Gary W Brudvig

List of Publications by Year
in descending order

263 papers	23,048 citations	8172 76 h-index	9090 144 g-index
276 all docs	276 docs citations	276 times ranked	17271 citing authors

#	Article	IF	Citations
1	Water-Splitting Chemistry of Photosystem II. Chemical Reviews, 2006, 106, 4455-4483.	23.0	1,444
2	Comparing Photosynthetic and Photovoltaic Efficiencies and Recognizing the Potential for Improvement. Science, 2011, 332, 805-809.	6.0	1,369
3	Molecular Catalysts for Water Oxidation. Chemical Reviews, 2015, 115, 12974-13005.	23.0	964
4	A Functional Model for O-O Bond Formation by the O2-Evolving Complex in Photosystem II. Science, 1999, 283, 1524-1527.	6.0	701
5	Oxidation of Organic Compounds in Water by Unactivated Peroxymonosulfate. Environmental Science & Technology, 2018, 52, 5911-5919.	4.6	576
6	Highly Active and Robust Cp* Iridium Complexes for Catalytic Water Oxidation. Journal of the American Chemical Society, 2009, 131, 8730-8731.	6.6	561
7	Active sites of copper-complex catalytic materials for electrochemical carbon dioxide reduction. Nature Communications, 2018, 9, 415.	5.8	527
8	Half-Sandwich Iridium Complexes for Homogeneous Water-Oxidation Catalysis. Journal of the American Chemical Society, 2010, 132, 16017-16029.	6.6	507
9	Electrochemical CO₂ Reduction to Hydrocarbons on a Heterogeneous Molecular Cu Catalyst in Aqueous Solution. Journal of the American Chemical Society, 2016, 138, 8076-8079.	6.6	450
10	Energy Conversion in Natural and Artificial Photosynthesis. Chemistry and Biology, 2010, 17, 434-447.	6.2	366
11	Quantum Mechanics/Molecular Mechanics Study of the Catalytic Cycle of Water Splitting in Photosystem II. Journal of the American Chemical Society, 2008, 130, 3428-3442.	6.6	345
12	Light-driven water oxidation for solar fuels. Coordination Chemistry Reviews, 2012, 256, 2503-2520.	9.5	337
13	Characterization of the O2-Evolving Reaction Catalyzed by [(terpy)(H2O)MnIII(O)2MnIV(OH2)(terpy)](NO3)3(terpy = 2,2â€˜:6,2â€˜Ââ€˜-Terpyridine). Journal of the American Chemical Society, 2001, 123, 423-430.	6.6	336
14	Distinguishing Homogeneous from Heterogeneous Catalysis in Electrode-Driven Water Oxidation with Molecular Iridium Complexes. Journal of the American Chemical Society, 2011, 133, 10473-10481.	6.6	293
15	Artificial photosynthesis as a frontier technology for energy sustainability. Energy and Environmental Science, 2013, 6, 1074.	15.6	284
16	A visible light water-splitting cell with a photoanode formed by codeposition of a high-potential porphyrin and an iridium water-oxidation catalyst. Energy and Environmental Science, 2011, 4, 2389.	15.6	257
17	A molecular catalyst for water oxidation that binds to metal oxide surfaces. Nature Communications, 2015, 6, 6469.	5.8	256
18	Facet-Dependent Photoelectrochemical Performance of TiO₂ Nanostructures: An Experimental and Computational Study. Journal of the American Chemical Society, 2015, 137, 1520-1529.	6.6	242

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19	Electron transfer in photosystem II at cryogenic temperatures. Biochemistry, 1985, 24, 8114-8120.	1.2	229
20	Stable iridium dinuclear heterogeneous catalysts supported on metal-oxide substrate for solar water oxidation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2902-2907.	3.3	229
21	Comparison of primary oxidants for water-oxidation catalysis. Chemical Society Reviews, 2013, 42, 2247-2252.	18.7	227
22	Anodic deposition of a robust iridium-based water-oxidation catalyst from organometallic precursors. Chemical Science, 2011, 2, 94-98.	3.7	219
23	S₁-State Model of the O₂-Evolving Complex of Photosystem II. Biochemistry, 2011, 50, 6308-6311.	1.2	210
