

Daniel G Nocera

List of Publications by Year in descending order

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264
papers

50,375
citations

3159

92
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1424

221
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271
all docs

271
docs citations

271
times ranked

37079
citing authors

#	ARTICLE	IF	CITATIONS
1	Powering the planet: Chemical challenges in solar energy utilization. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15729-15735.	7.1	7,148
2	In Situ Formation of an Oxygen-Evolving Catalyst in Neutral Water Containing Phosphate and Co ²⁺ . Science, 2008, 321, 1072-1075.	12.6	3,855
3	Solar Energy Supply and Storage for the Legacy and Nonlegacy Worlds. Chemical Reviews, 2010, 110, 6474-6502.	47.7	2,676
4	Wireless Solar Water Splitting Using Silicon-Based Semiconductors and Earth-Abundant Catalysts. Science, 2011, 334, 645-648.	12.6	1,559
5	The Artificial Leaf. Accounts of Chemical Research, 2012, 45, 767-776.	15.6	1,531
6	Comparing Photosynthetic and Photovoltaic Efficiencies and Recognizing the Potential for Improvement. Science, 2011, 332, 805-809.	12.6	1,369
7	Hydrogen Production by Molecular Photocatalysis. Chemical Reviews, 2007, 107, 4022-4047.	47.7	1,325
8	Mechanistic Studies of the Oxygen Evolution Reaction by a Cobalt-Phosphate Catalyst at Neutral pH. Journal of the American Chemical Society, 2010, 132, 16501-16509.	13.7	1,074
9	Fractionalized excitations in the spin-liquid state of a kagome-lattice antiferromagnet. Nature, 2012, 492, 406-410.	27.8	873
10	PROTON-COUPLED ELECTRON TRANSFER. Annual Review of Physical Chemistry, 1998, 49, 337-369.	10.8	797
11	Radical Initiation in the Class I Ribonucleotide Reductase: Long-Range Proton-Coupled Electron Transfer?. Chemical Reviews, 2003, 103, 2167-2202.	47.7	770
12	Water splitting—a biosynthetic system with CO ₂ reduction efficiencies exceeding photosynthesis. Science, 2016, 352, 1210-1213.	12.6	760
13	Nickel-borate oxygen-evolving catalyst that functions under benign conditions. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10337-10341.	7.1	709
14	Cobalt-phosphate oxygen-evolving compound. Chemical Society Reviews, 2009, 38, 109-114.	38.1	683
15	Structure and Valency of a Cobalt-Phosphate Water Oxidation Catalyst Determined by in Situ X-ray Spectroscopy. Journal of the American Chemical Society, 2010, 132, 13692-13701.	13.7	649
16	A Structurally Perfect S=1/2 Kagomé Antiferromagnet. Journal of the American Chemical Society, 2005, 127, 13462-13463.	13.7	622
17	Structure-Activity Correlations in a Nickel-Borate Oxygen Evolution Catalyst. Journal of the American Chemical Society, 2012, 134, 6801-6809.	13.7	612
18	Electrolyte-Dependent Electrosynthesis and Activity of Cobalt-Based Water Oxidation Catalysts. Journal of the American Chemical Society, 2009, 131, 2615-2620.	13.7	590

