

Wonwoo Nam

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

382
papers

25,041
citations

87
h-index

139
g-index

407
ext. papers

27,219
ext. citations

10.3
avg, IF

7.37
L-index

#	Paper	IF	Citations
382	Molecular Photocatalytic Water Splitting by Mimicking Photosystems I and II.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	5
381	Bromoacetic Acid-Promoted Nonheme Manganese-Catalyzed Alkane Hydroxylation Inspired by β -Ketoglutarate-Dependent Oxygenases. <i>ACS Catalysis</i> , 2022 , 12, 6756-6769	13.1	2
380	Hydrogen Evolution by Molecular Photocatalysis. <i>Springer Handbooks</i> , 2022 , 1381-1395	1.3	
379	Deuterium kinetic isotope effects as redox mechanistic criterions. <i>Bulletin of the Korean Chemical Society</i> , 2021 , 42, 1558	1.2	5
378	The Oxo-Wall Remains Intact: A Tetrahedrally Distorted Co(IV)-Oxo Complex. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16943-16959	16.4	0
377	Deeper Understanding of Mononuclear Manganese(IV)-Oxo Binding Brønsted and Lewis Acids and the Manganese(IV)-Hydroxide Complex. <i>Inorganic Chemistry</i> , 2021 , 60, 16996-17007	5.1	4
376	Enthalpy-Entropy Compensation Effect in Oxidation Reactions by Manganese(IV)-Oxo Porphyrins and Nonheme Iron(IV)-Oxo Models. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18559-18570	16.4	4
375	Ligand Architecture Perturbation Influences the Reactivity of Nonheme Iron(V)-Oxo Tetraamido Macrocyclic Ligand Complexes: A Combined Experimental and Theoretical Study. <i>Inorganic Chemistry</i> , 2021 , 60, 4058-4067	5.1	4
374	Biomimetic metal-oxidant adducts as active oxidants in oxidation reactions. <i>Coordination Chemistry Reviews</i> , 2021 , 435, 213807	23.2	14
373	EPR spectroscopy elucidates the electronic structure of [FeV(O)(TAML)] complexes. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 3775-3783	6.8	3
372	Transition metal-mediated O-O bond formation and activation in chemistry and biology. <i>Chemical Society Reviews</i> , 2021 , 50, 4804-4811	58.5	38
371	Acid-promoted hydride transfer from an NADH analogue to a Cr(III)-superoxo complex via a proton-coupled hydrogen atom transfer. <i>Dalton Transactions</i> , 2021 , 50, 675-680	4.3	2
370	A Mononuclear Non-Heme Manganese(III)-Aqua Complex in Oxygen Atom Transfer Reactions via Electron Transfer. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1521-1528	16.4	6
369	Formation of cobalt-oxygen intermediates by dioxygen activation at a mononuclear nonheme cobalt(II) center. <i>Dalton Transactions</i> , 2021 , 50, 11889-11898	4.3	1
368	A Highly Reactive Chromium(V)Oxo TAML Cation Radical Complex in Electron Transfer and Oxygen Atom Transfer Reactions. <i>ACS Catalysis</i> , 2021 , 11, 2889-2901	13.1	6
367	Highly Efficient Catalytic Two-Electron Two-Proton Reduction of Dioxygen to Hydrogen Peroxide with a Cobalt Corrole Complex. <i>ACS Catalysis</i> , 2021 , 11, 3073-3083	13.1	10
366	Recent progress in production and usage of hydrogen peroxide. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1241-1252	11.3	14

