Shunichi Fukuzumi

List of Publications by Year
in descending order

562 papers	39,003 citations	1701 104 h-index	6465 157 g-index
592 all docs	592 docs citations	592 times ranked	21816 citing authors

#	Article	IF	Citations
1	Electron-Transfer State of 9-Mesityl-10-methylacridinium Ion with a Much Longer Lifetime and Higher Energy Than That of the Natural Photosynthetic Reaction Center. Journal of the American Chemical Society, 2004, 126, 1600-1601.	6.6	565
2	Modulating Charge Separation and Charge Recombination Dynamics in Porphyrinâˆ’Fullerene Linked Dyads and Triads:Â Marcus-Normal versus Inverted Region. Journal of the American Chemical Society, 2001, 123, 2607-2617.	6.6	537
3	Charge Separation in a Novel Artificial Photosynthetic Reaction Center Lives 380 ms. Journal of the American Chemical Society, 2001, 123, 6617-6628.	6.6	500
4	Tuning Reactivity and Mechanism in Oxidation Reactions by Mononuclear Nonheme Iron(IV)-Oxo Complexes. Accounts of Chemical Research, 2014, 47, 1146-1154.	7.6	434
5	Development of bioinspired artificial photosynthetic systems. Physical Chemistry Chemical Physics, 2008, 10, 2283.	1.3	427
6	Light-Harvesting and Photocurrent Generation by Gold Electrodes Modified with Mixed Self-Assembled Monolayers of Boronâˆ’Dipyrrin and Ferroceneâˆ’Porphyrinâˆ’Fullerene Triad. Journal of the American Chemical Society, 2001, 123, 100-110.	6.6	426
7	Organic synthetic transformations using organic dyes as photoredox catalysts. Organic and Biomolecular Chemistry, 2014, 12, 6059-6071.	1.5	402
8	Energetic comparison between photoinduced electron-transfer reactions from NADH model compounds to organic and inorganic oxidants and hydride-transfer reactions from NADH model compounds to p-benzoquinone derivatives. Journal of the American Chemical Society, 1987, 109, 305-316.	6.6	398
9	Selective photocatalytic reactions with organic photocatalysts. Chemical Science, 2013, 4, 561-574.	3.7	347
10	Long-Lived Charge Separation and Applications in Artificial Photosynthesis. Accounts of Chemical Research, 2014, 47, 1455-1464.	7.6	334
11	Seawater usable for production and consumption of hydrogen peroxide as a solar fuel. Nature Communications, 2016, 7, 11470.	5.8	310
12	Photofunctional nanomaterials composed of multiporphyrins and carbon-based Ï€-electron acceptors. Journal of Materials Chemistry, 2008, 18, 1427.	6.7	306
13	Blue Copper Model Complexes with Distorted Tetragonal Geometry Acting as Effective Electron-Transfer Mediators in Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2005, 127, 9648-9654.	6.6	287
14	Energy and environment policy case for a global project on artificial photosynthesis. Energy and Environmental Science, 2013, 6, 695.	15.6	264
15	Unusually Large Tunneling Effect on Highly Efficient Generation of Hydrogen and Hydrogen Isotopes in pH-Selective Decomposition of Formic Acid Catalyzed by a Heterodinuclear Iridiumâˆ’Ruthenium Complex in Water. Journal of the American Chemical Society, 2010, 132, 1496-1497.	6.6	252
16	Hydrogen peroxide as a sustainable energy carrier: Electrocatalytic production of hydrogen peroxide and the fuel cell. Electrochimica Acta, 2012, 82, 493-511.	2.6	245
17	Bioinspired Energy Conversion Systems for Hydrogen Production and Storage. European Journal of Inorganic Chemistry, 2008, 2008, 1351-1362.	1.0	244
