Gary W Brudvig

List of Publications by Year
in descending order

263	23,048	8172 76	9090 144
papers	citations	h-index	g-index

276	276	276	17271
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultrafast terahertz spectroscopy provides insight into charge transfer efficiency and dynamics in artificial photosynthesis. Photosynthesis Research, 2022, 151, 145-153.	1.6	2
2	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
3	Structure of a photosystem I-ferredoxin complex from a marine cyanobacterium provides insights into far-red light photoacclimation. Journal of Biological Chemistry, 2022, 298, 101408.	1.6	16
4	Optimization of Surface Loading of the Silatrane Anchoring Group on TiO₂. ACS Applied Materials & Interfaces, 2022, 14, 6582-6589.	4.0	7
5	Comparison of PsbQ and Psb27 in photosystem II provides insight into their roles. Photosynthesis Research, 2022, 152, 177-191.	1.6	5
6	Binding of the substrate analog methanol in the oxygen-evolving complex of photosystem II in the D1-N87A genetic variant of cyanobacteria. Faraday Discussions, 2022, 234, 195-213.	1.6	4
7	High-resolution cryo-electron microscopy structure of photosystem II from the mesophilic cyanobacterium, Synechocystis sp. PCC 6803. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	58
8	Glycerol binding at the narrow channel of photosystem II stabilizes the low-spin S2 state of the oxygen-evolving complex. Photosynthesis Research, 2022, , 1.	1.6	1
9	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
10	Spectroelectrochemistry of Water Oxidation Kinetics in Molecular versus Heterogeneous Oxide Iridium Electrocatalysts. Journal of the American Chemical Society, 2022, 144, 8454-8459.	6.6	25
11	Revealing the Structure of Single Cobalt Sites in Carbon Nitride for Photocatalytic CO₂ Reduction. Journal of Physical Chemistry C, 2022, 126, 8596-8604.	1.5	11
12	Molecular Evolution of Far-Red Light-Acclimated Photosystem II. Microorganisms, 2022, 10, 1270.	1.6	13
13	Quantitative assessment of chlorophyll types in cryo-EM maps of photosystem I acclimated to far-red light. BBA Advances, 2021, 1, 100019.	0.7	6
14	Kinetic modeling of substrate-water exchange in Photosystem II. BBA Advances, 2021, 1, 100014.	0.7	6
15	Tuning the Conduction Band for Interfacial Electron Transfer: Dye-Sensitized Sn_xTi_{1â€“x}O₂ Photoanodes for Water Splitting. ACS Applied Energy Materials, 2021, 4, 4695-4703.	2.5	4
16	Is Deprotonation of the Oxygen-Evolving Complex of Photosystem II during the S₁ â†' S₂ Transition Suppressed by Proton Quantum Delocalization?. Journal of the American Chemical Society, 2021, 143, 8324-8332.	6.6	21
17	Experimental Verification of Ir 5d Orbital States and Atomic Structures in Highly Active Amorphous Iridium Oxide Catalysts. ACS Catalysis, 2021, 11, 10084-10094.	5.5	4
18	Cation-exchanged conductive Mn2DSBDC metalâ€“organic frameworks: Synthesis, structure, and THz conductivity. Polyhedron, 2021, 203, 115182.	1.0	7