365	Nonheme Iron Imido Complexes Bearing a Non-Innocent Ligand: A Synthetic Chameleon Species in Oxidation Reactions. <i>Chemistry - A European Journal</i> , 2021 , 27, 17495-17503	4.8	1
364	How does Lewis acid affect the reactivity of mononuclear high-valent chromium-oxo species? A theoretical study. <i>Bulletin of the Korean Chemical Society</i> , 2021 , 42, 1501	1.2	2
363	Electronic properties and reactivity patterns of high-valent metal-oxo species of Mn, Fe, Co, and Ni. <i>Bulletin of the Korean Chemical Society</i> , 2021 , 42, 1506	1.2	2
362	Identifying Intermediates in Electrocatalytic Water Oxidation with a Manganese Corrole Complex. <i>Journal of the American Chemical Society</i> , 2021 , 143, 14613-14621	16.4	16
361	A Mononuclear Non-heme Iron(III)-Peroxo Complex with an Unprecedented High O-O Stretch and Electrophilic Reactivity. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15556-15561	16.4	5
360	Catalytic Four-Electron Reduction of Dioxygen by Ferrocene Derivatives with a Nonheme Iron(III) TAML Complex. <i>Inorganic Chemistry</i> , 2020 , 59, 18010-18017	5.1	5
359	Structure and Unprecedented Reactivity of a Mononuclear Nonheme Cobalt(III) Iodosylbenzene Complex. <i>Angewandte Chemie</i> , 2020 , 132, 13683-13687	3.6	
358	Iron and manganese oxo complexes, oxo wall and beyond. <i>Nature Reviews Chemistry</i> , 2020 , 4, 404-419	34.6	87
357	Artificial nonheme iron and manganese oxygenases for enantioselective olefin epoxidation and alkane hydroxylation reactions. <i>Coordination Chemistry Reviews</i> , 2020 , 421, 213443	23.2	35
356	Electron-Transfer and Redox Reactivity of High-Valent Iron Imido and Oxo Complexes with the Formal Oxidation States of Five and Six. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3891-3904	16.4	33
355	Bioinspired artificial photosynthesis systems. <i>Tetrahedron</i> , 2020 , 76, 131024	2.4	11
354	Metal ion-coupled electron-transfer reactions of metal-oxygen complexes. <i>Coordination Chemistry Reviews</i> , 2020 , 410, 213219	23.2	27
353	Generation and Electron-Transfer Reactivity of the Long-Lived Photoexcited State of a Manganese(IV)-Oxo-Scandium Nitrate Complex. <i>Israel Journal of Chemistry</i> , 2020 , 60, 1049-1056	3.4	2
352	Structure and Unprecedented Reactivity of a Mononuclear Nonheme Cobalt(III) Iodosylbenzene Complex. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13581-13585	16.4	12
351	Mechanistic dichotomies in redox reactions of mononuclear metal-oxygen intermediates. <i>Chemical Society Reviews</i> , 2020 , 49, 8988-9027	58.5	35
350	Tuning Electron-Transfer Reactivity of a Chromium(III)-Superoxo Complex Enabled by Calcium Ion and Other Redox-Inactive Metal Ions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 365-372	16.4	9
349	Photoinduced Generation of Superoxidants for the Oxidation of Substrates with High C-H Bond Dissociation Energies. <i>ChemPhotoChem</i> , 2020 , 4, 271-281	3.3	2
348	Stable carbamate pathway towards organic-inorganic hybrid perovskites and aromatic imines.. <i>RSC Advances</i> , 2020 , 10, 38055-38062	3.7	1

347	Photocatalytic Hydrogen Evolution from Plastoquinol Analogues as a Potential Functional Model of Photosystem I. <i>Inorganic Chemistry</i> , 2020 , 59, 14838-14846	5.1	5
346	Acid Catalysis via Acid-Promoted Electron Transfer. <i>Bulletin of the Korean Chemical Society</i> , 2020 , 41, 1217-1232	1.2	17
345	Unprecedented Reactivities of Highly Reactive Manganese(III)-Iodosylarene Porphyrins in Oxidation Reactions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19879-19884	16.4	6
344	Enhanced Redox Reactivity of a Nonheme Iron(V)-Oxo Complex Binding Proton. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15305-15319	16.4	14
343	Proton-promoted disproportionation of iron(V)-imido TAML to iron(V)-imido TAML cation radical and iron(IV) TAML. <i>Chemical Communications</i> , 2020 , 56, 11207-11210	5.8	4
342	Photocatalytic redox reactions with metalloporphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020 , 24, 21-32	1.8	7
341	Singly Unified Driving Force Dependence of Outer-Sphere Electron-Transfer Pathways of Nonheme Manganese(IV)-Oxo Complexes in the Absence and Presence of Lewis Acids. <i>Inorganic Chemistry</i> , 2019 , 58, 13761-13765	5.1	12
340	Trapping of a Highly Reactive Oxoiron(IV) Complex in the Catalytic Epoxidation of Olefins by Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4012-4016	16.4	29
339	Kinetics and mechanisms of catalytic water oxidation. <i>Dalton Transactions</i> , 2019 , 48, 779-798	4.3	35
338	Aromatic hydroxylation of anthracene derivatives by a chromium(III)-superoxo complex via proton-coupled electron transfer. <i>Chemical Communications</i> , 2019 , 55, 8286-8289	5.8	1
337	A theoretical investigation into the first-row transition metal O ₂ adducts. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2071-2081	6.8	6
336	Small Reorganization Energy for Ligand-Centered Electron-Transfer Reduction of Compound I to Compound II in a Heme Model Study. <i>Inorganic Chemistry</i> , 2019 , 58, 8263-8266	5.1	10
335	Photocatalytic Oxygenation Reactions with a Cobalt Porphyrin Complex Using Water as an Oxygen Source and Dioxygen as an Oxidant. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9155-9159	16.4	19
334	Structure and reactivity of the first-row d-block metal-superoxo complexes. <i>Dalton Transactions</i> , 2019 , 48, 9469-9489	4.3	37
333	Tunneling Controls the Reaction Pathway in the Deformylation of Aldehydes by a Nonheme Iron(III)-Hydroperoxo Complex: Hydrogen Atom Abstraction versus Nucleophilic Addition. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7675-7679	16.4	19
332	A Mn(IV)-peroxo complex in the reactions with proton donors. <i>Dalton Transactions</i> , 2019 , 48, 5203-5213	4.3	5
331	Photodriven Oxidation of Water by Plastoquinone Analogs with a Nonheme Iron Catalyst. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6748-6754	16.4	13
330	Trapping of a Highly Reactive Oxoiron(IV) Complex in the Catalytic Epoxidation of Olefins by Hydrogen Peroxide. <i>Angewandte Chemie</i> , 2019 , 131, 4052-4056	3.6	12