18	Catalysis of Nickel Ferrite for Photocatalytic Water Oxidation Using [Ru(bpy)₃]²⁺and S₂O₈^{2â€“}. Journal of the American Chemical Society, 2012, 134, 19572-19575.	6.6	243

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19	Photocatalytic Oxygenation of Anthracenes and Olefins with Dioxygen via Selective Radical Coupling Using 9-Mesityl-10-methylacridinium Ion as an Effective Electron-Transfer Photocatalyst. Journal of the American Chemical Society, 2004, 126, 15999-16006.	6.6	238
20	Solar energy conversion: From natural to artificial photosynthesis. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2017, 31, 36-83.	5.6	228
21	Crystal structure of a metal ion-bound oxoiron(IV) complex and implications for biological electron transfer. Nature Chemistry, 2010, 2, 756-759.	6.6	227
22	Visible-Light-Induced Oxygenation of Benzene by the Triplet Excited State of 2,3-Dichloro-5,6-dicyano-<i>p</i>-benzoquinone. Journal of the American Chemical Society, 2013, 135, 5368-5371.	6.6	227
23	Photosynthetic Antennaâ€“Reaction Center Mimicry by Using Boron Dipyrromethene Sensitizers. ChemPhysChem, 2014, 15, 30-47.	1.0	222
24	Selective One-Electron and Two-Electron Reduction of C60 with NADH and NAD Dimer Analogues via Photoinduced Electron Transfer. Journal of the American Chemical Society, 1998, 120, 8060-8068.	6.6	221
25	New perspective of electron transfer chemistry. Organic and Biomolecular Chemistry, 2003, 1, 609-620.	1.5	221
26	Simultaneous production of p-tolualdehyde and hydrogen peroxide in photocatalytic oxygenation of p-xylene and reduction of oxygen with 9-mesityl-10-methylacridinium ion derivatives. Chemical Communications, 2010, 46, 601-603.	2.2	216
27	Quantitative Evaluation of Lewis Acidity of Metal Ions Derived from theg Values of ESR Spectra of Superoxide: Metal Ion Complexes in Relation to the Promoting Effects in Electron Transfer Reactions. Chemistry - A European Journal, 2000, 6, 4532-4535.	1.7	214
28	Creation of Superheterojunction Polymers via Direct Polycondensation: Segregated and Bicontinuous Donorâ€“Acceptor Ï€-Columnar Arrays in Covalent Organic Frameworks for Long-Lived Charge Separation. Journal of the American Chemical Society, 2015, 137, 7817-7827.	6.6	213
29	Solvent Dependence of Charge Separation and Charge Recombination Rates in Porphyrinâˆ’Fullerene Dyad. Journal of Physical Chemistry A, 2001, 105, 325-332.	1.1	212
30	Synthesis and Characterization of Imidazolate-Bridged Dinuclear Complexes as Active Site Models of Cu,Zn-SOD. Journal of the American Chemical Society, 2000, 122, 5733-5741.	6.6	209
31	Water-soluble mononuclear cobalt complexes with organic ligands acting as precatalysts for efficient photocatalytic water oxidation. Energy and Environmental Science, 2012, 5, 7606.	15.6	208
32	Mechanism of Four-Electron Reduction of Dioxygen to Water by Ferrocene Derivatives in the Presence of Perchloric Acid in Benzonitrile, Catalyzed by Cofacial Dicobalt Porphyrins. Journal of the American Chemical Society, 2004, 126, 10441-10449.	6.6	206
33	Efficient Catalytic Decomposition of Formic Acid for the Selective Generation of H₂ and H/D Exchange with a Waterâ€Soluble Rhodium Complex in Aqueous Solution. ChemSusChem, 2008, 1, 827-834.	3.6	201
34	Long-Lived Charge-Separated State Generated in a Ferroceneâ€“meso,meso-Linked Porphyrin Trimerâ€“Fullerene Pentad with a High Quantum Yield. Chemistry - A European Journal, 2004, 10, 3184-3196.	1.7	200