24	Structure-based mechanism of photosynthetic water oxidation. Physical Chemistry Chemical Physics, 2004, 6, 4754.	1.3	201
25	Precursor Transformation during Molecular Oxidation Catalysis with Organometallic Iridium Complexes. Journal of the American Chemical Society, 2013, 135, 10837-10851.	6.6	193
26	Anchoring groups for photocatalytic water oxidation on metal oxide surfaces. Chemical Society Reviews, 2017, 46, 6099-6110.	18.7	189
27	Water oxidation chemistry of photosystem II. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1211-1219.	1.8	188
28	A guide to electron paramagnetic resonance spectroscopy of Photosystem II membranes. Biochimica Et Biophysica Acta - Bioenergetics, 1991, 1056, 1-18.	0.5	187
29	Quantifying the Ion Selectivity of the Ca2+Site in Photosystem II:Â Evidence for Direct Involvement of Ca2+in O2Formationâ€. Biochemistry, 2001, 40, 7937-7945.	1.2	173
30	The O₂-Evolving Complex of Photosystem II: Recent Insights from Quantum Mechanics/Molecular Mechanics (QM/MM), Extended X-ray Absorption Fine Structure (EXAFS), and Femtosecond X-ray Crystallography Data. Accounts of Chemical Research, 2017, 50, 41-48.	7.6	168
31	Electroreduction of CO₂ Catalyzed by a Heterogenized Znâ€"Porphyrin Complex with a Redox-Innocent Metal Center. ACS Central Science, 2017, 3, 847-852.	5.3	165
32	Progress Toward a Molecular Mechanism of Water Oxidation in Photosystem II. Annual Review of Physical Chemistry, 2017, 68, 101-116.	4.8	159
33	Iridium-based complexes for water oxidation. Dalton Transactions, 2015, 44, 12452-12472.	1.6	156
34	Acetylacetonate Anchors for Robust Functionalization of TiO₂Nanoparticles with Mn(II)âˆ'Terpyridine Complexes. Journal of the American Chemical Society, 2008, 130, 14329-14338.	6.6	151
35	Electrocatalytic Water Oxidation by a Copper(II) Complex of an Oxidation-Resistant Ligand. ACS Catalysis, 2017, 7, 3384-3387.	5.5	149
36	Computational studies of the O2-evolving complex of photosystem II and biomimetic oxomanganese complexes. Coordination Chemistry Reviews, 2008, 252, 395-415.	9.5	146

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37	The effect of temperature on the formation and decay of the multiline EPR signal species associated with photosynthetic oxygen evolution. Biochimica Et Biophysica Acta - Bioenergetics, 1983, 723, 366-371.	0.5	145
38	Ammonia binds to the manganese site of the oxygen-evolving complex of photosystem II in the S2 state. Journal of the American Chemical Society, 1986, 108, 4018-4022.	6.6	143
39	Photosynthetic Water Oxidation: Insights from Manganese Model Chemistry. Accounts of Chemical Research, 2015, 48, 567-574.	7.6	142
40	QM/MM Models of the O2-Evolving Complex of Photosystem II. Journal of Chemical Theory and Computation, 2006, 2, 1119-1134.	2.3	136
41	Comparison of heterogenized molecular and heterogeneous oxide catalysts for photoelectrochemical water oxidation. Energy and Environmental Science, 2016, 9, 1794-1802.	15.6	136
42	Structuralâ€“Functional Role of Chloride in Photosystem II. Biochemistry, 2011, 50, 6312-6315.	1.2	132
43	Mechanistic Study of an Improved Ni Precatalyst for Suzukiâ€“Miyaura Reactions of Aryl Sulfamates: Understanding the Role of Ni(I) Species. Journal of the American Chemical Society, 2017, 139, 922-936.	6.6	130
44	Energy Conversion in Photosynthesis: A Paradigm for Solar Fuel Production. Annual Review of Condensed Matter Physics, 2011, 2, 303-327.	5.2	129
45	Dimer-of-Dimers Model for the Oxygen-Evolving Complex of Photosystem II. Synthesis and Properties of [MnIV4O5(terpy)4(H2O)2](ClO4)6. Journal of the American Chemical Society, 2004, 126, 7345-7349.	6.6	127
46	An Iridium(IV) Species, [Cp*Ir(NHC)Cl]⁺, Related to a Water-Oxidation Catalyst. Organometallics, 2011, 30, 965-973.	1.1	127
