

Shunichi Fukuzumi

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573
papers

33,359
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h-index

145
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592
ext. papers

36,083
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
573	Modulating charge separation and charge recombination dynamics in porphyrin-fullerene linked dyads and triads: Marcus-normal versus inverted region. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2607-17	16.4	493
572	Charge separation in a novel artificial photosynthetic reaction center lives 380 ms. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6617-28	16.4	457
571	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. <i>Journal of the American Chemical Society</i> , 2004 , 126, 1600-1	16.4	452
570	Development of bioinspired artificial photosynthetic systems. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 2283-97	3.6	406
569	Light-harvesting and photocurrent generation by gold electrodes modified with mixed self-assembled monolayers of boron-dipyrrin and ferrocene-porphyrin-fullerene triad. <i>Journal of the American Chemical Society</i> , 2001 , 123, 100-10	16.4	385
568	Tuning reactivity and mechanism in oxidation reactions by mononuclear nonheme iron(IV)-oxo complexes. <i>Accounts of Chemical Research</i> , 2014 , 47, 1146-54	24.3	374
567	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. <i>Journal of the American Chemical Society</i> , 1987 , 109, 305-316	16.4	350
566	Organic synthetic transformations using organic dyes as photoredox catalysts. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 6059-71	3.9	322
565	Selective photocatalytic reactions with organic photocatalysts. <i>Chemical Science</i> , 2013 , 4, 561-574	9.4	297
564	Photofunctional nanomaterials composed of multiporphyrins and carbon-based electron acceptors. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1427		297
563	Long-lived charge separation and applications in artificial photosynthesis. <i>Accounts of Chemical Research</i> , 2014 , 47, 1455-64	24.3	296
562	Blue copper model complexes with distorted tetragonal geometry acting as effective electron-transfer mediators in dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9648-54	16.4	260
561	Energy and environment policy case for a global project on artificial photosynthesis. <i>Energy and Environmental Science</i> , 2013 , 6, 695	35.4	236
560	Bioinspired Energy Conversion Systems for Hydrogen Production and Storage. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 1351-1362	2.3	226
559	Unusually large tunneling effect on highly efficient generation of hydrogen and hydrogen isotopes in pH-selective decomposition of formic acid catalyzed by a heterodinuclear iridium-ruthenium complex in water. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1496-7	16.4	224
558	Catalysis of nickel ferrite for photocatalytic water oxidation using [Ru(bpy) ₃] ²⁺ and S ₂ O ₈ ²⁻ . <i>Journal of the American Chemical Society</i> , 2012 , 134, 19572-5	16.4	217
557	New perspective of electron transfer chemistry. <i>Organic and Biomolecular Chemistry</i> , 2003 , 1, 609-20	3.9	207