35	Catalytic Mechanism of Water Oxidation with Single-Site Rutheniumâ€“Heteropolytungstate Complexes. Journal of the American Chemical Society, 2011, 133, 11605-11613.	6.6	200
36	Production of hydrogen peroxide as a sustainable solar fuel from water and dioxygen. Energy and Environmental Science, 2013, 6, 3756.	15.6	200

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37	Bioinspired Electron-Transfer Systems and Applications. Bulletin of the Chemical Society of Japan, 2006, 79, 177-195.	2.0	195
38	Comparison of Reorganization Energies for Intra- and Intermolecular Electron Transfer. Angewandte Chemie - International Edition, 2002, 41, 2344-2347.	7.2	193
39	Catalytic interconversion between hydrogen and formic acid at ambient temperature and pressure. Energy and Environmental Science, 2012, 5, 7360.	15.6	192
40	Cu/Co₃O₄ Nanoparticles as Catalysts for Hydrogen Evolution from Ammonia Borane by Hydrolysis. Journal of Physical Chemistry C, 2010, 114, 16456-16462.	1.5	191
41	Flavin analog-metal ion complexes acting as efficient photocatalysts in the oxidation of p-methylbenzyl alcohol by oxygen under irradiation with visible light. Journal of the American Chemical Society, 1985, 107, 3020-3027.	6.6	184
42	A Mononuclear Non-Heme Manganese(IV)â€“Oxo Complex Binding Redox-Inactive Metal Ions. Journal of the American Chemical Society, 2013, 135, 6388-6391.	6.6	182
43	Oxygenation of Phenols to Catechols by A (Î¼-Î·2:Î·2-Peroxo)dicopper(II) Complex:â€‰ Mechanistic Insight into the Phenolase Activity of Tyrosinase. Journal of the American Chemical Society, 2001, 123, 6708-6709.	6.6	180
44	Selective photocatalytic aerobic bromination with hydrogen bromide via an electron-transfer state of 9-mesityl-10-methylacridinium ion. Chemical Science, 2011, 2, 715.	3.7	178
45	Photosynthetic Reaction Center Mimicry: Low Reorganization Energy Driven Charge Stabilization in Self-Assembled Cofacial Zinc Phthalocyanine Dimerâˆ’Fullerene Conjugate. Journal of the American Chemical Society, 2009, 131, 8787-8797.	6.6	177
46	Photoalkylation of 10-Alkylacridinium Ion via a Charge-Shift Type of Photoinduced Electron Transfer Controlled by Solvent Polarity. Journal of the American Chemical Society, 2001, 123, 8459-8467.	6.6	175
47	Enhancement of Light-Energy Conversion Efficiency by Multi-Porphyrin Arrays of Porphyrinâˆ’Peptide Oligomers with Fullerene Clusters. Journal of Physical Chemistry B, 2005, 109, 19-23.	1.2	175
48	Metal Ion-Coupled Electron Transfer of a Nonheme Oxoiron(IV) Complex: Remarkable Enhancement of Electron-Transfer Rates by Sc³⁺. Journal of the American Chemical Society, 2011, 133, 403-405.	6.6	172
49	Oxidation Mechanism of Phenols by Dicopperâˆ’Dioxygen (Cu2/O2) Complexes. Journal of the American Chemical Society, 2003, 125, 11027-11033.	6.6	171
50	A Molecular Tetrad Allowing Efficient Energy Storage for 1.6 s at 163 K. Journal of Physical Chemistry A, 2004, 108, 541-548.	1.1	169
51	Metal Ion Effect on the Switch of Mechanism from Direct Oxygen Transfer to Metal Ion-Coupled Electron Transfer in the Sulfoxidation of Thioanisoles by a Non-Heme Iron(IV)âˆ’Oxo Complex. Journal of the American Chemical Society, 2011, 133, 5236-5239.	6.6	169
52	Catalytic mechanisms of hydrogen evolution with homogeneous and heterogeneous catalysts. Energy and Environmental Science, 2011, 4, 2754.	15.6	169