329	Catalytic recycling of NAD(P)H. <i>Journal of Inorganic Biochemistry</i> , 2019 , 199, 110777	4.2	18
328	Highly Reactive Manganese(IV)-Oxo Porphyrins Showing Temperature-Dependent Reversed Electronic Effect in C-H Bond Activation Reactions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12187-12191	16.4	40
327	Photocatalytic Oxygenation Reactions Using Water and Dioxygen. <i>ChemSusChem</i> , 2019 , 12, 3931-3940	8.3	20
326	Regioselective Oxybromination of Benzene and Its Derivatives by Bromide Anion with a Mononuclear Nonheme Mn(IV)-Oxo Complex. <i>Inorganic Chemistry</i> , 2019 , 58, 14299-14303	5.1	8
325	A High-Valent Manganese(IV)-Oxo-Cerium(IV) Complex and Its Enhanced Oxidizing Reactivity. <i>Angewandte Chemie</i> , 2019 , 131, 16270-16275	3.6	7
324	A High-Valent Manganese(IV)-Oxo-Cerium(IV) Complex and Its Enhanced Oxidizing Reactivity. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16124-16129	16.4	20
323	High-Spin Mn(V)-Oxo Intermediate in Nonheme Manganese Complex-Catalyzed Alkane Hydroxylation Reaction: Experimental and Theoretical Approach. <i>Inorganic Chemistry</i> , 2019 , 58, 14842-14852	5.1	25
322	Redox Reactivity of a Mononuclear Manganese-Oxo Complex Binding Calcium Ion and Other Redox-Inactive Metal Ions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1324-1336	16.4	50
321	A Mononuclear Nonheme Iron(IV)-Amido Complex Relevant for the Compound II Chemistry of Cytochrome P450. <i>Journal of the American Chemical Society</i> , 2019 , 141, 80-83	16.4	18
320	Heme and Nonheme High-Valent Iron and Manganese Oxo Cores in Biological and Abiological Oxidation Reactions. <i>ACS Central Science</i> , 2019 , 5, 13-28	16.8	179
319	Unified Mechanism of Oxygen Atom Transfer and Hydrogen Atom Transfer Reactions with a Triflic Acid-Bound Nonheme Manganese(IV)-Oxo Complex via Outer-Sphere Electron Transfer. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2614-2622	16.4	21
318	Amphoteric reactivity of metal-oxygen complexes in oxidation reactions. <i>Coordination Chemistry Reviews</i> , 2018 , 365, 41-59	23.2	58
317	Mechanistic Insights into the Enantioselective Epoxidation of Olefins by Bioinspired Manganese Complexes: Role of Carboxylic Acid and Nature of Active Oxidant. <i>ACS Catalysis</i> , 2018 , 8, 4528-4538	13.1	50
316	Highly Enantioselective Oxidation of Spirocyclic Hydrocarbons by Bioinspired Manganese Catalysts and Hydrogen Peroxide. <i>ACS Catalysis</i> , 2018 , 8, 2479-2487	13.1	49
315	Thermal and photocatalytic oxidation of organic substrates by dioxygen with water as an electron source. <i>Green Chemistry</i> , 2018 , 20, 948-963	10	14
314	A mononuclear manganese(III)-hydroperoxo complex: synthesis by activating dioxygen and reactivity in electrophilic and nucleophilic reactions. <i>Chemical Communications</i> , 2018 , 54, 1209-1212	5.8	33
313	Solar-Driven Production of Hydrogen Peroxide from Water and Dioxygen. <i>Chemistry - A European Journal</i> , 2018 , 24, 5016-5031	4.8	64
312	Thermal and photocatalytic production of hydrogen with earth-abundant metal complexes. <i>Coordination Chemistry Reviews</i> , 2018 , 355, 54-73	23.2	93