556	Photocatalytic oxygenation of anthracenes and olefins with dioxygen via selective radical coupling using 9-mesityl-10-methylacridinium ion as an effective electron-transfer photocatalyst. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15999-6006	16.4	204
555	Crystal structure of a metal ion-bound oxoiron(IV) complex and implications for biological electron transfer. <i>Nature Chemistry</i> , 2010 , 2, 756-9	17.6	199
554	Photosynthetic antenna-reaction center mimicry by using boron dipyrromethene sensitizers. <i>ChemPhysChem</i> , 2014 , 15, 30-47	3.2	197
553	Water-soluble mononuclear cobalt complexes with organic ligands acting as precatalysts for efficient photocatalytic water oxidation. <i>Energy and Environmental Science</i> , 2012 , 5, 7606	35.4	196
552	Solvent Dependence of Charge Separation and Charge Recombination Rates in Porphyrin-Bullerene Dyad. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 325-332	2.8	194
551	Selective One-Electron and Two-Electron Reduction of C60 with NADH and NAD Dimer Analogues via Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8060-8068	16.4	194
550	Synthesis and Characterization of Imidazolate-Bridged Dinuclear Complexes as Active Site Models of Cu,Zn-SOD. <i>Journal of the American Chemical Society</i> , 2000 , 122, 5733-5741	16.4	192
549	Quantitative evaluation of Lewis acidity of metal ions derived from the g values of ESR spectra of superoxide: metal ion complexes in relation to the promoting effects in electron transfer reactions. <i>Chemistry - A European Journal</i> , 2000 , 6, 4532-5	4.8	191
548	Long-lived charge-separated state generated in a ferrocene-meso,meso-linked porphyrin trimer-fullerene pentad with a high quantum yield. <i>Chemistry - A European Journal</i> , 2004 , 10, 3184-96	4.8	189
547	Bioinspired Electron-Transfer Systems and Applications. <i>Bulletin of the Chemical Society of Japan</i> , 2006 , 79, 177-195	5.1	187
546	Catalytic mechanism of water oxidation with single-site ruthenium-heteropolytungstate complexes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11605-13	16.4	186
545	Efficient catalytic decomposition of formic acid for the selective generation of H ₂ and H/D exchange with a water-soluble rhodium complex in aqueous solution. <i>ChemSusChem</i> , 2008 , 1, 827-34	8.3	182
544	Visible-light-induced oxygenation of benzene by the triplet excited state of 2,3-dichloro-5,6-dicyano-p-benzoquinone. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5368-71	16.4	181
543	Seawater usable for production and consumption of hydrogen peroxide as a solar fuel. <i>Nature Communications</i> , 2016 , 7, 11470	17.4	179
542	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. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10441-9	16.4	179
541	Cu/Co ₃ O ₄ Nanoparticles as Catalysts for Hydrogen Evolution from Ammonia Borane by Hydrolysis. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16456-16462	3.8	177
540	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. <i>Chemical Communications</i> , 2010 , 46, 601-3	5.8	177
539	Hydrogen Peroxide as a Sustainable Energy Carrier: Electrocatalytic Production of Hydrogen Peroxide and the Fuel Cell. <i>Electrochimica Acta</i> , 2012 , 82, 493-511	6.7	176

538	Comparison of reorganization energies for intra- and intermolecular electron transfer. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 2344-7	16.4	176
537	Catalytic interconversion between hydrogen and formic acid at ambient temperature and pressure. <i>Energy and Environmental Science</i> , 2012 , 5, 7360	35.4	170
536	Photosynthetic reaction center mimicry: low reorganization energy driven charge stabilization in self-assembled cofacial zinc phthalocyanine dimer-fullerene conjugate. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8787-97	16.4	170
535	Enhancement of light-energy conversion efficiency by multi-porphyrin arrays of porphyrin-peptide oligomers with fullerene clusters. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19-23	3.4	168
534	Solar energy conversion: From natural to artificial photosynthesis. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2017 , 31, 36-83	16.4	167
533	Oxygenation of phenols to catechols by a (μ - η^2 : η^2 -peroxo)dicopper(II) complex: mechanistic insight into the phenolase activity of tyrosinase. <i>Journal of the American Chemical Society</i> , 2001 , 123, 6708-9	16.4	162
532	A Molecular Tetrad Allowing Efficient Energy Storage for 1.6 s at 163 K. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 541-548	2.8	161
531	Catalytic mechanisms of hydrogen evolution with homogeneous and heterogeneous catalysts. <i>Energy and Environmental Science</i> , 2011 , 4, 2754	35.4	159
530	A mononuclear non-heme manganese(IV)-oxo complex binding redox-inactive metal ions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6388-91	16.4	156
529	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)-oxo complex. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5236-9	16.4	153
528	Creation of Superheterojunction Polymers via Direct Polycondensation: Segregated and Bicontinuous Donor-Acceptor Columnar Arrays in Covalent Organic Frameworks for Long-Lived Charge Separation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7817-27	16.4	152
527	Flavin analog-metal ion complexes acting as efficient photocatalysts in the oxidation of p-methylbenzyl alcohol by oxygen under irradiation with visible light. <i>Journal of the American Chemical Society</i> , 1985 , 107, 3020-3027	16.4	152
526	Metal ion-coupled electron transfer of a nonheme oxoiron(IV) complex: remarkable enhancement of electron-transfer rates by Sc ³⁺ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 403-5	16.4	151
525	Oxidation mechanism of phenols by dicopper-dioxygen (Cu(2)/O(2)) complexes. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11027-33	16.4	151
524	Organic solar cells. Supramolecular composites of porphyrins and fullerenes organized by polypeptide structures as light harvesters. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4160		150
523	Supramolecular electron transfer by anion binding. <i>Chemical Communications</i> , 2012 , 48, 9801-15	5.8	149
522	Dioxygen activation by a non-heme iron(II) complex: formation of an iron(IV)-oxo complex via C-H activation by a putative iron(III)-superoxo species. <i>Journal of the American Chemical Society</i> , 2010 , 132, 10668-70	16.4	148
521	Charge separation in metallomacrocyclic complexes linked with electron acceptors by axial coordination. <i>Dalton Transactions</i> , 2009 , 3880-9	4.3	148

