Driven Water Splitting. Journal of Physical Chemistry Letters, 2017, 8, 4374-4379.	2.1	47

#	Article	IF	Citations
181	Nitrogen atom transfer and redox chemistry of terpyridyl phosphoraniminato complexes of osmium (IV). Inorganica Chimica Acta, 1998, 270, 511-526.	1.2	46
182	Sensitization and Stabilization of TiO2Photoanodes with Electropolymerized Overlayer Films of Ruthenium and Zinc Polypyridyl Complexes:Â A Stable Aqueous Photoelectrochemical Cell. Inorganic Chemistry, 2004, 43, 1784-1792.	1.9	46
183	Instability of the oxidation catalysts ([(bpy)2(py)Ru(O)]2+) and oxo(1,10-phenanthroline)(2,2',2"-terpyridine) ruthenium(2+) ([(trpy)(phen)Ru(O)]2+) in basic solution. Inorganic Chemistry, 1985, 24, 3784-3791.	1.9	45
184	Vibrational Mapping at the Mixed-Valence, Localized-to-Delocalized Transition. Journal of the American Chemical Society, 1998, 120, 7121-7122.	6.6	45
185	Photophysical Characterization of a Chromophore/Water Oxidation Catalyst Containing a Layer-by-Layer Assembly on Nanocrystalline TiO₂ Using Ultrafast Spectroscopy. Journal of Physical Chemistry A, 2014, 118, 10301-10308.	1.1	45
186	Enabling Efficient Creation of Long-Lived Charge-Separation on Dye-Sensitized NiO Photocathodes. ACS Applied Materials & Interfaces, 2017, 9, 26786-26796.	4.0	45
187	Nanotechnology for catalysis and solar energy conversion. Nanotechnology, 2021, 32, 042003.	1.3	44
188	Spectroscopy and Dynamics of Phosphonate-Derivatized Ruthenium Complexes on TiO₂. Journal of Physical Chemistry C, 2013, 117, 812-824.	1.5	43
189	Driving Force Dependent, Photoinduced Electron Transfer at Degenerately Doped, Optically Transparent Semiconductor Nanoparticle Interfaces. Journal of the American Chemical Society, 2014, 136, 15869-15872.	6.6	43
190	trans-Chromophoreâ^'Quencher Complexes Based on Ruthenium(II). Inorganic Chemistry, 1996, 35, 4575-4584.	1.9	41
191	Formation and Reactivity of the Osmium(IV)-Cyanoimido Complex [OsIV(bpy)(Cl)3(NCN)]â^'. Angewandte Chemie - International Edition, 2001, 40, 3037-3039.	7.2	41
192	Interfacial Dynamics and Solar Fuel Formation in Dyeâ€Sensitized Photoelectrosynthesis Cells. ChemPhysChem, 2012, 13, 2882-2890.	1.0	41
193	Watching Photoactivation in a Ru(II) Chromophoreâ€"Catalyst Assembly on TiO₂ by Ultrafast Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 24250-24258.	1.5	41
194	Ultrafast Recombination Dynamics in Dye-Sensitized SnO₂/TiO₂ Core/Shell Films. Journal of Physical Chemistry Letters, 2016, 7, 5297-5301.	2.1	41
195	Simultaneous Electrosynthesis of Syngas and an Aldehyde from CO₂ and an Alcohol by Molecular Electrocatalysis. ACS Applied Energy Materials, 2019, 2, 97-101.	2.5	41
196	Light-Driven Water Oxidation Using Polyelectrolyte Layer-by-Layer Chromophoreâ€"Catalyst Assemblies. ACS Energy Letters, 2016, 1, 339-343.	8.8	40
197	Surface Control of Oxidation by an Adsorbed RuIVâ^'Oxo Complex. Journal of the American Chemical Society, 2001, 123, 5308-5312.	6.6	39
198	Energy Transfer between Ru(II) and Os(II) Polypyridyl Complexes Linked to Polystyreneâ€. Journal of Physical Chemistry A, 2002, 106, 2328-2334.	1.1	39

#	Article	IF	Citations
199	Stabilization of a molecular water oxidation catalyst on a dyeâ^'sensitized photoanode by aÂpyridyl anchor. Nature Communications, 2020, 11, 4610.	5.8	38