47	Heme biomolecule as redox mediator and oxygen shuttle for efficient charging of lithium-oxygen batteries. Nature Communications, 2016, 7, 12925.	5.8	122
48	Hematiteâ€Based Solar Water Splitting in Acidic Solutions: Functionalization by Monoâ€•and Multilayers of Iridium Oxygenâ€Evolution Catalysts. Angewandte Chemie - International Edition, 2015, 54, 11428-11432.	7.2	121
49	Ultrafast photodriven intramolecular electron transfer from an iridium-based water-oxidation catalyst to perylene diimide derivatives. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15651-15656.	3.3	118
50	Plasmonic Enhancement of Dye-Sensitized Solar Cells Using Coreâ€“Shellâ€“Shell Nanostructures. Journal of Physical Chemistry C, 2013, 117, 927-934.	1.5	117
51	Characterization of Carotenoid and Chlorophyll Photooxidation in Photosystem II. Biochemistry, 2001, 40, 193-203.	1.2	114
52	A Model of the Oxygen-Evolving Center of Photosystem II Predicted by Structural Refinement Based on EXAFS Simulations. Journal of the American Chemical Society, 2008, 130, 6728-6730.	6.6	110
53	Magnetic properties of manganese in the photosynthetic oxygen-evolving complex. Journal of the American Chemical Society, 1985, 107, 2643-2648.	6.6	109
54	Manganese and calcium requirements for reconstitution of oxygen-evolution activity in manganese-depleted photosystem II membranes. Biochemistry, 1989, 28, 8181-8190.	1.2	108

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55	Electrochemical Activation of Cp* Iridium Complexes for Electrode-Driven Water-Oxidation Catalysis. Journal of the American Chemical Society, 2014, 136, 13826-13834.	6.6	105
56	Oxygen-evolving complex of Photosystem II: an analysis of second-shell residues and hydrogen-bonding networks. Current Opinion in Chemical Biology, 2015, 25, 152-158.	2.8	102
57	Active and resting states of the oxygen-evolving complex of photosystem II. Biochemistry, 1985, 24, 3035-3043.	1.2	100
58	Binding of amines to the oxygen-evolving center of photosystem II. Biochemistry, 1986, 25, 6479-6486.	1.2	99
59	Water-stable, hydroxamate anchors for functionalization of TiO2 surfaces with ultrafast interfacial electron transfer. Energy and Environmental Science, 2010, 3, 917.	15.6	99
60	Proton-coupled electron transfer in manganese complex [(bpy)2Mn(O)2Mn(bpy)2]3+. Journal of the American Chemical Society, 1989, 111, 9249-9250.	6.6	98
61	S₀-State Model of the Oxygen-Evolving Complex of Photosystem II. Biochemistry, 2013, 52, 7703-7706.	1.2	97
62	Bioinorganic Chemistry of Manganese Related to Photosynthetic Oxygen Evolution. Progress in Inorganic Chemistry, 0, , 99-142.	3.0	94
63	Quantum mechanics/molecular mechanics structural models of the oxygen-evolving complex of photosystem II. Current Opinion in Structural Biology, 2007, 17, 173-180.	2.6	91
64	Hydroxamate anchors for water-stable attachment to TiO2 nanoparticles. Energy and Environmental Science, 2009, 2, 1173.	15.6	91
65	Mutation of Lysine 317 in the D2 Subunit of Photosystem II Alters Chloride Binding and Proton Transport. Biochemistry, 2013, 52, 4758-4773.	1.2	91
66	Modular Assembly of High-Potential Zinc Porphyrin Photosensitizers Attached to TiO₂ with a Series of Anchoring Groups. Journal of Physical Chemistry C, 2013, 117, 14526-14533.	1.5	90
67	Ultrathin dendrimerâ€“graphene oxide composite film for stable cycling lithiumâ€“sulfur batteries. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3578-3583.	3.3	90
68	Analysis of Dipolar and Exchange Interactions between Manganese and Tyrosine Z in the S2YZâ€¢ State of Acetate-Inhibited Photosystem II via EPR Spectral Simulations at X- and Q-Bands. Journal of Physical Chemistry B, 1998, 102, 8327-8335.	1.2	89