53	Direct Oxygenation of Benzene to Phenol Using Quinolinium Ions as Homogeneous Photocatalysts. Angewandte Chemie - International Edition, 2011, 50, 8652-8655.	7.2	167
54	Mechanisms of Sulfoxidation Catalyzed by High-Valent Intermediates of Heme Enzymes:â€‰ Electron-Transfer vs Oxygen-Transfer Mechanism. Journal of the American Chemical Society, 1999, 121, 9497-9502.	6.6	166

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55	Water Oxidation Catalysis with Nonheme Iron Complexes under Acidic and Basic Conditions: Homogeneous or Heterogeneous?. Inorganic Chemistry, 2013, 52, 9522-9531.	1.9	164
56	Supramolecular electron transfer by anion binding. Chemical Communications, 2012, 48, 9801.	2.2	159
57	Dioxygen Activation by a Non-Heme Iron(II) Complex: Formation of an Iron(IV)â^’Oxo Complex via Câ^’H Activation by a Putative Iron(III)â^’Superoxo Species. Journal of the American Chemical Society, 2010, 132, 10668-10670.	6.6	157
58	Driving Force Dependence of Intermolecular Electron-Transfer Reactions of Fullerenes. Chemistry - A European Journal, 2003, 9, 1585-1593.	1.7	156
59	Charge separation in metallomacrocycle complexes linked with electron acceptors by axial coordination. Dalton Transactions, 2009, , 3880.	1.6	154
60	Ion-Mediated Electron Transfer in a Supramolecular Donor-Acceptor Ensemble. Science, 2010, 329, 1324-1327.	6.0	154
61	Organic solar cells. Supramolecular composites of porphyrins and fullerenes organized by polypeptide structures as light harvesters. Journal of Materials Chemistry, 2007, 17, 4160.	6.7	153
62	Efficient Photoinduced Electron Transfer in a Porphyrin Tripodâ^’Fullerene Supramolecular Complex via Ï€â^’Ï€ Interactions in Nonpolar Media. Journal of the American Chemical Society, 2010, 132, 4477-4489.	6.6	152
63	Production of Liquid Solar Fuels and Their Use in Fuel Cells. Joule, 2017, 1, 689-738.	11.7	149
64	Exciplex Intermediates in Photoinduced Electron Transfer of Porphyrinâ^’Fullerene Dyads. Journal of the American Chemical Society, 2002, 124, 8067-8077.	6.6	148
65	Efficient reduction of dioxygen with ferrocene derivatives, catalyzed by metalloporphyrins in the presence of perchloric acid. Inorganic Chemistry, 1989, 28, 2459-2465.	1.9	147
66	Efficient water oxidation by cerium ammonium nitrate with [Ir^{III}(Cp*)(4,4â€²-bishydroxy-2,2â€²-bipyridine)(H₂O)]²⁺as a precatalyst. Energy and Environmental Science, 2012, 5, 5708-5716.	15.6	145
67	Catalytic Effects of Dioxygen on Intramolecular Electron Transfer in Radical Ion Pairs of Zinc Porphyrin-Linked Fullerenes. Journal of the American Chemical Society, 2001, 123, 2571-2575.	6.6	144
68	Fundamental Electron-Transfer Properties of Non-heme Oxoiron(IV) Complexes. Journal of the American Chemical Society, 2008, 130, 434-435.	6.6	144
69	Assemblies of artificial photosynthetic reaction centres. Journal of Materials Chemistry, 2012, 22, 4575.	6.7	144
70	Efficient Catalytic Interconversion between NADH and NAD⁺ Accompanied by Generation and Consumption of Hydrogen with a Water-Soluble Iridium Complex at Ambient Pressure and Temperature. Journal of the American Chemical Society, 2012, 134, 367-374.	6.6	142
71	Cupric Superoxo-Mediated Intermolecular Câ^’H Activation Chemistry. Journal of the American Chemical Society, 2011, 133, 1702-1705.	6.6	141