200	Trans-Cis Isomerization in [Os(tpy)(Cl)2(N)]+. Inorganic Chemistry, 1995, 34, 586-592.	1.9	37
201	Stabilized photoanodes for water oxidation by integration of organic dyes, water oxidation catalysts, and electron-transfer mediators. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8523-8528.	3.3	37
202	Electrocatalytic CO₂ Reduction with a Ruthenium Catalyst in Solution and on Nanocrystalline TiO₂. ChemSusChem, 2019, 12, 2402-2408.	3.6	37
203	Formation and O-Atom Reactivity of the Os(IV)â^'Sulfilimido and Os(IV)â^'Sulfoximido Complexes,cis-/trans-[OsIV(tpy)(Cl)2(NSC6H3Me2)] andcis-/trans-[OsIV(tpy)(Cl)2(NS(O)C6H3Me2)]. Journal of the American Chemical Society, 2001, 123, 9170-9171.	6.6	36
204	Soluble Reduced Graphene Oxide Sheets Grafted with Polypyridylruthenium-Derivatized Polystyrene Brushes as Light Harvesting Antenna for Photovoltaic Applications. ACS Nano, 2013, 7, 7992-8002.	7.3	36
205	Application of Degenerately Doped Metal Oxides in the Study of Photoinduced Interfacial Electron Transfer. Journal of Physical Chemistry B, 2015, 119, 7698-7711.	1.2	36
206	Oxidation of alkyl benzenes by a flavin photooxidation catalyst on nanostructured metal-oxide films. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9279-9283.	3.3	36
207	Synthesis and Electrocatalytic Water Oxidation by Electrode-Bound Helical Peptide Chromophoreâ€"Catalyst Assemblies. Inorganic Chemistry, 2014, 53, 8120-8128.	1.9	35
208	Ultrafast Dynamics in Multifunctional Ru(II)-Loaded Polymers for Solar Energy Conversion. Accounts of Chemical Research, 2015, 48, 818-827.	7.6	35
209	Visible Photoelectrochemical Water Splitting Based on a Ru(II) Polypyridyl Chromophore and Iridium Oxide Nanoparticle Catalyst. Journal of Physical Chemistry C, 2015, 119, 17023-17027.	1.5	35
210	Reversible Osmium(VI) Nitrido to Osmium(II) Ammine Interconversion in Complexes Containing Polypyrazolyl Ligands. Inorganic Chemistry, 2001, 40, 3677-3686.	1.9	34
211	Nonaqueous Electrocatalytic Oxidation of the Alkylaromatic Ethylbenzene by a Surface Bound Ru^V(O) Catalyst. ACS Catalysis, 2012, 2, 716-719.	5.5	34
212	Stabilizing chromophore binding on TiO₂ for long-term stability of dye-sensitized solar cells using multicomponent atomic layer deposition. Physical Chemistry Chemical Physics, 2014, 16, 8615-8622.	1.3	34
213	Efficient Light-Driven Oxidation of Alcohols Using an Organic Chromophoreâ€"Catalyst Assembly Anchored to TiO₂. ACS Applied Materials & Interfaces, 2016, 8, 9125-9133.	4.0	34
214	A Silicon-Based Heterojunction Integrated with a Molecular Excited State in a Water-Splitting Tandem Cell. Journal of the American Chemical Society, 2019, 141, 10390-10398.	6.6	34
215	Self-Assembled Bilayers on Indiumâ€"Tin Oxide (SAB-ITO) Electrodes: A Design for Chromophoreâ€"Catalyst Photoanodes. Inorganic Chemistry, 2012, 51, 8637-8639.	1.9	33
216	Electron Transfer Mediator Effects in Water Oxidation Catalysis by Solution and Surface-Bound Ruthenium Bpy-Dicarboxylate Complexes. Journal of Physical Chemistry C, 2015, 119, 25420-25428.	1.5	33

#	Article	IF	Citations
217	Photophysics and Photochemistry of Chromophoreâ^'Quencher Assemblies on Glass and Powdered Silica. Inorganic Chemistry, 1996, 35, 2898-2901.	1.9	32