69	A tridentate Ni pincer for aqueous electrocatalytic hydrogen production. New Journal of Chemistry, 2012, 36, 1149.	1.4	88
70	Comparison of dppfâ€Supported Nickel Precatalysts for the Suzukiâ€“Miyaura Reaction: The Observation and Activity of Nickel(I). Angewandte Chemie - International Edition, 2015, 54, 13352-13356.	7.2	88
71	Sodium Periodate as a Primary Oxidant for Water-Oxidation Catalysts. Inorganic Chemistry, 2012, 51, 6147-6152.	1.9	86
72	Electron-transfer events leading to reconstitution of oxygen-evolution activity in manganese-depleted photosystem II membranes. Biochemistry, 1990, 29, 1385-1392.	1.2	85

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73	Experimental Support for a Single Electron-Transfer Oxidation Mechanism in Firefly Bioluminescence. Journal of the American Chemical Society, 2015, 137, 7592-7595.	6.6	85
74	A Pyridine Alkoxide Chelate Ligand That Promotes Both Unusually High Oxidation States and Water-Oxidation Catalysis. Accounts of Chemical Research, 2017, 50, 952-959.	7.6	84
75	An Anionic N-Donor Ligand Promotes Manganese-Catalyzed Water Oxidation. Inorganic Chemistry, 2013, 52, 7615-7622.	1.9	83
76	Ultrafast Photooxidation of Mn(II)â˘’Terpyridine Complexes Covalently Attached to TiO₂ Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 11982-11990.	1.5	82
77	Reactions of hydroxylamine with the electron-donor side of photosystem II. Biochemistry, 1987, 26, 8285-8295.	1.2	81
78	Deposition of an oxomanganese water oxidation catalyst on TiO2 nanoparticles: computational modeling, assembly and characterization. Energy and Environmental Science, 2009, 2, 230.	15.6	80
79	Heterogenized Iridium Water-Oxidation Catalyst from a Silatrane Precursor. ACS Catalysis, 2016, 6, 5371-5377.	5.5	79
80	Oxomanganese complexes for natural and artificial photosynthesis. Current Opinion in Chemical Biology, 2012, 16, 11-18.	2.8	77
81	Development of an Improved System for the Carboxylation of Aryl Halides through Mechanistic Studies. ACS Catalysis, 2019, 9, 3228-3241.	5.5	77
82	Synthesis and Reactivity of Paramagnetic Nickel Polypyridyl Complexes Relevant to C(sp²)â€“C(sp³)Coupling Reactions. Angewandte Chemie - International Edition, 2019, 58, 6094-6098.	7.2	76
83	Identification of Histidine 118 in the D1 Polypeptide of Photosystem II as the Axial Ligand to Chlorophyll Z. Biochemistry, 1998, 37, 10040-10046.	1.2	75
84	High-Frequency EPR Study of a New Mononuclear Manganese(III) Complex:Â [(terpy)Mn(N3)3] (terpy =) Tj ETQq0 0 0 rgBT /Overlock 10	1.9	74
85	Q-Band EPR of the S2 State of Photosystem II Confirms an S= 5/2 Origin of the X-Band g= 4.1 Signal. Biophysical Journal, 2004, 87, 2885-2896.	0.2	74
86	Analysis of the Radiation-Damage-Free X-ray Structure of Photosystem II in Light of EXAFS and QM/MM Data. Biochemistry, 2015, 54, 1713-1716.	1.2	73
87	Interfacial Electron Transfer into Functionalized Crystalline Polyoxotitanate Nanoclusters. Journal of the American Chemical Society, 2012, 134, 8911-8917.	6.6	72
88	QM/MM computational studies of substrate water binding to the oxygen-evolving centre of photosystem II. Philosophical Transactions of the Royal Society B: Biological Sciences, 2008, 363, 1149-1156.	1.8	70
89	Bioinspired High-Potential Porphyrin Photoanodes. Journal of Physical Chemistry C, 2012, 116, 4892-4902.	1.5	69
90	End-On Bound Iridium Dinuclear Heterogeneous Catalysts on WO₃ for Solar Water Oxidation. ACS Central Science, 2018, 4, 1166-1172.	5.3	69

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91	NH₃ Binding to the S₂ State of the O₂-Evolving Complex of Photosystem II: Analogue to H₂O Binding during the S₂ â†' S₃ Transition. Biochemistry, 2015, 54, 5783-5786.	1.2	68