311	Mn(III)-Iodosylarene Porphyrins as an Active Oxidant in Oxidation Reactions: Synthesis, Characterization, and Reactivity Studies. <i>Inorganic Chemistry</i> , 2018 , 57, 10232-10240	5.1	15
310	A mononuclear nonheme {FeNO} complex: synthesis and structural and spectroscopic characterization. <i>Chemical Science</i> , 2018 , 9, 6952-6960	9.4	8
309	Enhanced Electron-Transfer Reactivity of a Long-Lived Photoexcited State of a Cobalt-Oxygen Complex. <i>Inorganic Chemistry</i> , 2018 , 57, 10945-10952	5.1	11
308	Long-Lived Photoexcited State of a Mn(IV)-Oxo Complex Binding Scandium Ions That is Capable of Hydroxylating Benzene. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8405-8409	16.4	24
307	Immobilization of Molecular Catalysts for Enhanced Redox Catalysis. <i>ChemCatChem</i> , 2018 , 10, 1686-1702	3.2	27
306	Artificial Photosynthesis for Production of ATP, NAD(P)H, and Hydrogen Peroxide. <i>ChemPhotoChem</i> , 2018 , 2, 121-135	3.3	17
305	Mechanisms of Two-Electron versus Four-Electron Reduction of Dioxygen Catalyzed by Earth-Abundant Metal Complexes. <i>ChemCatChem</i> , 2018 , 10, 9-28	5.2	63
304	Photoexcited state chemistry of metal-oxygen complexes. <i>Dalton Transactions</i> , 2018 , 47, 16019-16026	4.3	5
303	A Manganese(V)-Oxo Tetraamido Macrocyclic Ligand (TAML) Cation Radical Complex: Synthesis, Characterization, and Reactivity Studies. <i>Chemistry - A European Journal</i> , 2018 , 24, 17927-17931	4.8	11
302	A Mononuclear Non-heme Manganese(III)-Aqua Complex as a New Active Oxidant in Hydrogen Atom Transfer Reactions. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12695-12699	16.4	19
301	Mimicry and functions of photosynthetic reaction centers. <i>Biochemical Society Transactions</i> , 2018 , 46, 1279-1288	5.1	20
300	Hydrogen Atom Transfer Reactions of Mononuclear Nonheme Metal-Oxygen Intermediates. <i>Accounts of Chemical Research</i> , 2018 , 51, 2014-2022	24.3	68
299	Mechanisms of catalytic reduction of CO with heme and nonheme metal complexes. <i>Chemical Science</i> , 2018 , 9, 6017-6034	9.4	71
298	Remarkable Acid Catalysis in Proton-Coupled Electron-Transfer Reactions of a Chromium(III)-Superoxo Complex. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8372-8375	16.4	21
297	Effects of Lewis Acids on Photoredox Catalysis. <i>Asian Journal of Organic Chemistry</i> , 2017 , 6, 397-409	3	17
296	Reactivity Patterns of (Protonated) Compound II and Compound I of Cytochrome P450: Which is the Better Oxidant?. <i>Chemistry - A European Journal</i> , 2017 , 23, 6406-6418	4.8	55
295	A Chromium(III)-Superoxo Complex as a Three-Electron Oxidant with a Large Tunneling Effect in Multi-Electron Oxidation of NADH Analogues. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3510-3515	16.4	16
294	Selective Oxygenation of Cyclohexene by Dioxygen via an Iron(V)-Oxo Complex-Autocatalyzed Reaction. <i>Inorganic Chemistry</i> , 2017 , 56, 5096-5104	5.1	37

293	A Mononuclear Nonheme Iron(V)-Imido Complex. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8800-8803	16.4	47
292	Mutable Properties of Nonheme Iron(III)-Iodosylarene Complexes Result in the Elusive Multiple-Oxidant Mechanism. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7444-7447	16.4	28
291	Structure and spin state of nonheme FeO complexes depending on temperature: predictive insights from DFT calculations and experiments. <i>Chemical Science</i> , 2017 , 8, 5460-5467	9.4	17
290	Synthesis and reactivity of a mononuclear non-haem cobalt(IV)-oxo complex. <i>Nature Communications</i> , 2017 , 8, 14839	17.4	94
289	Multi-Electron Oxidation of Anthracene Derivatives by Nonheme Manganese(IV)-Oxo Complexes. <i>Chemistry - A European Journal</i> , 2017 , 23, 7125-7131	4.8	14
288	Tunneling Effect That Changes the Reaction Pathway from Epoxidation to Hydroxylation in the Oxidation of Cyclohexene by a Compound I Model of Cytochrome P450. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1557-1561	6.4	17
287	A Chromium(III)-Superoxo Complex as a Three-Electron Oxidant with a Large Tunneling Effect in Multi-Electron Oxidation of NADH Analogues. <i>Angewandte Chemie</i> , 2017 , 129, 3564-3569	3.6	5
286	Fine Control of the Redox Reactivity of a Nonheme Iron(III)-Peroxo Complex by Binding Redox-Inactive Metal Ions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 801-805	16.4	36
285	Fine Control of the Redox Reactivity of a Nonheme Iron(III)-Peroxo Complex by Binding Redox-Inactive Metal Ions. <i>Angewandte Chemie</i> , 2017 , 129, 819-823	3.6	7
284	Achieving One-Electron Oxidation of a Mononuclear Nonheme Iron(V)-Imido Complex. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14372-14375	16.4	39
283	A Highly Reactive Oxoiron(IV) Complex Supported by a Bioinspired N O Macrocyclic Ligand. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14384-14388	16.4	32
282	A Highly Reactive Oxoiron(IV) Complex Supported by a Bioinspired N3O Macrocyclic Ligand. <i>Angewandte Chemie</i> , 2017 , 129, 14576-14580	3.6	10
281	Dioxygen Activation and O-O Bond Formation Reactions by Manganese Corroles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15858-15867	16.4	50
280	Photocatalytic oxidation of benzene to phenol using dioxygen as an oxygen source and water as an electron source in the presence of a cobalt catalyst. <i>Chemical Science</i> , 2017 , 8, 7119-7125	9.4	46
279	Fuel Production from Seawater and Fuel Cells Using Seawater. <i>ChemSusChem</i> , 2017 , 10, 4264-4276	8.3	55
278	Manganese complex-catalyzed oxidation and oxidative kinetic resolution of secondary alcohols by hydrogen peroxide. <i>Chemical Science</i> , 2017 , 8, 7476-7482	9.4	36
277	Direct oxygen atom transfer versus electron transfer mechanisms in the phosphine oxidation by nonheme Mn(IV)-oxo complexes. <i>Chemical Communications</i> , 2017 , 53, 9352-9355	5.8	14
276	Autocatalytic dioxygen activation to produce an iron(V)-oxo complex without any reductants. <i>Chemical Communications</i> , 2017 , 53, 8348-8351	5.8	14