218	Oxidation-Reduction and Related Reactions of Metal-Metal Bonds. Progress in Inorganic Chemistry, 2007, , 1-50.	3.0	32
219	Chromophore-Catalyst Assembly for Water Oxidation Prepared by Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2017, 9, 39018-39026.	4.0	32
220	A stable dye-sensitized photoelectrosynthesis cell mediated by a NiO overlayer for water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12564-12571.	3.3	32
221	Polymer Chromophore-Catalyst Assembly for Solar Fuel Generation. ACS Applied Materials & Interfaces, 2017, 9, 19529-19534.	4.0	31
222	Lightâ€Driven Water Splitting Mediated by Photogenerated Bromine. Angewandte Chemie - International Edition, 2018, 57, 3449-3453.	7.2	31
223	Excited State Interactions in Electropolymerized Thin Films of RuII, OsII, and ZnII Polypyridyl Complexes. Journal of Physical Chemistry A, 1997, 101, 4535-4540.	1.1	30
224	Multiple Pathways for Benzyl Alcohol Oxidation by RuVâ•Ơ3+and RuIVâ•Ơ2+. Inorganic Chemistry, 2011, 50, 1167-1169.	1.9	30
225	Chloride-assisted catalytic water oxidation. Chemical Communications, 2014, 50, 8053.	2.2	30
226	Photophysical Characterization of a Helical Peptide Chromophoreâ€“Water Oxidation Catalyst Assembly on a Semiconductor Surface Using Ultrafast Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 6029-6037.	1.5	30
227	Concerted Electronâ€“Proton Transfer (EPT) in the Oxidation of Cysteine. Journal of Physical Chemistry C, 2015, 119, 7028-7038.	1.5	30
228	Visible-Light-Driven Photocatalytic Water Oxidation by a Ï€-Conjugated Donorâ€“Acceptorâ€“Donor Chromophore/Catalyst Assembly. ACS Energy Letters, 2018, 3, 2114-2119.	8.8	30
229	Interpretation of the Time-Resolved Resonance Raman Spectrum of [Ru(phen)3]2+*. Inorganic Chemistry, 1998, 37, 2585-2587.	1.9	29
230	Reactivity of an Adsorbed Ru(VI)â^'Oxo Complex:Â Oxidation of Benzyl Alcohol. Inorganic Chemistry, 2007, 46, 8139-8145.	1.9	29
231	Controlled Electropolymerization of Ruthenium(II) Vinylbipyridyl Complexes in Mesoporous Nanoparticle Films of TiO₂. Angewandte Chemie - International Edition, 2014, 53, 4872-4876.	7.2	29
232	Phosphonate-Derivatized Porphyrins for Photoelectrochemical Applications. ACS Applied Materials & Interfaces, 2016, 8, 3853-3860.	4.0	29
233	A Molecular Silane-Derivatized Ru(II) Catalyst for Photoelectrochemical Water Oxidation. Journal of the American Chemical Society, 2018, 140, 15062-15069.	6.6	29
234	Electronic Structure in Pyridinium-Based Metal-to-Ligand Charge-Transfer Excited States by Step-Scan FTIR Time-Resolved Spectroscopy. Journal of Physical Chemistry A, 1998, 102, 3042-3047.	1.1	28

#	Article	IF	Citations
235	Oxidizing water two ways. Nature Chemistry, 2011, 3, 757-758.	6.6	28
236	A High-Valent Metal-Oxo Species Produced by Photoinduced One-Electron, Two-Proton Transfer Reactivity. Inorganic Chemistry, 2018, 57, 486-494.	1.9	28
237	A molecular tandem cell for efficient solar water splitting. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13256-13260.	3.3	28
238	Direct observation of light-driven, concerted electronâ€“proton transfer. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11106-11109.	3.3	27
239	Mid-Infrared Spectrum of [Ru(phen)3]2+*. Inorganic Chemistry, 1998, 37, 3505-3508.	1.9	26