92	Reversible Binding of Nitric Oxide to Tyrosyl Radicals in Photosystem II. Nitric Oxide Quenches Formation of the S3 EPR Signal Species in Acetate-Inhibited Photosystem IIâ€. Biochemistry, 1996, 35, 15080-15087.	1.2	67
93	Chloride Regulation of Enzyme Turnover: Application to the Role of Chloride in Photosystem II. Biochemistry, 2011, 50, 2725-2734.	1.2	67
94	Photoelectrochemical Hole Injection Revealed in Polyoxotitanate Nanocrystals Functionalized with Organic Adsorbates. Journal of the American Chemical Society, 2014, 136, 16420-16429.	6.6	67
95	Oxygen-evolving complex of photosystem II: correlating structure with spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 11812.	1.3	67
96	Photosynthetic water oxidation: binding and activation of substrate waters for Oâ€"O bond formation. Faraday Discussions, 2015, 185, 37-50.	1.6	66
97	Highly Active NiO Photocathodes for H₂O₂ Production Enabled via Outer-Sphere Electron Transfer. Journal of the American Chemical Society, 2018, 140, 4079-4084.	6.6	66
98	Isolation and Characterization of Spinach Photosystem II Membrane-Associated Catalase and Polyphenol Oxidaseâ€. Biochemistry, 1996, 35, 16255-16263.	1.2	65
99	Nickel(I) Monomers and Dimers with Cyclopentadienyl and Indenyl Ligands. Chemistry - A European Journal, 2014, 20, 5327-5337.	1.7	65
100	Fluorescence Quenching by Chlorophyll Cations in Photosystem IIâ€. Biochemistry, 1997, 36, 11351-11359.	1.2	64
101	Solution Structures of Highly Active Molecular Ir Water-Oxidation Catalysts from Density Functional Theory Combined with High-Energy X-ray Scattering and EXAFS Spectroscopy. Journal of the American Chemical Society, 2016, 138, 5511-5514.	6.6	63
102	A [3Fe-4S] cluster is required for tRNA thiolation in archaea and eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12703-12708.	3.3	63
103	Computational insights into the O2-evolving complex of photosystem II. Photosynthesis Research, 2008, 97, 91-114.	1.6	62
104	S₃ State of the O₂-Evolving Complex of Photosystem II: Insights from QM/MM, EXAFS, and Femtosecond X-ray Diffraction. Biochemistry, 2016, 55, 981-984.	1.2	62
105	Cp* Iridium Precatalysts for Selective Câ€"H Oxidation with Sodium Periodate As the Terminal Oxidant. Organometallics, 2013, 32, 957-965.	1.1	60
106	Competitive Binding of Acetate and Chloride in Photosystem II. Biochemistry, 1999, 38, 6604-6613.	1.2	58
107	Crystallographic Data Support the Carousel Mechanism of Water Supply to the Oxygen-Evolving Complex of Photosystem II. ACS Energy Letters, 2017, 2, 2299-2306.	8.8	58
108	High-resolution cryo-electron microscopy structure of photosystem II from the mesophilic cyanobacterium, <i>Synechocystis</i> sp. PCC 6803. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	58

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109	Silatranes for binding inorganic complexes to metal oxide surfaces. Dalton Transactions, 2015, 44, 20312-20315.	1.6	57
110	Nickel(I) Aryl Species: Synthesis, Properties, and Catalytic Activity. ACS Catalysis, 2018, 8, 2526-2533.	5.5	57
111	Selective CO Production by Photoelectrochemical Methane Oxidation on TiO₂. ACS Central Science, 2018, 4, 631-637.	5.3	56
112	Electron Injection Dynamics from Photoexcited Porphyrin Dyes into SnO2 and TiO2 Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 21662-21670.	1.5	54
113	Rutile TiO₂ as an Anode Material for Water-Splitting Dye-Sensitized Photoelectrochemical Cells. ACS Energy Letters, 2016, 1, 603-606.	8.8	54
114	Formation and Decay of the S3 EPR Signal Species in Acetate-Inhibited Photosystem IIâ€. Biochemistry, 1996, 35, 1946-1953.	1.2	53