520	Selective photocatalytic aerobic bromination with hydrogen bromide via an electron-transfer state of 9-mesityl-10-methylacridinium ion. <i>Chemical Science</i> , 2011 , 2, 715	9.4	147
519	Driving force dependence of intermolecular electron-transfer reactions of fullerenes. <i>Chemistry - A European Journal</i> , 2003 , 9, 1585-93	4.8	147
518	Mechanisms of Sulfoxidation Catalyzed by High-Valent Intermediates of Heme Enzymes: Electron-Transfer vs Oxygen-Transfer Mechanism. <i>Journal of the American Chemical Society</i> , 1999 , 121, 9497-9502	16.4	146
517	Water oxidation catalysis with nonheme iron complexes under acidic and basic conditions: homogeneous or heterogeneous?. <i>Inorganic Chemistry</i> , 2013 , 52, 9522-31	5.1	144
516	Ion-mediated electron transfer in a supramolecular donor-acceptor ensemble. <i>Science</i> , 2010 , 329, 1324-7	33.3	144
515	Photoalkylation of 10-alkylacridinium ion via a charge-shift type of photoinduced electron transfer controlled by solvent polarity. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8459-67	16.4	143
514	Assemblies of artificial photosynthetic reaction centres. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4575		140
513	Efficient photoinduced electron transfer in a porphyrin tripod-fullerene supramolecular complex via pi-pi interactions in nonpolar media. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4477-89	16.4	140
512	Production of hydrogen peroxide as a sustainable solar fuel from water and dioxygen. <i>Energy and Environmental Science</i> , 2013 , 6, 3756	35.4	139
511	Direct oxygenation of benzene to phenol using quinolinium ions as homogeneous photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 8652-5	16.4	139
510	Exciplex intermediates in photoinduced electron transfer of porphyrin-fullerene dyads. <i>Journal of the American Chemical Society</i> , 2002 , 124, 8067-77	16.4	135
509	Efficient water oxidation by cerium ammonium nitrate with [IrIII(Cp*)(4,4'-bishydroxy-2,2'-bipyridine)(H2O)] ²⁺ as a precatalyst. <i>Energy and Environmental Science</i> , 2012 , 5, 5708-5716	35.4	131
508	Catalytic effects of dioxygen on intramolecular electron transfer in radical ion pairs of zinc porphyrin-linked fullerenes. <i>Journal of the American Chemical Society</i> , 2001 , 123, 2571-5	16.4	130
507	Efficient reduction of dioxygen with ferrocene derivatives, catalyzed by metalloporphyrins in the presence of perchloric acid. <i>Inorganic Chemistry</i> , 1989 , 28, 2459-2465	5.1	130
506	Fundamental electron-transfer properties of non-heme oxoiron(IV) complexes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 434-5	16.4	128
505	Cupric superoxo-mediated intermolecular C-H activation chemistry. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1702-5	16.4	126
504	Hydride Transfer from 9-Substituted 10-Methyl-9,10-dihydroacridines to Hydride Acceptors via Charge-Transfer Complexes and Sequential Electron-Proton-Electron Transfer. A Negative Temperature Dependence of the Rates. <i>Journal of the American Chemical Society</i> , 2000 , 122, 4286-4294	16.4	126
503	Ruthenium-catalyzed selective and efficient oxygenation of hydrocarbons with water as an oxygen source. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 5772-6	16.4	119