240	Step-Scan FTIR Time-Resolved Spectroscopy Study of Excited-State Dipole Orientation in Soluble Metallopolymers. Inorganic Chemistry, 2000, 39, 893-898.	1.9	26
241	Surface Activation of Electrocatalysis at Oxide Electrodes. Concerted Electronâ^'Proton Transfer. Inorganic Chemistry, 2011, 50, 2076-2078.	1.9	26
242	Electronic Properties and Structure of Assemblies of CdSe Nanocrystal Quantum Dots and Ruâ€Polypyridine Complexes Probed by Steady State and Timeâ€Resolved Photoluminescence. Advanced Functional Materials, 2011, 21, 3159-3168.	7.8	26
243	Visualization of cation diffusion at the TiO2 interface in dye sensitized photoelectrosynthesis cells (DSPEC). Energy and Environmental Science, 2013, 6, 1240.	15.6	25
244	Generation of Long-Lived Redox Equivalents in Self-Assembled Bilayer Structures on Metal Oxide Electrodes. Journal of Physical Chemistry C, 2017, 121, 5882-5890.	1.5	24
245	Vibrational and structural mapping of [Os(bpy)3]3+/2+ and [Os(phen)3]3+/2+. Inorganica Chimica Acta, 2007, 360, 1143-1153.	1.2	23
246	Plasmon-enhanced light-driven water oxidation by a dye-sensitized photoanode. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9809-9813.	3.3	23
247	Direct photoactivation of a nickel-based, water-reduction photocathode by a highly conjugated supramolecular chromophore. Energy and Environmental Science, 2018, 11, 447-455.	15.6	23
248	A donor-chromophore-catalyst assembly for solar CO₂ reduction. Chemical Science, 2019, 10, 4436-4444.	3.7	23
249	Electron-Withdrawing Boron Dipyrromethene Dyes As Visible Light Absorber/Sensitizers on Semiconductor Oxide Surfaces. ACS Applied Materials & Interfaces, 2020, 12, 7768-7776.	4.0	23
250	Electron Transfer Reactions Induced by Excited State Quenching. Israel Journal of Chemistry, 1976, 15, 200-205.	1.0	22
251	Electropolymerization of Macromers Containing Ruthenium(II) Polypridyl Complexes. Inorganic Chemistry, 1996, 35, 5962-5963.	1.9	22
252	High Surface Area Antimony-Doped Tin Oxide Electrodes Templated by Graft Copolymerization. Applications in Electrochemical and Photoelectrochemical Catalysis. ACS Applied Materials & Interfaces, 2015, 7, 25121-25128.	4.0	22

#	Article	IF	Citations
253	Self-Assembled Chromophoreâ€“Catalyst Bilayer for Water Oxidation in a Dye-Sensitized Photoelectrosynthesis Cell. Journal of Physical Chemistry C, 2019, 123, 30039-30045.	1.5	22
254	Calculation of Rate Constants from Spectra. Advances in Chemistry Series, 1997, , 183-198.	0.6	21
255	Atom Transfer Radical Polymerization Preparation and Photophysical Properties of Polypyridylruthenium Derivatized Polystyrenes. Inorganic Chemistry, 2013, 52, 8511-8520.	1.9	21
256	Ultrafast, Light-Induced Electron Transfer in a Perylene Diimide Chromophore-Donor Assembly on TiO₂. Journal of Physical Chemistry Letters, 2015, 6, 4736-4742.	2.1	20
257	Completing a Charge Transport Chain for Artificial Photosynthesis. Journal of the American Chemical Society, 2018, 140, 9823-9826.	6.6	20
258	Reduction of nitrate ion by (bpy)2pyRu(OH2)2+. Journal of the American Chemical Society, 1979, 101, 1326-1328.	6.6	19
259	Electrocatalysis in Photochemically Activated Electropolymerized Thin Films. Inorganic Chemistry, 2000, 39, 1052-1058.	1.9	19
260	Charge Transfer from Upconverting Nanocrystals to Semiconducting Electrodes: Optimizing Thermodynamic Outputs by Electronic Energy Transfer. Journal of the American Chemical Society, 2019, 141, 463-471.	6.6	19