115	Orientation of the Tetranuclear Manganese Cluster and Tyrosine Z in the O2-Evolving Complex of Photosystem II:Â An EPR Study of the S2YZâ€¢State in Oriented Acetate-Inhibited Photosystem II Membranesâ€. Biochemistry, 1999, 38, 12758-12767.	1.2	53
116	Stable Iridium(IV) Complexes of an Oxidation-Resistant Pyridine-Alkoxide Ligand: Highly Divergent Redox Properties Depending on the Isomeric Form Adopted. Journal of the American Chemical Society, 2015, 137, 7243-7250.	6.6	51
117	Antimony Complexes for Electrocatalysis: Activity of a Mainâ€Group Element in Proton Reduction. Angewandte Chemie - International Edition, 2017, 56, 9111-9115.	7.2	51
118	Proton-Coupled Electron Transfer During the S-State Transitions of the Oxygen-Evolving Complex of Photosystem II. Journal of Physical Chemistry B, 2015, 119, 7366-7377.	1.2	49
119	Proton-Coupled Electron Transfer Involving Tyrosine Z in Photosystem IIâ€. Journal of Physical Chemistry B, 2002, 106, 8189-8196.	1.2	48
120	Interfacial electron transfer in photoanodes based on phosphorus(v) porphyrin sensitizers co-deposited on SnO2 with the Ir(III)Cp* water oxidation precatalyst. Journal of Materials Chemistry A, 2015, 3, 3868-3879.	5.2	47
121	High-Field EPR Study of Carotenoid and Chlorophyll Cation Radicals in Photosystem II. Journal of Physical Chemistry B, 2000, 104, 10445-10448.	1.2	46
122	Structural Changes in the Oxygen-Evolving Complex of PhotosystemÂII Induced by the S₁ to S₂ Transition: A Combined XRD and QM/MM Study. Biochemistry, 2014, 53, 6860-6862.	1.2	46
123	Ferroceneâ€Promoted Longâ€Cycle Lithiumâ€"Sulfur Batteries. Angewandte Chemie - International Edition, 2016, 55, 14818-14822.	7.2	46
124	Photodriven Oxidation of Surface-Bound Iridium-Based Molecular Water-Oxidation Catalysts on Perylene-3,4-dicarboximide-Sensitized TiO₂ Electrodes Protected by an Al₂O₃ Layer. Journal of Physical Chemistry C, 2017, 121, 3752-3764.	1.5	46
125	Facet-Dependent Kinetics and Energetics of Hematite for Solar Water Oxidation Reactions. ACS Applied Materials & Interfaces, 2019, 11, 5616-5622.	4.0	46
126	Redox Activity of Oxo-Bridged Iridium Dimers in an N,O-Donor Environment: Characterization of Remarkably Stable Ir(IV,V) Complexes. Journal of the American Chemical Society, 2017, 139, 9672-9683.	6.6	45

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127	Metalâ€"Organic Framework Photoconductivity via Time-Resolved Terahertz Spectroscopy. Journal of the American Chemical Society, 2019, 141, 9793-9797.	6.6	44
128	Nanotechnology for catalysis and solar energy conversion. Nanotechnology, 2021, 32, 042003.	1.3	44
129	Probing the Viability of Oxo-Coupling Pathways in Iridium-Catalyzed Oxygen Evolution. Organometallics, 2013, 32, 5384-5390.	1.1	42
130	Observation of a potential-dependent switch of water-oxidation mechanism on Co-oxide-based catalysts. CheM, 2021, 7, 2101-2117.	5.8	42
131	Mechanism of Manganese-Catalyzed Oxygen Evolution from Experimental and Theoretical Analyses of ¹⁸O Kinetic Isotope Effects. ACS Catalysis, 2015, 5, 7104-7113.	5.5	41
132	High Oxidation State Iridium Mono-Î¼-oxo Dimers Related to Water Oxidation Catalysis. Journal of the American Chemical Society, 2016, 138, 15917-15926.	6.6	41
133	Studies of the manganese site of photosystem II by electron spin resonance spectroscopy. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 3635.	1.0	39
134	EPR Spectroscopic Characterization of Neuronal NO Synthase. Biochemistry, 1996, 35, 2804-2810.	1.2	39
135	Calcium Binding Studies of Photosystem II Using a Calcium-Selective Electrodeâ€. Biochemistry, 1998, 37, 1532-1539.	1.2	38
136	Energetics of the S₂ State Spin Isomers of the Oxygen-Evolving Complex of Photosystem II. Journal of Physical Chemistry B, 2017, 121, 1020-1025.	1.2	38