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19	Proton exit pathways surrounding the oxygen evolving complex of photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2021, 1862, 148446.	0.5	30
20	Observation of a potential-dependent switch of water-oxidation mechanism on Co-oxide-based catalysts. CheM, 2021, 7, 2101-2117.	5.8	42
21	Distorted Copper(II) Complex with Unusually Short CFÂ·Â·Â·Cu Distances. Inorganic Chemistry, 2021, 60, 14759-14764.	1.9	1
22	Accessing Molecular Dimeric Ir Water Oxidation Catalysts from Coordination Precursors. Inorganic Chemistry, 2021, 60, 14349-14356.	1.9	12
23	Organometallic complexes as preferred precursors to form molecular Ir(pyalk) coordination complexes for catalysis of oxygen evolution. Inorganica Chimica Acta, 2021, 526, 120507.	1.2	2
24	Toward understanding the S2-S3 transition in the Kok cycle of Photosystem II: Lessons from Sr-substituted structure. Inorganic Chemistry Communication, 2021, 133, 108890.	1.8	5
25	Nanotechnology for catalysis and solar energy conversion. Nanotechnology, 2021, 32, 042003.	1.3	44
26	Towards Operando Electron Transfer Dynamics Measured Using Time-Resolved Terahertz Spectroelectrochemistry. , 2021, , .		0
27	Photoinduced Charge Transport in Conductive Metal Organic Frameworks. , 2021, , .		0
28	Heterogeneous Composition of Oxygen-Evolving Complexes in Crystal Structures of Dark-Adapted Photosystem II. Biochemistry, 2021, 60, 3374-3384.	1.2	8
29	Concerted proton-electron transfer oxidation of phenols and hydrocarbons by a high-valent nickel complex. Chemical Science, 2020, 11, 1683-1690.	3.7	14
30	Heterogeneous Nature of Electrocatalytic CO/CO₂ Reduction by Cobalt Phthalocyanines. ChemSusChem, 2020, 13, 6296-6299.	3.6	37
31	Diazo coupling for surface attachment of small molecules to TiO₂ nanoparticles. Chemical Communications, 2020, 56, 9340-9343.	2.2	5
32	D1-S169A substitution of photosystem II reveals a novel S2-state structure. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148301.	0.5	4
33	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
34	Opportunities and challenges for assigning cofactors in cryo-EM density maps of chlorophyll-containing proteins. Communications Biology, 2020, 3, 408.	2.0	21
35	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
36	Surprisingly big linker-dependence of activity and selectivity in CO₂ reduction by an iridium(<scp>i</scp>) pincer complex. Chemical Communications, 2020, 56, 9126-9129.	2.2	10

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37	Identification of a Na⁺-Binding Site near the Oxygen-Evolving Complex of Spinach Photosystem II. Biochemistry, 2020, 59, 2823-2831.	1.2	5
38	Tribute to Charles A. Schmuttenmaer. Journal of Physical Chemistry C, 2020, 124, 22333-22334.	1.5	0
39	Silatrane Anchors for Metal Oxide Surfaces: Optimization for Potential Photocatalytic and Electrocatalytic Applications. ACS Applied Materials & Interfaces, 2019, 11, 5602-5609.	4.0	28
40	Facet-Dependent Kinetics and Energetics of Hematite for Solar Water Oxidation Reactions. ACS Applied Materials & Interfaces, 2019, 11, 5616-5622.	4.0	46
41	Bis(dialkylphosphino)ferrocene-Ligated Nickel(II) Precatalysts for Suzukiâ€“Miyaura Reactions of Aryl Carbonates. Organometallics, 2019, 38, 3377-3387.	1.1	21
42	Thermodynamics of the S₂-to-S₃ state transition of the oxygen-evolving complex of photosystem II. Physical Chemistry Chemical Physics, 2019, 21, 20840-20848.	1.3	21
43	Insights into Proton-Transfer Pathways during Water Oxidation in Photosystem II. Journal of Physical Chemistry B, 2019, 123, 8195-8202.	1.2	26
44	Strongly Coupled Phenazineâ€“Porphyrin Dyads: Light-Harvesting Molecular Assemblies with Broad Absorption Coverage. ACS Applied Materials & Interfaces, 2019, 11, 8000-8008.	4.0	36
45	D1-S169A Substitution of Photosystem II Perturbs Water Oxidation. Biochemistry, 2019, 58, 1379-1387.	1.2	18
46	Bicarbonate rescues damaged proton-transfer pathway in photosystem II. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 611-617.	0.5	5
47	Metalâ€“Organic Framework Photoconductivity via Time-Resolved Terahertz Spectroscopy. Journal of the American Chemical Society, 2019, 141, 9793-9797.	6.6	44
48	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
49	Development of an Improved System for the Carboxylation of Aryl Halides through Mechanistic Studies. ACS Catalysis, 2019, 9, 3228-3241.	5.5	77
50	Collaboration between experiment and theory in solar fuels research. Chemical Society Reviews, 2019, 48, 1865-1873.	18.7	17
51	Synthesis and Reactivity of Paramagnetic Nickel Polypyridyl Complexes Relevant to C(sp²)â€“C(sp³)Coupling Reactions. Angewandte Chemie, 2019, 131, 6155-6159.	1.6	10
52	Relative stability of the S2 isomers of the oxygen evolving complex of photosystem II. Photosynthesis Research, 2019, 141, 331-341.	1.6	18
53	Light-Driven Water Oxidation with the Ir-blue Catalyst and the Ru(bpy)₃²⁺/S₂O₈^{2â€“} Cycle: Photogeneration of Active Dimers, Electron-Transfer Kinetics, and Light Synchronization for Oxygen Evolution with High Quantum Efficiency. Inorganic Chemistry, 2019, 58, 16537-16545.	1.9	19
54	Modification of a pyridine-alkoxide ligand during the synthesis of coordination compounds. Inorganica Chimica Acta, 2019, 484, 75-78.	1.2	2