72	Hydride Transfer from 9-Substituted 10-Methyl-9,10-dihydroacridines to Hydride Acceptors via Charge-Transfer Complexes and Sequential Electronâ^’Protonâ^’Electron Transfer. A Negative Temperature Dependence of the Rates. Journal of the American Chemical Society, 2000, 122, 4286-4294.	6.6	138

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73	Electron-transfer oxidation of 9-substituted 10-methyl-9,10-dihydroacridines. Cleavage of the carbon-hydrogen vs. carbon-carbon bond of the radical cations. Journal of the American Chemical Society, 1993, 115, 8960-8968.	6.6	137
74	Hydrogen peroxide as sustainable fuel: electrocatalysts for production with a solar cell and decomposition with a fuel cell. Chemical Communications, 2010, 46, 7334.	2.2	135
75	Redox-inactive metal ions modulate the reactivity and oxygen release of mononuclear non-haem iron(III)â€“peroxo complexes. Nature Chemistry, 2014, 6, 934-940.	6.6	135
76	Rutheniumâ€Catalyzed Selective and Efficient Oxygenation of Hydrocarbons with Water as an Oxygen Source. Angewandte Chemie - International Edition, 2008, 47, 5772-5776.	7.2	133
77	Lewis Acid Coupled Electron Transfer of Metalâ€“Oxygen Intermediates. Chemistry - A European Journal, 2015, 21, 17548-17559.	1.7	132
78	Protonated ironâ€“phthalocyanine complex used for cathode material of a hydrogen peroxide fuel cell operated under acidic conditions. Energy and Environmental Science, 2011, 4, 2822.	15.6	131
79	Enhanced Electron-Transfer Reactivity of Nonheme Manganese(IV)â€“Oxo Complexes by Binding Scandium Ions. Journal of the American Chemical Society, 2013, 135, 9186-9194.	6.6	131
80	Metal ion-coupled and decoupled electron transfer. Coordination Chemistry Reviews, 2010, 254, 372-385.	9.5	127
81	Mononuclear Copper Complex-Catalyzed Four-Electron Reduction of Oxygen. Journal of the American Chemical Society, 2010, 132, 6874-6875.	6.6	127
82	Highly efficient photocatalytic oxygenation reactions using water as an oxygen source. Nature Chemistry, 2011, 3, 38-41.	6.6	126
83	Ion-Controlled Onâ€“Off Switch of Electron Transfer from Tetrathiafulvalene Calix[4]pyrroles to Li⁺@C₆₀. Journal of the American Chemical Society, 2011, 133, 15938-15941.	6.6	125
84	Mechanistic Insights into the Oxidation of Substituted Phenols via Hydrogen Atom Abstraction by a Cupricâ€“Superoxo Complex. Journal of the American Chemical Society, 2014, 136, 9925-9937.	6.6	125
85	Mechanisms and applications of cyclometalated Pt(<scp>ii</scp>) complexes in photoredox catalytic trifluoromethylation. Chemical Science, 2015, 6, 1454-1464.	3.7	123
86	Electron-transfer properties of high-valent metal-oxo complexes. Coordination Chemistry Reviews, 2013, 257, 1564-1575.	9.5	119
87	Homogeneous versus Heterogeneous Catalysts in Water Oxidation. European Journal of Inorganic Chemistry, 2014, 2014, 645-659.	1.0	119
88	Mechanism of hydride transfer from an NADH model compound to p-benzoquinone derivatives. Journal of Organic Chemistry, 1984, 49, 3571-3578.	1.7	118
89	Efficient Two-Electron Reduction of Dioxygen to Hydrogen Peroxide with One-Electron Reductants with a Small Overpotential Catalyzed by a Cobalt Chlorin Complex. Journal of the American Chemical Society, 2013, 135, 2800-2808.	6.6	118