137	Photoelectrochemical Cells Utilizing Tunable Corroles. ACS Applied Materials & Interfaces, 2015, 7, 16124-16130.	4.0	37
138	Water-Nucleophilic Attack Mechanism for the Cu^{II}(pyalk)₂ Water-Oxidation Catalyst. ACS Catalysis, 2018, 8, 7952-7960.	5.5	37
139	Heterogeneous Nature of Electrocatalytic CO/CO₂ Reduction by Cobalt Phthalocyanines. ChemSusChem, 2020, 13, 6296-6299.	3.6	37
140	Electrostatic Effects on Proton Coupled Electron Transfer in Oxomanganese Complexes Inspired by the Oxygen-Evolving Complex of Photosystem II. Journal of Physical Chemistry B, 2013, 117, 6217-6226.	1.2	36
141	Strongly Coupled Phenazineâ€"Porphyrin Dyads: Light-Harvesting Molecular Assemblies with Broad Absorption Coverage. ACS Applied Materials & Interfaces, 2019, 11, 8000-8008.	4.0	36
142	Cryo-EM Structure of Monomeric Photosystem II from Synechocystis sp. PCC 6803 Lacking the Water-Oxidation Complex. Joule, 2020, 4, 2131-2148.	11.7	36
143	Computational Design of Intrinsic Molecular Rectifiers Based on Asymmetric Functionalization of <i>N</i>-Phenylbenzamide. Journal of Chemical Theory and Computation, 2015, 11, 5888-5896.	2.3	34
144	Optimization of Photoanodes for Photocatalytic Water Oxidation by Combining a Heterogenized Iridium Waterâ€Oxidation Catalyst with a Highâ€Potential Porphyrin Photosensitizer. ChemSusChem, 2017, 10, 4526-4534.	3.6	34

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145	Endothelial Cell Autonomous Role of Akt1. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 870-879.	1.1	34
146	Controlling the rectification properties of molecular junctions through moleculeâ€“electrode coupling. Nanoscale, 2016, 8, 16357-16362.	2.8	33
147	A full set of iridium(<scp>iv</scp>) pyridine-alkoxide stereoisomers: highly geometry-dependent redox properties. Chemical Science, 2017, 8, 1642-1652.	3.7	32
148	Structure of a monomeric photosystem II core complex from a cyanobacterium acclimated to far-red light reveals the functions of chlorophylls d and f. Journal of Biological Chemistry, 2022, 298, 101424.	1.6	32
149	Computational Insights on Crystal Structures of the Oxygen-Evolving Complex of Photosystem II with Either Ca²⁺ or Ca²⁺ Substituted by Sr²⁺. Biochemistry, 2015, 54, 820-825.	1.2	31
150	Direct Interfacial Electron Transfer from High-Potential Porphyrins into Semiconductor Surfaces: A Comparison of Linkers and Anchoring Groups. Journal of Physical Chemistry C, 2018, 122, 13529-13539.	1.5	31
151	Surface-Attached Molecular Catalysts on Visible-Light-Absorbing Semiconductors: Opportunities and Challenges for a Stable Hybrid Water-Splitting Photoanode. ACS Energy Letters, 2020, 5, 3195-3202.	8.8	31
152	Electrocatalytic, Homogeneous Ammonia Oxidation in Water to Nitrate and Nitrite with a Copper Complex. Journal of the American Chemical Society, 2022, 144, 8449-8453.	6.6	31
153	Formation of the S2 state and structure of the Mn complex in photosystem II lacking the extrinsic 33 kilodalton polypeptide. Photosynthesis Research, 1987, 12, 205-218.	1.6	30
154	Organosilatrane building blocks. Tetrahedron Letters, 2014, 55, 1062-1064.	0.7	30
155	Effect of Chloride Depletion on the Magnetic Properties and the Redox Leveling of the Oxygen-Evolving Complex in Photosystem II. Journal of Physical Chemistry B, 2016, 120, 4243-4248.	1.2	30
156	Molecular titaniumâ€“hydroxamate complexes as models for TiO₂ surface binding. Chemical Communications, 2016, 52, 2972-2975.	2.2	30
157	Slow Equilibration between Spectroscopically Distinct Trap States in Reduced TiO₂ Nanoparticles. Journal of the American Chemical Society, 2017, 139, 2868-2871.	6.6	30
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