275	Dioxygen activation chemistry by synthetic mononuclear nonheme iron, copper and chromium complexes. <i>Coordination Chemistry Reviews</i> , 2017 , 334, 25-42	23.2	112
274	High-valent metal-oxo complexes generated in catalytic oxidation reactions using water as an oxygen source. <i>Coordination Chemistry Reviews</i> , 2017 , 333, 44-56	23.2	49
273	Photocatalytic Asymmetric Epoxidation of Terminal Olefins Using Water as an Oxygen Source in the Presence of a Mononuclear Non-Heme Chiral Manganese Complex. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15857-15860	16.4	47
272	Factors Controlling the Chemoselectivity in the Oxidation of Olefins by Nonheme Manganese(IV)-Oxo Complexes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10654-63	16.4	44
271	Nuclear Resonance Vibrational Spectroscopic Definition of Peroxy Intermediates in Nonheme Iron Sites. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14294-14302	16.4	4
270	Switchover of the Mechanism between Electron Transfer and Hydrogen-Atom Transfer for a Protonated Manganese(IV)-Oxo Complex by Changing Only the Reaction Temperature. <i>Angewandte Chemie</i> , 2016 , 128, 7576-7580	3.6	8
269	Homogeneous and Heterogeneous Photocatalytic Water Oxidation by Persulfate. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1138-50	4.5	59
268	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
267	Dioxygen Activation by a Macrocyclic Copper Complex Leads to a Cu ₂ O ₂ Core with Unexpected Structure and Reactivity. <i>Chemistry - A European Journal</i> , 2016 , 22, 5133-7	4.8	19
266	Mononuclear Nonheme High-Spin Iron(III)-Acylperoxo Complexes in Olefin Epoxidation and Alkane Hydroxylation Reactions. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2426-36	16.4	54
265	An amphoteric reactivity of a mixed-valent bis(μ-oxo)dimanganese(III,IV) complex acting as an electrophile and a nucleophile. <i>Dalton Transactions</i> , 2016 , 45, 376-83	4.3	19
264	Proton-Promoted and Anion-Enhanced Epoxidation of Olefins by Hydrogen Peroxide in the Presence of Nonheme Manganese Catalysts. <i>Journal of the American Chemical Society</i> , 2016 , 138, 936-43	16.4	83
263	To rebound or dissociate? This is the mechanistic question in C-H hydroxylation by heme and nonheme metal-oxo complexes. <i>Chemical Society Reviews</i> , 2016 , 45, 1197-210	58.5	137
262	A theoretical study into a trans-dioxo Mn(V) porphyrin complex that does not follow the oxygen rebound mechanism in C-H bond activation reactions. <i>Chemical Communications</i> , 2016 , 52, 904-7	5.8	12
261	Enhanced Electron Transfer Reactivity of a Nonheme Iron(IV)-Imido Complex as Compared to the Iron(IV)-Oxo Analogue. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3709-13	16.4	22
260	Mononuclear Nonheme High-Spin (S=2) versus Intermediate-Spin (S=1) Iron(IV)-Oxo Complexes in Oxidation Reactions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8027-31	16.4	38
259	Mononuclear Nonheme High-Spin (S=2) versus Intermediate-Spin (S=1) Iron(IV)-Oxo Complexes in Oxidation Reactions. <i>Angewandte Chemie</i> , 2016 , 128, 8159-8163	3.6	10
258	Switchover of the Mechanism between Electron Transfer and Hydrogen-Atom Transfer for a Protonated Manganese(IV)-Oxo Complex by Changing Only the Reaction Temperature. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7450-4	16.4	36