90	A Manganese(V)â€“Oxo Complex: Synthesis by Dioxygen Activation and Enhancement of Its Oxidizing Power by Binding Scandium Ion. Journal of the American Chemical Society, 2016, 138, 8523-8532.	6.6	118

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91	Photocatalytic reduction of phenacyl halides by 9,10-dihydro-10-methylacridine: control between the reductive and oxidative quenching pathways of tris(bipyridine)ruthenium complex utilizing an acid catalysis. The Journal of Physical Chemistry, 1990, 94, 722-726.	2.9	116
92	Enhanced Electronâ€Transfer Properties of Cofacial Porphyrin Dimers through Ï€â€“Ï€ Interactions. Chemistry - A European Journal, 2009, 15, 3110-3122.	1.7	116
93	Thermal and photocatalytic production of hydrogen with earth-abundant metal complexes. Coordination Chemistry Reviews, 2018, 355, 54-73.	9.5	116
94	Fluorescence Maxima of 10-Methylacridoneâˆ'Metal Ion Salt Complexes:â€‰ A Convenient and Quantitative Measure of Lewis Acidity of Metal Ion Salts. Journal of the American Chemical Society, 2002, 124, 10270-10271.	6.6	115
95	Photocatalytic Production of Hydrogen by Disproportionation of Oneâ€Electronâ€Reduced Rhodium and Iridiumâ€“Ruthenium Complexes in Water. Angewandte Chemie - International Edition, 2011, 50, 728-731.	7.2	114
96	Hydrogen Atom Abstraction and Hydride Transfer Reactions by Iron(IV)â€“Oxo Porphyrins. Angewandte Chemie - International Edition, 2008, 47, 7321-7324.	7.2	113
97	Electron-transfer oxidation of ketene silyl acetals and other organosilanes. Mechanistic insight into Lewis acid mediated electron transfer. Journal of the American Chemical Society, 1992, 114, 10271-10278.	6.6	112
98	High and robust performance of H₂O₂ fuel cells in the presence of scandium ion. Energy and Environmental Science, 2015, 8, 1698-1701.	15.6	112
99	Catalysis on Electron Transfer and the Mechanistic Insight into Redox Reactions. Bulletin of the Chemical Society of Japan, 1997, 70, 1-28.	2.0	111
100	Hydrogen storage and evolution catalysed by metal hydride complexes. Dalton Transactions, 2013, 42, 18-28.	1.6	111
101	Unified View of Oxidative Câ€“H Bond Cleavage and Sulfoxidation by a Nonheme Iron(IV)â€“Oxo Complex via Lewis Acid-Promoted Electron Transfer. Inorganic Chemistry, 2014, 53, 3618-3628.	1.9	111
102	Persistent Electron-Transfer State of a Ï€-Complex of Acridinium Ion Inserted between Porphyrin Rings of Cofacial Bisporphyrins. Journal of the American Chemical Society, 2006, 128, 14625-14633.	6.6	110
103	LaCoO3 acting as an efficient and robust catalyst for photocatalytic water oxidation with persulfate. Physical Chemistry Chemical Physics, 2012, 14, 5753.	1.3	109
104	Rational Design and Functions of Electron Donorâ€“Acceptor Dyads with Much Longer Charge-Separated Lifetimes than Natural Photosynthetic Reaction Centers. Bulletin of the Chemical Society of Japan, 2009, 82, 303-315.	2.0	108
105	Selective Oxygenation of Ring-Substituted Toluenes with Electron-Donating and -Withdrawing Substituents by Molecular Oxygen via Photoinduced Electron Transfer. Journal of the American Chemical Society, 2003, 125, 12850-12859.	6.6	107
106	Dioxygen Activation by Mononuclear Nonheme Iron(II) Complexes Generates Ironâˆ'Oxygen Intermediates in the Presence of an NADH Analogue and Proton. Journal of the American Chemical Society, 2009, 131, 13910-13911.	6.6	107