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55	N,N,O Pincer Ligand with a Deprotonatable Site That Promotes Redoxâ€Leveling, High Mn Oxidation States, and a Mn 2 O 2 Dimer Competent for Catalytic Oxygen Evolution. European Journal of Inorganic Chemistry, 2019, 2019, 2115-2123.	1.0	8
56	Progress Towards Unraveling the Water-Oxidation Mechanism of Photosystem II. , 2019, , 285-306.		0
57	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
58	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
59	Selective CO Production by Photoelectrochemical Methane Oxidation on TiO₂. ACS Central Science, 2018, 4, 631-637.	5.3	56
60	Oxidation of Organic Compounds in Water by Unactivated Peroxymonosulfate. Environmental Science & Technology, 2018, 52, 5911-5919.	4.6	576
61	A Dinuclear Iridium(V,V) Oxo-Bridged Complex Characterized Using a Bulk Electrolysis Technique for Crystallizing Highly Oxidizing Compounds. Inorganic Chemistry, 2018, 57, 5684-5691.	1.9	17
62	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
63	Nickel(I) Aryl Species: Synthesis, Properties, and Catalytic Activity. ACS Catalysis, 2018, 8, 2526-2533.	5.5	57
64	Endothelial Cell Autonomous Role of Akt1. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 870-879.	1.1	34
65	Active sites of copper-complex catalytic materials for electrochemical carbon dioxide reduction. Nature Communications, 2018, 9, 415.	5.8	527
66	Substitution of the D1-Asn87 site in photosystem II of cyanobacteria mimics the chloride-binding characteristics of spinach photosystem II. Journal of Biological Chemistry, 2018, 293, 2487-2497.	1.6	23
67	Catalysing water oxidation using natureâ€™s metal. Nature Catalysis, 2018, 1, 10-11.	16.1	12
68	Reduced Occupancy of the Oxygen-Evolving Complex of Photosystem II Detected in Cryo-Electron Microscopy Maps. Biochemistry, 2018, 57, 5925-5929.	1.2	3
69	Modifications to the Aryl Group of dppf-Ligated Ni Ïƒ-Aryl Precatalysts: Impact on Speciation and Catalytic Activity in Suzukiâ€“Miyaura Coupling Reactions. Organometallics, 2018, 37, 3943-3955.	1.1	20
70	Unusual Stability of a Bacteriochlorin Electrocatalyst under Reductive Conditions. A Case Study on CO₂ Conversion to CO. ACS Catalysis, 2018, 8, 10131-10136.	5.5	28
71	Some crystal growth strategies for diffraction structure studies of iridium complexes. Inorganica Chimica Acta, 2018, 480, 183-188.	1.2	3
72	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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73	Water-Nucleophilic Attack Mechanism for the Cu^{II}(pyalk)₂ Water-Oxidation Catalyst. ACS Catalysis, 2018, 8, 7952-7960.	5.5	37
74	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
75	Insights into Photosystem II from Isomorphous Difference Fourier Maps of Femtosecond X-ray Diffraction Data and Quantum Mechanics/Molecular Mechanics Structural Models. ACS Energy Letters, 2017, 2, 397-407.	8.8	16
76	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
77	Progress Toward a Molecular Mechanism of Water Oxidation in Photosystem II. Annual Review of Physical Chemistry, 2017, 68, 101-116.	4.8	159
78	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
79	Slow Equilibration between Spectroscopically Distinct Trap States in Reduced TiO₂ Nanoparticles. Journal of the American Chemical Society, 2017, 139, 2868-2871.	6.6	30
80	A pomegranate-structured sulfur cathode material with triple confinement of lithium polysulfides for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 11788-11793.	5.2	23
81	Antimony Complexes for Electrocatalysis: Activity of a Mainâ€Group Element in Proton Reduction. Angewandte Chemie - International Edition, 2017, 56, 9111-9115.	7.2	51
82	Anchoring groups for photocatalytic water oxidation on metal oxide surfaces. Chemical Society Reviews, 2017, 46, 6099-6110.	18.7	189
83	Synthesis of pyridine-alkoxide ligands for formation of polynuclear complexes. New Journal of Chemistry, 2017, 41, 6709-6719.	1.4	12
84	Electrocatalytic Water Oxidation by a Copper(II) Complex of an Oxidation-Resistant Ligand. ACS Catalysis, 2017, 7, 3384-3387.	5.5	149
85	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
86	Solvent Dependence of Lateral Charge Transfer in a Porphyrin Monolayer. ACS Energy Letters, 2017, 2, 168-173.	8.8	12
87	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
88	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
89	On the relationship between cumulative correlation coefficients and the quality of crystallographic data sets. Protein Science, 2017, 26, 2410-2416.	3.1	7
90	Introduction to a themed issue of Chemical Society Reviews on artificial photosynthesis. Chemical Society Reviews, 2017, 46, 6085-6087.	18.7	16