257	Factors That Control the Reactivity of Cobalt(III)-Nitrosyl Complexes in Nitric Oxide Transfer and Dioxygenation Reactions: A Combined Experimental and Theoretical Investigation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7753-7762	16.4	24
256	A mononuclear nonheme cobalt(III)-hydroperoxide complex with an amphoteric reactivity in electrophilic and nucleophilic oxidative reactions. <i>Dalton Transactions</i> , 2016 , 45, 14511-5	4.3	23
255	Thermal and photoinduced electron-transfer catalysis of high-valent metal-oxo porphyrins in oxidation of substrates. <i>Journal of Porphyrins and Phthalocyanines</i> , 2016 , 20, 35-44	1.8	9
254	Enhanced Electron Transfer Reactivity of a Nonheme Iron(IV)Imido Complex as Compared to the Iron(IV)-Oxo Analogue. <i>Angewandte Chemie</i> , 2016 , 128, 3773-3777	3.6	6
253	Mechanistic Insight into the Nitric Oxide Dioxygenation Reaction of Nonheme Iron(III)Superoxo and Manganese(IV)Peroxo Complexes. <i>Angewandte Chemie</i> , 2016 , 128, 12591-12595	3.6	5
252	Mechanistic Insight into the Nitric Oxide Dioxygenation Reaction of Nonheme Iron(III)-Superoxo and Manganese(IV)-Peroxo Complexes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12403-7	16.4	13
251	Intermetal oxygen atom transfer from an FeO complex to a Mn complex: an experimental and theoretical approach. <i>Chemical Communications</i> , 2016 , 52, 12968-12971	5.8	4
250	A cobalt(II) iminoiodane complex and its scandium adduct: mechanistic promiscuity in hydrogen atom abstraction reactions. <i>Dalton Transactions</i> , 2016 , 45, 14538-43	4.3	6
249	High-valent metal-oxo intermediates in energy demanding processes: from dioxygen reduction to water splitting. <i>Current Opinion in Chemical Biology</i> , 2015 , 25, 159-71	9.7	68
248	Mononuclear nonheme iron(IV)-oxo and manganese(IV)-oxo complexes in oxidation reactions: experimental results prove theoretical prediction. <i>Chemical Communications</i> , 2015 , 51, 13094-7	5.8	34
247	Synthetic mononuclear nonheme iron-oxygen intermediates. <i>Accounts of Chemical Research</i> , 2015 , 48, 2415-23	24.3	221
246	Interplay of Experiment and Theory in Elucidating Mechanisms of Oxidation Reactions by a Nonheme Ru(IV)O Complex. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8623-32	16.4	69
245	Determination of Spin Inversion Probability, H-Tunneling Correction, and Regioselectivity in the Two-State Reactivity of Nonheme Iron(IV)-Oxo Complexes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1472-6	6.4	52
244	Tuning the Reactivity of Mononuclear Nonheme Manganese(IV)-Oxo Complexes by Triflic Acid. <i>Chemical Science</i> , 2015 , 6, 3624-3632	9.4	70
243	Reactions of Co(III)-nitrosyl complexes with superoxide and their mechanistic insights. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4284-7	16.4	30
242	Tuning the Reactivity of Chromium(III)-Superoxo Species by Coordinating Axial Ligands. <i>Inorganic Chemistry</i> , 2015 , 54, 10513-20	5.1	15
241	Phosphorescent Zinc Probe for Reversible Turn-On Detection with Bathochromically Shifted Emission. <i>Inorganic Chemistry</i> , 2015 , 54, 9704-14	5.1	11
240	Mononuclear Nonheme Iron(III)-Iodosylarene and High-Valent Iron-Oxo Complexes in Olefin Epoxidation Reactions. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11740-4	16.4	39