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19	A Self-Healing Oxygen-Evolving Catalyst. <i>Journal of the American Chemical Society</i> , 2009, 131, 3838-3839.	13.7	521
20	Quantum spin liquids. <i>Science</i> , 2020, 367, .	12.6	513
21	EPR Evidence for Co(IV) Species Produced During Water Oxidation at Neutral pH. <i>Journal of the American Chemical Society</i> , 2010, 132, 6882-6883.	13.7	488
22	Electrocatalytic Water Oxidation by Cobalt(III) Hexaammine- δ^2 -Octafluoro Corroles. <i>Journal of the American Chemical Society</i> , 2011, 133, 9178-9180.	13.7	488
23	Influence of iron doping on tetravalent nickel content in catalytic oxygen evolving films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1486-1491.	7.1	488
24	A Functionally Stable Manganese Oxide Oxygen Evolution Catalyst in Acid. <i>Journal of the American Chemical Society</i> , 2014, 136, 6002-6010.	13.7	474
25	Mechanistic Studies of the Oxygen Evolution Reaction Mediated by a Nickel-Borate Thin Film Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2013, 135, 3662-3674.	13.7	430
26	Proton-Coupled Electron Transfer in Biology: Results from Synergistic Studies in Natural and Model Systems. <i>Annual Review of Biochemistry</i> , 2009, 78, 673-699.	11.1	404
27	Highly active cobalt phosphate and borate based oxygen evolving catalysts operating in neutral and natural waters. <i>Energy and Environmental Science</i> , 2011, 4, 499-504.	30.8	402
28	Electronic Design Criteria for $\text{O}=\text{O}$ Bond Formation via Metal-Oxo Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 1849-1861.	4.0	390
29	Quantum-dot optical temperature probes. <i>Applied Physics Letters</i> , 2003, 83, 3555-3557.	3.3	369
30	Chemistry of Personalized Solar Energy. <i>Inorganic Chemistry</i> , 2009, 48, 10001-10017.	4.0	368
31	Efficient solar-to-fuels production from a hybrid microbial-water-splitting catalyst system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2337-2342.	7.1	366
32	Nature of Activated Manganese Oxide for Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2015, 137, 14887-14904.	13.7	359
33	Role of Proton-Coupled Electron Transfer in $\text{O}=\text{O}$ Bond Activation. <i>Accounts of Chemical Research</i> , 2007, 40, 543-553.	15.6	353
34	Solar Fuels and Solar Chemicals Industry. <i>Accounts of Chemical Research</i> , 2017, 50, 616-619.	15.6	333
35	Hydrogen Produced from Hydrohalic Acid Solutions by a Two-Electron Mixed-Valence Photocatalyst. <i>Science</i> , 2001, 293, 1639-1641.	12.6	309
36	Photocatalytic hydrogen production. <i>Chemical Communications</i> , 2011, 47, 9268.	4.1	300

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37	Topological Magnon Bands in a Kagome Lattice Ferromagnet. <i>Physical Review Letters</i> , 2015, 115, 147201.	7.8	289
38	The Nature of Lithium Battery Materials under Oxygen Evolution Reaction Conditions. <i>Journal of the American Chemical Society</i> , 2012, 134, 16959-16962.	13.7	287
39	Artificial photosynthesis as a frontier technology for energy sustainability. <i>Energy and Environmental Science</i> , 2013, 6, 1074.	30.8	284
40	Energy and environment policy case for a global project on artificial photosynthesis. <i>Energy and Environmental Science</i> , 2013, 6, 695.	30.8	264
41	Proton-coupled electron transfer: the mechanistic underpinning for radical transport and catalysis in biology. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 1351-1364.	4.0	262
42	Ten-percent solar-to-fuel conversion with nonprecious materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14057-14061.	7.1	262
43	Templated assembly of photoswitches significantly increases the energy-storage capacity of solar thermal fuels. <i>Nature Chemistry</i> , 2014, 6, 441-447.	13.6	261
44	Hydrogen Generation by Hangman Metalloporphyrins. <i>Journal of the American Chemical Society</i> , 2011, 133, 8775-8777.	13.7	255
45	Light-driven fine chemical production in yeast biohybrids. <i>Science</i> , 2018, 362, 813-816.	12.6	251
46	Photoinduced electron transfer mediated by a hydrogen-bonded interface. <i>Journal of the American Chemical Society</i> , 1992, 114, 4013-4015.	13.7	243
47	Spin chirality on a two-dimensional frustrated lattice. <i>Nature Materials</i> , 2005, 4, 323-328.	27.5	243
48	Oxygen reduction reactivity of cobalt(ii) hangman porphyrins. <i>Chemical Science</i> , 2010, 1, 411.	7.4	225
49	Reversible, Long-Range Radical Transfer in <i>E. coli</i> Class Ia Ribonucleotide Reductase. <i>Accounts of Chemical Research</i> , 2013, 46, 2524-2535.	15.6	223
50	Artificial Photosynthesis at Efficiencies Greatly Exceeding That of Natural Photosynthesis. <i>Accounts of Chemical Research</i> , 2019, 52, 3143-3148.	15.6	222
51	Nucleation, Growth, and Repair of a Cobalt-Based Oxygen Evolving Catalyst. <i>Journal of the American Chemical Society</i> , 2012, 134, 6326-6336.	13.7	216
52	Alternating layer addition approach to CdSe/CdS core/shell quantum dots with near-unity quantum yield and high on-time fractions. <i>Chemical Science</i> , 2012, 3, 2028.	7.4	207
53	Hangman Corroles: Efficient Synthesis and Oxygen Reaction Chemistry. <i>Journal of the American Chemical Society</i> , 2011, 133, 131-140.	13.7	197
54	Light-induced water oxidation at silicon electrodes functionalized with a cobalt oxygen-evolving catalyst. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10056-10061.	7.1	195