502	Electron-transfer oxidation of 9-substituted 10-methyl-9,10-dihydroacridines. Cleavage of the carbon-hydrogen vs. carbon-carbon bond of the radical cations. <i>Journal of the American Chemical Society</i> , 1993 , 115, 8960-8968	16.4	118
501	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. <i>Journal of the American Chemical Society</i> , 2012 , 134, 367-74	16.4	117
500	Ion-controlled on-off switch of electron transfer from tetrathiafulvalene calix[4]pyrroles to Li ⁺ @C60. <i>Journal of the American Chemical Society</i> , 2011 , 133, 15938-41	16.4	116
499	Highly efficient photocatalytic oxygenation reactions using water as an oxygen source. <i>Nature Chemistry</i> , 2011 , 3, 38-41	17.6	114
498	Protonated iron ^{II} phthalocyanine complex used for cathode material of a hydrogen peroxide fuel cell operated under acidic conditions. <i>Energy and Environmental Science</i> , 2011 , 4, 2822	35.4	114
497	Metal ion-coupled and decoupled electron transfer. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 372-385	23.2	113
496	Redox-inactive metal ions modulate the reactivity and oxygen release of mononuclear non-haem iron(III)-peroxo complexes. <i>Nature Chemistry</i> , 2014 , 6, 934-40	17.6	111
495	Enhanced electron-transfer reactivity of nonheme manganese(IV)-oxo complexes by binding scandium ions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9186-94	16.4	111
494	Hydrogen peroxide as sustainable fuel: electrocatalysts for production with a solar cell and decomposition with a fuel cell. <i>Chemical Communications</i> , 2010 , 46, 7334-6	5.8	109
493	Electron-transfer properties of high-valent metal-oxo complexes. <i>Coordination Chemistry Reviews</i> , 2013 , 257, 1564-1575	23.2	108
492	Hydrogen storage and evolution catalysed by metal hydride complexes. <i>Dalton Transactions</i> , 2013 , 42, 18-28	4.3	106
491	Photocatalytic production of hydrogen by disproportionation of one-electron-reduced rhodium and iridium-ruthenium complexes in water. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 728-31	16.4	106
490	Mononuclear copper complex-catalyzed four-electron reduction of oxygen. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6874-5	16.4	106
489	Enhanced electron-transfer properties of cofacial porphyrin dimers through pi-pi interactions. <i>Chemistry - A European Journal</i> , 2009 , 15, 3110-22	4.8	105
488	Fluorescence maxima of 10-methylacridone-metal ion salt complexes: a convenient and quantitative measure of lewis acidity of metal ion salts. <i>Journal of the American Chemical Society</i> , 2002 , 124, 10270-1	16.4	105
487	Mechanistic insights into the oxidation of substituted phenols via hydrogen atom abstraction by a cupric-superoxo complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9925-37	16.4	104
486	LaCoO ₃ acting as an efficient and robust catalyst for photocatalytic water oxidation with persulfate. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5753-60	3.6	103
485	Hydrogen atom abstraction and hydride transfer reactions by iron(IV)-oxo porphyrins. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7321-4	16.4	103