261	Solar Fuels and Next Generation Photovoltaics: The UNC-CH Energy Frontier Research Center. Catalysis Letters, 2011, 141, 1-7.	1.4	18
262	Stable Molecular Surface Modification of Nanostructured, Mesoporous Metal Oxide Photoanodes by Silane and Click Chemistry. ACS Applied Materials & Interfaces, 2019, 11, 4560-4567.	4.0	18
263	DESIGN AND SYNTHESIS OF MIXED-VALENCE COMPLEXES. Annals of the New York Academy of Sciences, 1978, 313, 496-508.	1.8	17
264	Fundamental Factors Impacting the Stability of Phosphonate-Derivatized Ruthenium Polypyridyl Sensitizers Adsorbed on Metal Oxide Surfaces. ACS Applied Materials & Interfaces, 2018, 10, 22821-22833.	4.0	17
265	Crossing the bridge from molecular catalysis to a heterogenous electrode in electrocatalytic water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11153-11158.	3.3	17
266	Proton-Coupled Electron Transfer Reduction of a Quinone by an Oxide-Bound Riboflavin Derivative. Journal of Physical Chemistry C, 2016, 120, 23984-23988.	1.5	16
267	Analysis of Homogeneous Water Oxidation Catalysis with Collectorâ€“Generator Cells. Inorganic Chemistry, 2016, 55, 512-517.	1.9	16
268	Inner Layer Control of Performance in a Dye-Sensitized Photoelectrosynthesis Cell. ACS Applied Materials & Interfaces, 2017, 9, 33533-33538.	4.0	16
269	Photodriven water oxidation initiated by a surface bound chromophore-donor-catalyst assembly. Chemical Science, 2021, 12, 14441-14450.	3.7	16
270	Application of time-resolved near-infrared spectroscopy (TRNIR) to the metal-to-ligand charge transfer (MLCT) excited state(s) of. Chemical Physics, 2006, 326, 71-78.	0.9	15

#	Article	IF	Citations
271	Competing Pathways in the photo-Proton-Coupled Electron Transfer Reduction of		

#	Article	IF	Citations
289	Coordination Chemistry in Thin Polymeric Films of poly-[Fe(vbpy)2(CN)2],poly-vbpy. Binding and Reduction of [Rh(COD)Cl] and PdCl2. Chemistry of Materials, 1996, 8, 2461-2467.	3.2	8
290	Synthesis, Electrochemistry, and Excited-State Properties of Three Ru(II) Quaterpyridine Complexes. Journal of Physical Chemistry A, 2016, 120, 1845-1852.	1.1	8
291	Application of Atomic Layer Deposition in Dye-Sensitized Photoelectrosynthesis Cells. Trends in Chemistry, 2021, 3, 59-71.	4.4	7
292	Light-Driven Water Splitting in the Dye-Sensitized Photoelectrosynthesis Cell. Green Chemistry and Sustainable Technology, 2018, , 229-257.	0.4	6
293	Chemical approaches to artificial photosynthesis: A molecular, dye-sensitized photoanode for O2 production prepared by layer-by-layer self-assembly. Journal of Chemical Physics, 2020, 152, 244706.	1.2	6
294	AB569, a nontoxic chemical tandem that kills major human pathogenic bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4921-4930.	3.3	6
295	Water oxidation by a noble metal-free photoanode modified with an organic dye and a molecular cobalt catalyst. Journal of Materials Chemistry A, 2022, 10, 9121-9128.	5.2	6
296	An Excited State Photoelectrochemical Cell for the Production of O2Based on Oxidative Quenching of Ru(bpy)2+3. Israel Journal of Chemistry, 1982, 22, 153-157.	1.0	5
297	Excited-State Electron Transfer. ACS Symposium Series, 1983, , 157-176.	0.5	5