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55	Proton-Coupled Electron Transfer of Tyrosine Oxidation: Buffer Dependence and Parallel Mechanisms. <i>Journal of the American Chemical Society</i> , 2007, 129, 15462-15464.	13.7	193
56	Probing Edge Site Reactivity of Oxidic Cobalt Water Oxidation Catalysts. <i>Journal of the American Chemical Society</i> , 2016, 138, 4229-4236.	13.7	178
57	Electrochemical trapping of metastable Mn ³⁺ ions for activation of MnO ₂ oxygen evolution catalysts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5261-E5268.	7.1	173
58	Design of template-stabilized active and earth-abundant oxygen evolution catalysts in acid. <i>Chemical Science</i> , 2017, 8, 4779-4794.	7.4	172
59	Ambient nitrogen reduction cycle using a hybrid inorganic-biological system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6450-6455.	7.1	167
60	Site Specific X-ray Anomalous Dispersion of the Geometrically Frustrated Kagomé Magnet, Herbertsmithite, ZnCu ₃ (OH) ₆ Cl ₂ . <i>Journal of the American Chemical Society</i> , 2010, 132, 16185-16190.	13.7	166
61	Role of pendant proton relays and proton-coupled electron transfer on the hydrogen evolution reaction by nickel hangman porphyrins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15001-15006.	7.1	159
62	Electrochemical polymerization of pyrene derivatives on functionalized carbon nanotubes for pseudocapacitive electrodes. <i>Nature Communications</i> , 2015, 6, 7040.	12.8	159
63	Proton-Coupled O ₂ Activation on a Redox Platform Bearing a Hydrogen-Bonding Scaffold. <i>Journal of the American Chemical Society</i> , 2003, 125, 1866-1876.	13.7	158
64	Electronic Structure Description of a [Co(III) ₃ Co(IV)O ₄] Cluster: A Model for the Paramagnetic Intermediate in Cobalt-Catalyzed Water Oxidation. <i>Journal of the American Chemical Society</i> , 2011, 133, 15444-15452.	13.7	155
65	Blue semiconductor nanocrystal laser. <i>Applied Physics Letters</i> , 2005, 86, 073102.	3.3	154
66	Water Oxidation Catalysis by Co(II) Impurities in Co(III) ₄ O ₄ Cubanes. <i>Journal of the American Chemical Society</i> , 2014, 136, 17681-17688.	13.7	152
67	Proton-coupled electron transfer kinetics for the hydrogen evolution reaction of hangman porphyrins. <i>Energy and Environmental Science</i> , 2012, 5, 7737.	30.8	151
68	Intermediate-Range Structure of Self-Assembled Cobalt-Based Oxygen-Evolving Catalyst. <i>Journal of the American Chemical Society</i> , 2013, 135, 6403-6406.	13.7	151
69	Proton-Electron Transport and Transfer in Electrocatalytic Films. Application to a Cobalt-Based O ₂ -Evolution Catalyst. <i>Journal of the American Chemical Society</i> , 2013, 135, 10492-10502.	13.7	151
70	Photoinduced Electron Transfer within a Donor-Acceptor Pair Juxtaposed by a Salt Bridge. <i>Journal of the American Chemical Society</i> , 1995, 117, 8051-8052.	13.7	148
71	Electrocatalytic four-electron reduction of oxygen to water by a highly flexible cofacial cobalt bisporphyrin. <i>Chemical Communications</i> , 2000, , 1355-1356.	4.1	148
72	Photocatalytic Oxidation of Hydrocarbons by a Bis-iron(III)-oxo Pacman Porphyrin Using O ₂ and Visible Light. <i>Journal of the American Chemical Society</i> , 2006, 128, 6546-6547.	13.7	139