484	Persistent electron-transfer state of a pi-complex of acridinium ion inserted between porphyrin rings of cofacial bisporphyrins. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14625-33	16.4	103
483	Mechanism of hydride transfer from an NADH model compound to p-benzoquinone derivatives. <i>Journal of Organic Chemistry</i> , 1984 , 49, 3571-3578	4.2	103
482	Dioxygen activation by mononuclear nonheme iron(II) complexes generates iron-oxygen intermediates in the presence of an NADH analogue and proton. <i>Journal of the American Chemical Society</i> , 2009 , 131, 13910-1	16.4	102
481	A Manganese(V)-Oxo Complex: Synthesis by Dioxygen Activation and Enhancement of Its Oxidizing Power by Binding Scandium Ion. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8523-32	16.4	101
480	Homogeneous versus Heterogeneous Catalysts in Water Oxidation. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 645-659	2.3	101
479	Efficient two-electron reduction of dioxygen to hydrogen peroxide with one-electron reductants with a small overpotential catalyzed by a cobalt chlorin complex. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2800-8	16.4	100
478	Catalysis on Electron Transfer and the Mechanistic Insight into Redox Reactions. <i>Bulletin of the Chemical Society of Japan</i> , 1997 , 70, 1-28	5.1	99
477	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. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 722-726		99
476	Lewis Acid Coupled Electron Transfer of Metal-Oxygen Intermediates. <i>Chemistry - A European Journal</i> , 2015 , 21, 17548-59	4.8	98
475	Supramolecular tetrad of subphthalocyanine-triphenylamine-zinc porphyrin coordinated to fullerene as an "antenna-reaction-center" mimic: formation of a long-lived charge-separated state in nonpolar solvent. <i>Chemistry - A European Journal</i> , 2010 , 16, 6193-202	4.8	98
474	Unified view of oxidative C-H bond cleavage and sulfoxidation by a nonheme iron(IV)-oxo complex via Lewis acid-promoted electron transfer. <i>Inorganic Chemistry</i> , 2014 , 53, 3618-28	5.1	97
473	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. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14984-5	16.4	96
472	Rational Design and Functions of Electron Donor-Acceptor Dyads with Much Longer Charge-Separated Lifetimes than Natural Photosynthetic Reaction Centers. <i>Bulletin of the Chemical Society of Japan</i> , 2009 , 82, 303-315	5.1	95
471	Mechanisms and applications of cyclometalated Pt(II) complexes in photoredox catalytic trifluoromethylation. <i>Chemical Science</i> , 2015 , 6, 1454-1464	9.4	94
470	A discrete supramolecular conglomerate composed of two saddle-distorted zinc(II)-phthalocyanine complexes and a doubly protonated porphyrin with saddle distortion undergoing efficient photoinduced electron transfer. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6712-6	16.4	94
469	Thermal and photocatalytic production of hydrogen with earth-abundant metal complexes. <i>Coordination Chemistry Reviews</i> , 2018 , 355, 54-73	23.2	93
468	Thienyl-substituted methanofullerene derivatives for organic photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2010 , 20, 475-482		93
467	Homogeneous catalytic O ₂ reduction to water by a cytochrome c oxidase model with trapping of intermediates and mechanistic insights. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 13990-4	11.5	93