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91	X-ray Free Electron Laser Radiation Damage through the S-State Cycle of the Oxygen-Evolving Complex of Photosystem II. Journal of Physical Chemistry B, 2017, 121, 9382-9388.	1.2	14
92	Stereodynamic Quinoneâ€“Hydroquinone Molecules That Enantiomerize at sp³-Carbon via Redox-Interconversion. Journal of the American Chemical Society, 2017, 139, 15239-15244.	6.6	26
93	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
94	Linker Length-Dependent Electron-Injection Dynamics of Trimesitylporphyrins on SnO₂ Films. Journal of Physical Chemistry C, 2017, 121, 22690-22699.	1.5	13
95	Synthesis and Characterization of Iridium(V) Coordination Complexes With an N,Oâ€Donor Organic Ligand. Angewandte Chemie, 2017, 129, 13227-13231.	1.6	11
96	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
97	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
98	Antimony Complexes for Electrocatalysis: Activity of a Mainâ€Group Element in Proton Reduction. Angewandte Chemie, 2017, 129, 9239-9243.	1.6	12
99	Chlorophyll a with a farnesyl tail in thermophilic cyanobacteria. Photosynthesis Research, 2017, 134, 175-182.	1.6	12
100	Synthesis and Characterization of Iridium(V) Coordination Complexes With an N,Oâ€Donor Organic Ligand. Angewandte Chemie - International Edition, 2017, 56, 13047-13051.	7.2	24
101	Characterization of ammonia binding to the second coordination shell of the oxygen-evolving complex of photosystem II. Dalton Transactions, 2017, 46, 16089-16095.	1.6	12
102	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
103	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
104	Heterogenized Iridium Water-Oxidation Catalyst from a Silatrane Precursor. ACS Catalysis, 2016, 6, 5371-5377.	5.5	79
105	High-Potential Porphyrins Supported on SnO₂ and TiO₂ Surfaces for Photoelectrochemical Applications. Journal of Physical Chemistry C, 2016, 120, 28971-28982.	1.5	28
106	Comparison of heterogenized molecular and heterogeneous oxide catalysts for photoelectrochemical water oxidation. Energy and Environmental Science, 2016, 9, 1794-1802.	15.6	136
107	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
108	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