298	Step-Scan Fourier Transform Infrared Absorption Difference Time-Resolved Spectroscopy Studies of Excited State Decay Kinetics and Electronic Structure of Low-Spin d⁶ Transition Metal Polypyridine Complexes With 10 Nanosecond Time Resolution. Laser Chemistry, 1999, 19, 291-298.	0.5	5
299	Tris(Bidentate)Ruthenium(II) Bis[Hexafluorophosphate] Complexes. Inorganic Syntheses, 2007, , 107-110.	0.3	5
300	Interfacial Dynamics within an Organic Chromophore-Based Water Oxidation Molecular Assembly. ACS Applied Materials & Interfaces, 2017, 9, 16651-16659.	4.0	5
301	Light-driven water oxidation by a dye-sensitized photoanode with a chromophore/catalyst assembly on a mesoporous double-shell electrode. Journal of Chemical Physics, 2019, 150, 041727.	1.2	5
302	Dye-Sensitized Nonstoichiometric Strontium Titanate Coreâ€“Shell Photocathodes for Photoelectrosynthesis Applications. ACS Applied Materials & Interfaces, 2021, 13, 15261-15269.	4.0	5
303	Design and characterization of surface molecular assemblies for the preparation of solar fuels. Chemical Physics Reviews, 2022, 3, .	2.6	5
304	Kinetics of isomerization for the proline helical forms of two oligoproline redox arrays by circular dichroic spectropolarimetry. International Journal of Peptide Research and Therapeutics, 1999, 6, 61-69.	0.1	4
305	Spectroscopic Determination of Electron Transfer Barriers and Rate Constants. Advances in Chemical Physics, 2007, , 553-570.	0.3	4
306	A Semiconductorâ€Mediatorâ€Catalyst Artificial Photosynthetic System for Photoelectrochemical Water Oxidation. Chemistry - A European Journal, 2022, 28, e202102630.	1.7	4

#	Article	IF	Citations
307	Transfer of Solution Reactivity Properties to Electrode Surfaces. ACS Symposium Series, 1982, , 133-158.	0.5	3
308	A strategy for stabilizing the catalyst Co ₄ O ₄ in a metalâ€“organic framework. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13719-13720.	3.3	3
309	Influence of Surface and Structural Variations in Donorâ€“Acceptorâ€“Donor Sensitizers on Photoelectrocatalytic Water Splitting. ACS Applied Materials & Interfaces, 2021, 13, 47499-47510.	4.0	3
310	Optical Charge-Transfer Transitions. ACS Symposium Series, 1982, , 137-150.	0.5	1
311	Title is missing!. International Journal of Peptide Research and Therapeutics, 1999, 6, 61-69.	0.1	1
312	Introduction to ACS Catalysis' Special Issue on Electrocatalysis. ACS Catalysis, 2012, 2, 899-900.	5.5	1
313	The University of North Carolina Energy Frontier Research Center: Center for Solar Fuels. ACS Energy Letters, 2016, 1, 872-874.	8.8	1
314	Proton-Coupled Electron Transfer in the Oxidation of Guanosine Monophosphate by Ru(bpy)₃³⁺. Journal of Physical Chemistry C, 2018, 122, 24830-24837.	1.5	1
315	A Novel Bactericidal Drug Effective Against Gram-Positive and Gram-Negative Pathogenic Bacteria: Easy as AB569. DNA and Cell Biology, 2020, 39, 1473-1477.	0.9	1
316	Catalytic Interconversion of the Quinone/Hydroquinone Couple by a Surface-Bound Os(III/II) Polypyridyl Couple. Journal of Physical Chemistry C, 2018, 122, 16189-16194.	1.5	0
317	Ruthenium Dyes, Charge Transfer, and the Sun. ECS Meeting Abstracts, 2021, MA2021-01, 1812-1812.	0.0	0
318	Henry Taube. 30 November 1915â€”16 November 2005. Biographical Memoirs of Fellows of the Royal Society, 2021, 70, 409-418.	0.1	0