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73	Nickel phlorin intermediate formed by proton-coupled electron transfer in hydrogen evolution mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 485-492.	7.1	133
74	Hangman Porphyrins for the Assembly of a Model Heme Water Channel. <i>Journal of the American Chemical Society</i> , 2001, 123, 1513-1514.	13.7	129
75	Bidirectional and Unidirectional PCET in a Molecular Model of a Cobalt-Based Oxygen-Evolving Catalyst. <i>Journal of the American Chemical Society</i> , 2011, 133, 5174-5177.	13.7	127
76	Spin Frustration in 2D Kagomí Lattices: A Problem for Inorganic Synthetic Chemistry. <i>Chemistry - A European Journal</i> , 2004, 10, 3850-3859.	3.3	126
77	Mono-, Di-, Tri-, and Tetra-Substituted Fluorotyrosines: A New Probes for Enzymes That Use Tyrosyl Radicals in Catalysis. <i>Journal of the American Chemical Society</i> , 2006, 128, 1569-1579.	13.7	126
78	Trap-Free Halogen Photoelimination from Mononuclear Ni(III) Complexes. <i>Journal of the American Chemical Society</i> , 2015, 137, 6472-6475.	13.7	125
79	Ribonucleotide Reductases: Structure, Chemistry, and Metabolism Suggest New Therapeutic Targets. <i>Annual Review of Biochemistry</i> , 2020, 89, 45-75.	11.1	120
80	Elucidation of a Redox-Mediated Reaction Cycle for Nickel-Catalyzed Cross Coupling. <i>Journal of the American Chemical Society</i> , 2019, 141, 89-93.	13.7	119
81	pH Rate Profiles of F _N Y356 ⁿ R ₂ s (n = 2, 3, 4) in <i>Escherichia coli</i> Ribonucleotide Reductase: Evidence that Y356 is a Redox-Active Amino Acid along the Radical Propagation Pathway. <i>Journal of the American Chemical Society</i> , 2006, 128, 1562-1568.	13.7	114
82	Halogen Photoreductive Elimination from Gold(III) Centers. <i>Journal of the American Chemical Society</i> , 2009, 131, 7411-7420.	13.7	109
83	Personalized Energy: The Home as a Solar Power Station and Solar Gas Station. <i>ChemSusChem</i> , 2009, 2, 387-390.	6.8	108
84	Carbon Dioxide Reduction by Iron Hangman Porphyrins. <i>Organometallics</i> , 2019, 38, 1219-1223.	2.3	108
85	Xanthene-Bridged Cofacial Bisporphyrins. <i>Inorganic Chemistry</i> , 2000, 39, 959-966.	4.0	107
86	Photo-assisted water oxidation with cobalt-based catalyst formed from thin-film cobalt metal on silicon photoanodes. <i>Energy and Environmental Science</i> , 2011, 4, 2058.	30.8	106
87	Micelle-Encapsulated Quantum Dot-Porphyrin Assemblies as <i>in Vivo</i> Two-Photon Oxygen Sensors. <i>Journal of the American Chemical Society</i> , 2015, 137, 9832-9842.	13.7	104
88	Oxygen and hydrogen photocatalysis by two-electron mixed-valence coordination compounds. <i>Coordination Chemistry Reviews</i> , 2005, 249, 1316-1326.	18.8	103
89	The Whole Story of the Two-Electron Bond, with the $\hat{\sigma}$ Bond as a Paradigm. <i>Accounts of Chemical Research</i> , 2000, 33, 483-490.	15.6	102
90	Interplay of Homogeneous Reactions, Mass Transport, and Kinetics in Determining Selectivity of the Reduction of CO ₂ on Gold Electrodes. <i>ACS Central Science</i> , 2019, 5, 1097-1105.	11.3	97