239	Mononuclear Nonheme Iron(III)-Iodosylarene and High-Valent Iron-Oxo Complexes in Olefin Epoxidation Reactions. <i>Angewandte Chemie</i> , 2015 , 127, 11906-11910	3.6	7
238	Tuning the Redox Properties of a Nonheme Iron(III)-Peroxo Complex Binding Redox-Inactive Zinc Ions by Water Molecules. <i>Chemistry - A European Journal</i> , 2015 , 21, 10676-80	4.8	12
237	Lewis Acid Coupled Electron Transfer of Metal-Oxygen Intermediates. <i>Chemistry - A European Journal</i> , 2015 , 21, 17548-59	4.8	98
236	Mechanistic insights into the reactions of hydride transfer versus hydrogen atom transfer by a trans-dioxoruthenium(VI) complex. <i>Dalton Transactions</i> , 2015 , 44, 7634-42	4.3	18
235	Efficient Epoxidation of Styrene Derivatives by a Nonheme Iron(IV)-Oxo Complex via Proton-Coupled Electron Transfer with Triflic Acid. <i>Inorganic Chemistry</i> , 2015 , 54, 5806-12	5.1	46
234	A nonheme manganese(IV)-oxo species generated in photocatalytic reaction using water as an oxygen source. <i>Chemical Communications</i> , 2015 , 51, 4013-6	5.8	25
233	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
232	Non-heme manganese catalysts for on-demand production of chlorine dioxide in water and under mild conditions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3680-6	16.4	19
231	Highly Reactive Nonheme Iron(III) Iodosylarene Complexes in Alkane Hydroxylation and Sulfoxidation Reactions. <i>Angewandte Chemie</i> , 2014 , 126, 6506-6510	3.6	14
230	Highly reactive nonheme iron(III) idosylarene complexes in alkane hydroxylation and sulfoxidation reactions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6388-92	16.4	54
229	Mechanistic insights into the C-H bond activation of hydrocarbons by chromium(IV) oxo and chromium(III) superoxo complexes. <i>Inorganic Chemistry</i> , 2014 , 53, 645-52	5.1	46
228	Catalytic oxidation of alkanes by iron bispidine complexes and dioxygen: oxygen activation versus autoxidation. <i>Chemical Communications</i> , 2014 , 50, 412-4	5.8	46
227	Conversion of high-spin iron(III) alkylperoxo to iron(IV) oxo species via O-O bond homolysis in nonheme iron models. <i>Chemical Science</i> , 2014 , 5, 156-162	9.4	39
226	Demonstration of the Heterolytic O-O Bond Cleavage of Putative Nonheme Iron(II) OOH(R) Complexes for Fenton and Enzymatic Reactions. <i>Angewandte Chemie</i> , 2014 , 126, 7977-7981	3.6	21
225	An isoelectronic NO dioxygenase reaction using a nonheme iron(III)-peroxo complex and nitrosonium ion. <i>Chemical Communications</i> , 2014 , 50, 1742-4	5.8	19
224	Mechanistic insight into the hydroxylation of alkanes by a nonheme iron(V)-oxo complex. <i>Chemical Communications</i> , 2014 , 50, 5572-5	5.8	61
223	Lysosome-specific one-photon fluorescence staining and two-photon singlet oxygen generation by molecular dyad. <i>RSC Advances</i> , 2014 , 4, 16913-16916	3.7	16
222	Highly efficient cycloreversion of photochromic dithienylethene compounds using visible light-driven photoredox catalysis. <i>Chemical Science</i> , 2014 , 5, 1463	9.4	35

221	Spectroscopic characterization and reactivity studies of a mononuclear nonheme Mn(III)-hydroperoxo complex. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12229-32	16.4	41
220	Cyclometalated iridium(III) complexes for phosphorescence sensing of biological metal ions. <i>Inorganic Chemistry</i> , 2014 , 53, 1804-15	5.1	119
219	Investigating Superoxide Transfer through a μ_2 -O ₂ Bridge between Nonheme Ni(III)-Peroxo and Mn(II) Species by DFT Methods to Bridge Theoretical and Experimental Views. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2437-42	6.4	6
218	Designing photoluminescent molecular probes for singlet oxygen, hydroxyl radical, and iron(II) species. <i>Chemical Science</i> , 2014 , 5, 4123-4135	9.4	51
217	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
216	Status of reactive non-heme metal-oxygen intermediates in chemical and enzymatic reactions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13942-58	16.4	336
215	Autocatalytic formation of an iron(IV)-oxo complex via scandium ion-promoted radical chain autoxidation of an iron(II) complex with dioxygen and tetraphenylborate. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8042-9	16.4	30
214	Demonstration of the heterolytic O-O bond cleavage of putative nonheme iron(II)-OOH(R) complexes for Fenton and enzymatic reactions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7843-7	16.4	40
213	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
212	Hydride transfer from NADH analogues to a nonheme manganese(IV)-oxo complex via rate-determining electron transfer. <i>Chemical Communications</i> , 2014 , 50, 12944-6	5.8	12
211	Properties and reactivities of nonheme iron(IV)-oxo versus iron(V)-oxo: long-range electron transfer versus hydrogen atom abstraction. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22611-22	3.6	5
210	Crystallographic and spectroscopic characterization and reactivities of a mononuclear non-haem iron(III)-superoxo complex. <i>Nature Communications</i> , 2014 , 5, 5440	17.4	94
209	Spectroscopic capture and reactivity of a low-spin cobalt(IV)-oxo complex stabilized by binding redox-inactive metal ions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10403-10407	16.4	118
208	Spectroscopic Capture and Reactivity of a Low-Spin Cobalt(IV)-Oxo Complex Stabilized by Binding Redox-Inactive Metal Ions. <i>Angewandte Chemie</i> , 2014 , 126, 10571-10575	3.6	30
207	Direct Synthesis of Imines via Solid State Reactions of Carbamates with Aldehydes. <i>Advanced Synthesis and Catalysis</i> , 2013 , 355, n/a-n/a	5.6	5
206	A Mononuclear Nonheme Iron(III)-Peroxo Complex Binding Redox-Inactive Metal Ions. <i>Chemical Science</i> , 2013 , 4, 3917-3923	9.4	69
205	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
204	Solid-state and solvent-free synthesis of azines, pyrazoles, and pyridazinones using solid hydrazine. <i>Tetrahedron Letters</i> , 2013 , 54, 1384-1388	2	39