- 466 Clarification of the oxidation state of cobalt corroles in heterogeneous and homogeneous catalytic reduction of dioxygen. *Inorganic Chemistry*, **2008**, 47, 6726-37 5.1 93
- 465 Water as an oxygen source in the generation of mononuclear nonheme iron(IV) oxo complexes. *Angewandte Chemie - International Edition*, **2009**, 48, 1803-6 16.4 92
- 464 Electron-transfer mechanism in radical-scavenging reactions by a vitamin E model in a protic medium. *Organic and Biomolecular Chemistry*, **2005**, 3, 626-9 3.9 92
- 463 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, 16136-45 16.4 91
- 462 Intramolecular electron transfer within the substituted tetrathiafulvalene-quinone dyads: facilitated by metal ion and photomodulation in the presence of spiropyran. *Journal of the American Chemical Society*, **2007**, 129, 6839-46 16.4 91
- 461 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 16.4 91
- 460 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, 12850-9 16.4 90
- 459 Hydrogen-atom abstraction reactions by manganese(V)- and manganese(IV)-oxo porphyrin complexes in aqueous solution. *Chemistry - A European Journal*, **2009**, 15, 11482-9 4.8 89
- 458 Mimicking photosynthetic antenna-reaction-center complexes with a (boron dipyrromethene)3-porphyrin-C60 pentad. *Chemistry - A European Journal*, **2011**, 17, 1605-13 4.8 88
- 457 Catalytic four-electron reduction of O₂ via rate-determining proton-coupled electron transfer to a dinuclear cobalt- μ_2 -peroxo complex. *Journal of the American Chemical Society*, **2012**, 134, 9906-9 16.4 87
- 456 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 C-H bond oxygenation. *Journal of the American Chemical Society*, **2011**, 133, 11692-700 16.4 87
- 455 Selective electrochemical reduction of CO₂ to CO with a cobalt chlorin complex adsorbed on multi-walled carbon nanotubes in water. *Chemical Communications*, **2015**, 51, 10226-8 5.8 86
- 454 Brønsted acid-promoted C-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, 5052-61 16.4 86
- 453 Size- and shape-dependent activity of metal nanoparticles as hydrogen-evolution catalysts: mechanistic insights into photocatalytic hydrogen evolution. *Chemistry - A European Journal*, **2011**, 17, 2777-85 4.8 86
- 452 Production of Liquid Solar Fuels and Their Use in Fuel Cells. *Joule*, **2017**, 1, 689-738 27.8 85
- 451 Anion-complexation-induced stabilization of charge separation. *Journal of the American Chemical Society*, **2009**, 131, 16138-46 16.4 85
- 450 High and robust performance of H₂O₂ fuel cells in the presence of scandium ion. *Energy and Environmental Science*, **2015**, 8, 1698-1701 35.4 84
- 449 One-Step Selective Hydroxylation of Benzene to Phenol with Hydrogen Peroxide Catalysed by Copper Complexes Incorporated into Mesoporous Silica-Alumina. *Chemical Science*, **2016**, 7, 2856-2863 9.4 84

448	Control of photoinduced electron transfer in zinc phthalocyanine-perylenediimide dyad and triad by the magnesium ion. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 10744-52	2.8	83
447	Mechanisms of hydrogen-, oxygen-, and electron-transfer reactions of cumylperoxyl radical. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9074-82	16.4	83
446	Photocatalytic hydrogen evolution with Ni nanoparticles by using 2-phenyl-4-(1-naphthyl)quinolinium ion as a photocatalyst. <i>Energy and Environmental Science</i> , 2012 , 5, 6111	35.4	82
445	Electron-transfer oxidation properties of DNA bases and DNA oligomers. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 3285-94	2.8	82
444	Small Reorganization Energy of Intramolecular Electron Transfer in Fullerene-Based Dyads with Short Linkage. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 10991-10998	2.8	81
443	Resonance Raman Spectroscopy as a Probe of the Bis(Ebxo)dicopper Core. <i>Journal of the American Chemical Society</i> , 2000 , 122, 792-802	16.4	81
442	Long-lived long-distance photochemically induced spin-polarized charge separation in β -pyrrolic fused ferrocene-porphyrin-fullerene systems. <i>Chemical Science</i> , 2012 , 3, 257-269	9.4	80
441	Structures and photoinduced electron transfer of protonated complexes of porphyrins and metallophthalocyanines. <i>Coordination Chemistry Reviews</i> , 2012 , 256, 2488-2502	23.2	79
440	Proton-promoted oxygen atom transfer vs proton-coupled electron transfer of a non-heme iron(IV)-oxo complex. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3903-11	16.4	79
439	Enhanced catalytic four-electron dioxygen (O ₂) and two-electron hydrogen peroxide (H ₂ O ₂) reduction with a copper(II) complex possessing a pendant ligand pivalamido group. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6513-22	16.4	79
438	Sequential electron-transfer and proton-transfer pathways in hydride-transfer reactions from dihydronicotinamide adenine dinucleotide analogues to non-heme oxoiron(IV) complexes and p-chloranil. Detection of radical cations of NADH analogues in acid-promoted hydride-transfer reactions. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15134-42	16.4	78
437	Dehydrogenation versus oxygenation in two-electron and four-electron reduction of dioxygen by 9-alkyl-10-methyl-9,10-dihydroacridines catalyzed by monomeric cobalt porphyrins and cofacial dicobalt porphyrins in the presence of perchloric acid. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15358-66	16.4	78
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