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91	Catalytic O ₂ Activation Chemistry Mediated by Iron Hangman Porphyrins with a Wide Range of Proton-Donating Abilities. <i>Organic Letters</i> , 2003, 5, 2421-2424.	4.6	95
92	Self-healing catalysis in water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13380-13384.	7.1	95
93	X-ray Spectroscopic Characterization of Co(IV) and Metal-Metal Interactions in Co ₄ O ₄ : Electronic Structure Contributions to the Formation of High-Valent States Relevant to the Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2016, 138, 11017-11030.	13.7	94
94	In situ characterization of cofacial Co(IV) centers in Co ₄ O ₄ cubane: Modeling the high-valent active site in oxygen-evolving catalysts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3855-3860.	7.1	93
95	Proton-Directed Redox Control of O ₂ Bond Activation by Heme Hydroperoxidase Models. <i>Journal of the American Chemical Society</i> , 2007, 129, 5069-5075.	13.7	91
96	Oxygen Reduction Reaction Promoted by Manganese Porphyrins. <i>ACS Catalysis</i> , 2018, 8, 8671-8679.	11.2	91
97	Theoretical Analysis of Cobalt Hangman Porphyrins: Ligand Dearomatization and Mechanistic Implications for Hydrogen Evolution. <i>ACS Catalysis</i> , 2014, 4, 4516-4526.	11.2	90
98	Reversible Reduction of Oxygen to Peroxide Facilitated by Molecular Recognition. <i>Science</i> , 2012, 335, 450-453.	12.6	87
99	Oxygen Reduction Catalysis at a Dicobalt Center: The Relationship of Faradaic Efficiency to Overpotential. <i>Journal of the American Chemical Society</i> , 2016, 138, 2925-2928.	13.7	84
100	General Paradigm in Photoredox Nickel-Catalyzed Cross-Coupling Allows for Light-Free Access to Reactivity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9527-9533.	13.8	84
101	Electrocatalytic H ₂ Evolution by Proton-Gated Hangman Iron Porphyrins. <i>Organometallics</i> , 2014, 33, 4994-5001.	2.3	82
102	Spectroscopic Determination of Proton Position in the Proton-Coupled Electron Transfer Pathways of Donor-Acceptor Supramolecule Assemblies. <i>Journal of the American Chemical Society</i> , 2006, 128, 10474-10483.	13.7	81
103	Generation of the R2 Subunit of Ribonucleotide Reductase by Intein Chemistry: Insertion of 3-Nitrotyrosine at Residue 356 as a Probe of the Radical Initiation Process. <i>Biochemistry</i> , 2003, 42, 14541-14552.	2.5	79
104	A ligand field chemistry of oxygen generation by the oxygen-evolving complex and synthetic active sites. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 1293-1303.	4.0	79
105	Two-Photon Oxygen Sensing with Quantum Dot-Porphyrin Conjugates. <i>Inorganic Chemistry</i> , 2013, 52, 10394-10406.	4.0	76
106	Electronic Structure of Copper Corroles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2176-2180.	13.8	76
107	Synthesis and characterization of single crystals of the spin- $\frac{1}{2}$ antiferromagnets Zn ₂ ...	3.2	75
108	Aerobic Catalytic Photooxidation of Olefins by an Electron-Deficient Pacman Bisiron(III) $\frac{1}{4}$ -Oxo Porphyrin. <i>Journal of Organic Chemistry</i> , 2005, 70, 1885-1888.	3.2	73