107	Catalytic Four-Electron Reduction of O₂ via Rate-Determining Proton-Coupled Electron Transfer to a Dinuclear Cobalt-Î¼-1,2-peroxo Complex. Journal of the American Chemical Society, 2012, 134, 9906-9909.	6.6	106
108	One-step selective hydroxylation of benzene to phenol with hydrogen peroxide catalysed by copper complexes incorporated into mesoporous silicaâ€“alumina. Chemical Science, 2016, 7, 2856-2863.	3.7	106

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109	Solarâ€Driven Production of Hydrogen Peroxide from Water and Dioxygen. Chemistry - A European Journal, 2018, 24, 5016-5031.	1.7	106
110	Metal-Centered Photoinduced Electron Transfer Reduction of a Gold(III) Porphyrin Cation Linked with a Zinc Porphyrin to Produce a Long-Lived Charge-Separated State in Nonpolar Solvents. Journal of the American Chemical Society, 2003, 125, 14984-14985.	6.6	105
111	Clarification of the Oxidation State of Cobalt Corroles in Heterogeneous and Homogeneous Catalytic Reduction of Dioxygen. Inorganic Chemistry, 2008, 47, 6726-6737.	1.9	105
112	Mechanisms of catalytic reduction of CO₂ with heme and nonheme metal complexes. Chemical Science, 2018, 9, 6017-6034.	3.7	105
113	Electron-transfer mechanism in radical-scavenging reactions by a vitamin E model in a protic medium. Organic and Biomolecular Chemistry, 2005, 3, 626.	1.5	104
114	Supramolecular Tetrad of Subphthalocyanineâ€“Triphenylamineâ€“Zinc Porphyrin Coordinated to Fullerene as an â€œAntennaâ€Reactionâ€Centerâ€•Mimic: Formation of a Longâ€Lived Chargeâ€Separated State in Nonpolar Solvent. Chemistry - A European Journal, 2010, 16, 6193-6202.	1.7	104
115	A Discrete Supramolecular Conglomerate Composed of Two Saddleâ€Distorted Zinc(II)â€Phthalocyanine Complexes and a Doubly Protonated Porphyrin with Saddle Distortion Undergoing Efficient Photoinduced Electron Transfer. Angewandte Chemie - International Edition, 2008, 47, 6712-6716.	7.2	103
116	Homogeneous catalytic O2 reduction to water by a cytochrome c oxidase model with trapping of intermediates and mechanistic insights. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13990-13994.	3.3	102
117	Hydrogenâ€Atom Abstraction Reactions by Manganese(V)â€“ and Manganese(IV)â€“Oxo Porphyrin Complexes in Aqueous Solution. Chemistry - A European Journal, 2009, 15, 11482-11489.	1.7	100
118	Water as an Oxygen Source in the Generation of Mononuclear Nonheme Iron(IV) Oxo Complexes. Angewandte Chemie - International Edition, 2009, 48, 1803-1806.	7.2	98
119	Photocatalytic Hydrogen Evolution under Highly Basic Conditions by Using Ru Nanoparticles and 2-Phenyl-4-(1-naphthyl)quinolinium Ion. Journal of the American Chemical Society, 2011, 133, 16136-16145.	6.6	98
120	Enhanced Catalytic Four-Electron Dioxygen (O₂) and Two-Electron Hydrogen Peroxide (H₂O₂) Reduction with a Copper(II) Complex Possessing a Pendant Ligand Pivalamido Group. Journal of the American Chemical Society, 2013, 135, 6513-6522.	6.6	98
121	Selective electrochemical reduction of CO₂ to CO with a cobalt chlorin complex adsorbed on multi-walled carbon nanotubes in water. Chemical Communications, 2015, 51, 10226-10228.	2.2	98
122	Efficient Photocatalytic Production of Hydrogen Peroxide from Water and Dioxygen with Bismuth Vanadate and a Cobalt(II) Chlorin Complex. ACS Energy Letters, 2016, 1, 913-919.	8.8	98