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109	Catalytic Systems for Water Splitting. ChemPlusChem, 2016, 81, 1017-1019.	1.3	12
110	One-Step Trimethylstannylation of Benzyl and Alkyl Halides. Journal of Organic Chemistry, 2016, 81, 9483-9488.	1.7	4
111	Towards a Bioinspiredâ€Systems Approach for Solar Fuel Devices. ChemPlusChem, 2016, 81, 1024-1027.	1.3	20
112	Catalytic Oxygen Evolution from Manganese Complexes with an Oxidationâ€Resistant N,N,Oâ€Donor Ligand. ChemPlusChem, 2016, 81, 1129-1132.	1.3	18
113	Controlling the rectification properties of molecular junctions through moleculeâ€“electrode coupling. Nanoscale, 2016, 8, 16357-16362.	2.8	33
114	Rutile TiO₂ as an Anode Material for Water-Splitting Dye-Sensitized Photoelectrochemical Cells. ACS Energy Letters, 2016, 1, 603-606.	8.8	54
115	Ammonia Binding in the Second Coordination Sphere of the Oxygen-Evolving Complex of Photosystem II. Biochemistry, 2016, 55, 4432-4436.	1.2	14
116	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
117	Ferroceneâ€Promoted Longâ€Cycle Lithiumâ€“Sulfur Batteries. Angewandte Chemie, 2016, 128, 15038-15042.	1.6	11
118	Ferroceneâ€Promoted Longâ€Cycle Lithiumâ€“Sulfur Batteries. Angewandte Chemie - International Edition, 2016, 55, 14818-14822.	7.2	46
119	Heme biomolecule as redox mediator and oxygen shuttle for efficient charging of lithium-oxygen batteries. Nature Communications, 2016, 7, 12925.	5.8	122
120	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
121	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
122	Surface-Induced Deprotection of THP-Protected Hydroxamic Acids on Titanium Dioxide. Journal of Physical Chemistry C, 2016, 120, 12495-12502.	1.5	11
123	Molecular design of light-harvesting photosensitizers: effect of varied linker conjugation on interfacial electron transfer. Physical Chemistry Chemical Physics, 2016, 18, 18678-18682.	1.3	21
124	Structureâ€“function relationships in single molecule rectification by N-phenylbenzamide derivatives. New Journal of Chemistry, 2016, 40, 7373-7378.	1.4	7
125	New Ir Bis-Carbonyl Precursor for Water Oxidation Catalysis. Inorganic Chemistry, 2016, 55, 2427-2435.	1.9	28
126	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

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127	Molecular titaniumâ€“hydroxamate complexes as models for TiO₂ surface binding. Chemical Communications, 2016, 52, 2972-2975.	2.2	30
128	Uncoupling Caveolae From Intracellular Signaling In Vivo. Circulation Research, 2016, 118, 48-55.	2.0	24
129	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
130	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
131	Photosynthetic water oxidation: binding and activation of substrate waters for Oâ€“O bond formation. Faraday Discussions, 2015, 185, 37-50.	1.6	66
132	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
133	Photosynthetic Water Oxidation: Insights from Manganese Model Chemistry. Accounts of Chemical Research, 2015, 48, 567-574.	7.6	142
134	Towards multielectron photocatalysis: a porphyrin array for lateral hole transfer and capture on a metal oxide surface. Physical Chemistry Chemical Physics, 2015, 17, 12728-12734.	1.3	29
135	A Stable Coordination Complex of Rh(IV) in an N,O-Donor Environment. Journal of the American Chemical Society, 2015, 137, 15692-15695.	6.6	27
136	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
137	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
138	Probing the Effect of Mutations of Asparagine 181 in the D1 Subunit of Photosystem II. Biochemistry, 2015, 54, 1663-1672.	1.2	28
139	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
140	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
141	Insights into Substrate Binding to the Oxygen-Evolving Complex of Photosystem II from Ammonia Inhibition Studies. Biochemistry, 2015, 54, 622-628.	1.2	23
142	A molecular catalyst for water oxidation that binds to metal oxide surfaces. Nature Communications, 2015, 6, 6469.	5.8	256
143	Molecular Catalysts for Water Oxidation. Chemical Reviews, 2015, 115, 12974-13005.	23.0	964
144	Photoelectrochemical Cells Utilizing Tunable Corroles. ACS Applied Materials & Interfaces, 2015, 7, 16124-16130.	4.0	37

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145	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
146	Cation Effects on the Electron-Acceptor Side of Photosystem II. Journal of Physical Chemistry B, 2015, 119, 7722-7728.	1.2	15
147	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
148	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
149	Iridium-based complexes for water oxidation. Dalton Transactions, 2015, 44, 12452-12472.	1.6	156
150	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
151	Preparation of Halogenated Fluorescent Diaminophenazine Building Blocks. Journal of Organic Chemistry, 2015, 80, 9881-9888.	1.7	14
152	Computational Design of Intrinsic Molecular Rectifiers Based on Asymmetric Functionalization of N-Phenylbenzamide. Journal of Chemical Theory and Computation, 2015, 11, 5888-5896.	2.3	34
153	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
154	Silatranes for binding inorganic complexes to metal oxide surfaces. Dalton Transactions, 2015, 44, 20312-20315.	1.6	57
155	Nickel(I) Monomers and Dimers with Cyclopentadienyl and Indenyl Ligands. Chemistry - A European Journal, 2014, 20, 5327-5337.	1.7	65
156	Organosilatrane building blocks. Tetrahedron Letters, 2014, 55, 1062-1064.	0.7	30
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