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109	Nucleation and Growth Mechanisms of an Electrodeposited Manganese Oxide Oxygen Evolution Catalyt. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17142-17152.	3.1	73
110	Halogen Photoelimination from Monomeric Nickel(III) Complexes Enabled by the Secondary Coordination Sphere. <i>Organometallics</i> , 2015, 34, 4766-4774.	2.3	73
111	Proton-Coupled Electron Transfer: The Engine of Energy Conversion and Storage. <i>Journal of the American Chemical Society</i> , 2022, 144, 1069-1081.	13.7	72
112	Catalase and Epoxidation Activity of Manganese Salen Complexes Bearing Two Xanthene Scaffolds. <i>Journal of the American Chemical Society</i> , 2007, 129, 8192-8198.	13.7	66
113	Chlorine Photoelimination from a Diplatinum Core: Circumventing the Back Reaction. <i>Journal of the American Chemical Society</i> , 2009, 131, 28-29.	13.7	66
114	Excited-State Dynamics of Cofacial Pacman Porphyrins. <i>Journal of Physical Chemistry A</i> , 2002, 106, 11700-11708.	2.5	65
115	Room temperature stable CO ₂ -free H ₂ production from methanol with magnesium oxide nanophotocatalysts. <i>Science Advances</i> , 2016, 2, e1501425.	10.3	62
116	Taming the Chlorine Radical: Enforcing Steric Control over Chlorine-Radical-Mediated C-H Activation. <i>Journal of the American Chemical Society</i> , 2022, 144, 1464-1472.	13.7	62
117	From Molecules to the Crystalline Solid: Secondary Hydrogen-Bonding Interactions of Salt Bridges and Their Role in Magnetic Exchange. <i>Chemistry - A European Journal</i> , 1999, 5, 1474-1480.	3.3	61
118	General Strategy for Improving the Quantum Efficiency of Photoredox Hydroamidation Catalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 14926-14937.	13.7	61
119	Photoredox Nickel-Catalyzed C-S Cross-Coupling: Mechanism, Kinetics, and Generalization. <i>Journal of the American Chemical Society</i> , 2021, 143, 2005-2015.	13.7	61
120	2,3-Difluorotyrosine at Position 356 of Ribonucleotide Reductase R2: A Probe of Long-Range Proton-Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2003, 125, 10506-10507.	13.7	60
121	A nanocrystal-based ratiometric pH sensor for natural pH ranges. <i>Chemical Science</i> , 2012, 3, 2980.	7.4	60
122	Valorization of CO ₂ through lithoautotrophic production of sustainable chemicals in <i>Cupriavidus necator</i> . <i>Metabolic Engineering</i> , 2020, 62, 207-220.	7.0	60
123	On the future of global energy. <i>Daedalus</i> , 2006, 135, 112-115.	1.8	59
124	Direct formation of a water oxidation catalyst from thin-film cobalt. <i>Energy and Environmental Science</i> , 2010, 3, 1726.	30.8	59
125	Interfaces between water splitting catalysts and buried silicon junctions. <i>Energy and Environmental Science</i> , 2013, 6, 532-538.	30.8	58
126	Proton-coupled electron transfer chemistry of hangman macrocycles: Hydrogen and oxygen evolution reactions. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015, 19, 1-8.	0.8	58