123	Formation of a Ruthenium(IV)-Oxo Complex by Electron-Transfer Oxidation of a Coordinatively Saturated Ruthenium(II) Complex and Detection of Oxygen-Rebound Intermediates in Câ€“H Bond Oxygenation. Journal of the American Chemical Society, 2011, 133, 11692-11700.	6.6	97
124	Sizeâ€•and Shapeâ€Dependent Activity of Metal Nanoparticles as Hydrogenâ€Evolution Catalysts: Mechanistic Insights into Photocatalytic Hydrogen Evolution. Chemistry - A European Journal, 2011, 17, 2777-2785.	1.7	97
125	Thienyl-substituted methanofullerene derivatives for organic photovoltaic cells. Journal of Materials Chemistry, 2010, 20, 475-482.	6.7	96
126	Intramolecular Electron Transfer within the Substituted Tetrathiafulvaleneâˆ’Quinone Dyads:Â Facilitated by Metal Ion and Photomodulation in the Presence of Spiropyran. Journal of the American Chemical Society, 2007, 129, 6839-6846.	6.6	95

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127	BrÃ¸nsted Acid-Promoted Câ€"H Bond Cleavage via Electron Transfer from Toluene Derivatives to a Protonated Nonheme Iron(IV)-Oxo Complex with No Kinetic Isotope Effect. Journal of the American Chemical Society, 2013, 135, 5052-5061.	6.6	94
128	Hydrogen Atom Transfer Reactions of Mononuclear Nonheme Metalâ€"Oxygen Intermediates. Accounts of Chemical Research, 2018, 51, 2014-2022.	7.6	94
129	Mechanisms of Hydrogen-, Oxygen-, and Electron-Transfer Reactions of Cumylperoxyl Radical. Journal of the American Chemical Society, 2003, 125, 9074-9082.	6.6	93
130	Electron-Transfer Oxidation Properties of DNA Bases and DNA Oligomers. Journal of Physical Chemistry A, 2005, 109, 3285-3294.	1.1	93
131	Anion-Complexation-Induced Stabilization of Charge Separation. Journal of the American Chemical Society, 2009, 131, 16138-16146.	6.6	93
132	Metal-free oxygenation of cyclohexane with oxygen catalyzed by 9-mesityl-10-methylacridinium and hydrogen chloride under visible light irradiation. Chemical Communications, 2011, 47, 8515.	2.2	93
133	Fuel Production from Seawater and Fuel Cells Using Seawater. ChemSusChem, 2017, 10, 4264-4276.	3.6	93
134	Resonance Raman Spectroscopy as a Probe of the Bis(Î¼-oxo)dicopper Core. Journal of the American Chemical Society, 2000, 122, 792-802.	6.6	91
135	Structures and photoinduced electron transfer of protonated complexes of porphyrins and metallophthalocyanines. Coordination Chemistry Reviews, 2012, 256, 2488-2502.	9.5	91
136	Quantitative Evaluation of Lewis Acidity of Metal Ions with Different Ligands and Counterions in Relation to the Promoting Effects of Lewis Acids on Electron Transfer Reduction of Oxygen. Journal of Organic Chemistry, 2003, 68, 4720-4726.	1.7	90
137	Mimicking Photosynthetic Antennaâ€Reactionâ€Center Complexes with a (Boron) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 2011, 17, 1605-1613.	1.7	90
138	Photocatalytic CO₂ Reduction Using a Robust Multifunctional Iridium Complex toward the Selective Formation of Formic Acid. Journal of the American Chemical Society, 2020, 142, 10261-10266.	6.6	90
139	Photocatalytic hydrogen evolution with Ni nanoparticles by using 2-phenyl-4-(1-naphthyl)quinolinium ion as a photocatalyst. Energy and Environmental Science, 2012, 5, 6111.	15.6	89
140	Metal Ion-Catalyzed Dielsâˆ’Alder and Hydride Transfer Reactions. Catalysis of Metal Ions in the Electron-Transfer Step. Journal of the American Chemical Society, 2002, 124, 14147-14155.	6.6	88
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