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127	Practical challenges in the development of photoelectrochemical solar fuels production. <i>Sustainable Energy and Fuels</i> , 2020, 4, 985-995.	4.9	58
128	Hydrogen Evolution Catalysis by a Sparsely Substituted Cobalt Chlorin. <i>ACS Catalysis</i> , 2017, 7, 3597-3606.	11.2	56
129	Porphyrin Architectures Bearing Functionalized Xanthene Spacers. <i>Journal of Organic Chemistry</i> , 2002, 67, 1403-1406.	3.2	54
130	Transient Absorption Studies of the Pacman Effect in Spring-Loaded Diiron(III) H_4 -Oxo Bisporphyrins. <i>Inorganic Chemistry</i> , 2003, 42, 8270-8277.	4.0	54
131	Exciton-exciton annihilation in organic polariton microcavities. <i>Physical Review B</i> , 2010, 82, .	3.2	54
132	Photo-ribonucleotide reductase H_2 by selective cysteine labeling with a radical phototrigger. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 39-43.	7.1	53
133	How Radical Are H^\bullet Photocatalysts? A Closed-Shell Meisenheimer Complex Is Identified as a Super-Reducing Photoreagent. <i>Journal of the American Chemical Society</i> , 2021, 143, 14352-14359.	13.7	53
134	Xanthene-Modified and Hangman Iron Corroles. <i>Inorganic Chemistry</i> , 2011, 50, 1368-1377.	4.0	52
135	Dzyaloshinskii-Moriya interaction and spin reorientation transition in the frustrated kagome lattice antiferromagnet. <i>Physical Review B</i> , 2011, 83, .	3.2	50
136	Electrochemical Deposition of Conformal and Functional Layers on High Aspect Ratio Silicon Micro/Nanowires. <i>Nano Letters</i> , 2017, 17, 4502-4507.	9.1	50
137	Activation of Electron-Deficient Quinones through Hydrogen-Bond-Donor-Coupled Electron Transfer. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 539-544.	13.8	49
138	Efficient Synthesis of Hangman Porphyrins. <i>Organic Letters</i> , 2010, 12, 1036-1039.	4.6	48
139	Tertiary Amine-Assisted Electroreduction of Carbon Dioxide to Formate Catalyzed by Iron Tetraphenylporphyrin. <i>ACS Energy Letters</i> , 2020, 5, 72-78.	17.4	48
140	Long-Lived Triplet Excited State in a Heterogeneous Modified Carbon Nitride Photocatalyst. <i>Journal of the American Chemical Society</i> , 2021, 143, 4646-4652.	13.7	48
141	Photophysical Properties of H_2 -Substituted Free-Base Corroles. <i>Inorganic Chemistry</i> , 2015, 54, 2713-2725.	4.0	47
142	Solar-driven tandem photoredox nickel-catalysed cross-coupling using modified carbon nitride. <i>Chemical Science</i> , 2020, 11, 7456-7461.	7.4	47
143	Catalytic Oxygen Evolution by Cobalt Oxide Thin Films. <i>Topics in Current Chemistry</i> , 2015, 371, 173-213.	4.0	46
144	Slow Magnetic Relaxation in Intermediate Spin $S = 3/2$ Mononuclear Fe(III) Complexes. <i>Journal of the American Chemical Society</i> , 2017, 139, 16474-16477.	13.7	46

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145	Self-healing oxygen evolution catalysts. <i>Nature Communications</i> , 2022, 13, 1243.	12.8	46
146	Stereochemical control of H ₂ O ₂ dismutation by Hangman porphyrins. <i>Chemical Communications</i> , 2007, , 2642.	4.1	44
147	Photoactive Peptides for Light-Initiated Tyrosyl Radical Generation and Transport into Ribonucleotide Reductase. <i>Journal of the American Chemical Society</i> , 2007, 129, 8500-8509.	13.7	44
148	Generation of a stable, aminotyrosyl radical-induced Fe^{2+} complex of <i>Escherichia coli</i> class Ia ribonucleotide reductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3835-3840.	7.1	44
149	Continuous electrochemical water splitting from natural water sources via forward osmosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	44
150	Gold Corroles as Near-IR Phosphors for Oxygen Sensing. <i>Inorganic Chemistry</i> , 2017, 56, 10991-10997.	4.0	43
151	Double Hangman Iron Porphyrin and the Effect of Electrostatic Nonbonding Interactions on Carbon Dioxide Reduction. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1890-1895.	4.6	42
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