203	Reactions of a chromium(III)-superoxo complex and nitric oxide that lead to the formation of chromium(IV)-oxo and chromium(III)-nitrito complexes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14900-3	16.4	40
202	Protonation equilibrium and hydrogen production by a dinuclear cobalt-hydride complex reduced by cobaltocene with trifluoroacetic acid. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15294-7	16.4	69
201	Reactivity comparison of high-valent iron(IV)-oxo complexes bearing N-tetramethylated cyclam ligands with different ring size. <i>Dalton Transactions</i> , 2013 , 42, 7842-5	4.3	52
200	Intrinsic properties and reactivities of mononuclear nonheme iron(IV)-oxo complexes bearing the tetramethylcyclam ligand. <i>Coordination Chemistry Reviews</i> , 2013 , 257, 381-393	23.2	140
199	Mononuclear nickel(II)-superoxo and nickel(III)-peroxo complexes bearing a common macrocyclic TMC ligand. <i>Chemical Science</i> , 2013 , 4, 1502-1508	9.4	78
198	Comparison of high-spin and low-spin nonheme Fe(III)-OOH complexes in O-O bond homolysis and H-atom abstraction reactivities. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3286-99	16.4	96
197	Synthetic control over photoinduced electron transfer in phosphorescence zinc sensors. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4771-87	16.4	107
196	An autocatalytic radical chain pathway in formation of an iron(IV)-oxo complex by oxidation of an iron(II) complex with dioxygen and isopropanol. <i>Chemical Communications</i> , 2013 , 49, 2500-2	5.8	17
195	Highly stereoselective directed reactions and an efficient synthesis of azafuranoses from a chiral aziridine. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 3629-34	3.9	11
194	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. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5052-61	16.4	86
193	Temperature-independent catalytic two-electron reduction of dioxygen by ferrocenes with a copper(II) tris[2-(2-pyridyl)ethyl]amine catalyst in the presence of perchloric acid. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2825-34	16.4	56
192	Acid-induced mechanism change and overpotential decrease in dioxygen reduction catalysis with a dinuclear copper complex. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4018-26	16.4	49
191	The Fe(III)(H ₂ O ₂) Complex as a Highly Efficient Oxidant in Sulfoxidation Reactions: Revival of an Underrated Oxidant in Cytochrome P450. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 2519-25	6.4	37
190	A mononuclear non-heme high-spin iron(III)-hydroperoxo complex as an active oxidant in sulfoxidation reactions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8838-41	16.4	64
189	Ratiometric fluorescent probes for detection of intracellular singlet oxygen. <i>Organic Letters</i> , 2013 , 15, 3582-5	6.2	51
188	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
187	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
186	Effects of proton acceptors on formation of a non-heme iron(IV)-oxo complex via proton-coupled electron transfer. <i>Inorganic Chemistry</i> , 2013 , 52, 3094-101	5.1	23

185	Mononuclear manganese-peroxo and bis(μ-oxo)dimanganese complexes bearing a common N-methylated macrocyclic ligand. <i>Chemistry - A European Journal</i> , 2013 , 19, 14119-25	4.8	38
184	Synthesis, characterization, and reactivity of cobalt(III)-oxygen complexes bearing a macrocyclic N-tetramethylated cyclam ligand. <i>Chemistry - A European Journal</i> , 2013 , 19, 14112-8	4.8	22
183	Electron-transfer reduction of dinuclear copper peroxo and bis(μ-oxo) complexes leading to the catalytic four-electron reduction of dioxygen to water. <i>Chemistry - A European Journal</i> , 2012 , 18, 1084-93	4.8	71
182	Catalytic four-electron reduction of O ₂ via rate-determining proton-coupled electron transfer to a dinuclear cobalt(II),2-peroxo complex. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9906-9	16.4	87
181	Evidence for an alternative to the oxygen rebound mechanism in C-H bond activation by non-heme Fe(IV)O complexes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20222-5	16.4	129
180	Nonheme iron-oxo and -superoxo reactivities: O ₂ binding and spin inversion probability matter. <i>Chemical Communications</i> , 2012 , 48, 2189-91	5.8	39
179	Predictive studies of H-atom abstraction reactions by an iron(IV)-oxo corrole cation radical oxidant. <i>Chemical Communications</i> , 2012 , 48, 3491-3	5.8	17
178	Mechanism and fluorescence application of electrochromism in photochromic dithienylcyclopentene. <i>Organic Letters</i> , 2012 , 14, 2238-41	6.2	26
177	Photoelectrocatalysis to Improve Cycloreversion Quantum Yields of Photochromic Dithienylethene Compounds. <i>Angewandte Chemie</i> , 2012 , 124, 13331-13335	3.6	11
176	Photoelectrocatalysis to improve cycloreversion quantum yields of photochromic dithienylethene compounds. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 13154-8	16.4	33
175	Electron-transfer properties of a nonheme manganese(IV)-oxo complex acting as a stronger one-electron oxidant than the iron(IV)-oxo analogue. <i>Chemical Communications</i> , 2012 , 48, 11187-9	5.8	32
174	[Fe(IV)O(TBC)(CH ₃ CN)] ²⁺ : comparative reactivity of iron(IV)-oxo species with constrained equatorial cyclam ligation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11791-806	16.4	65
173	Mechanistic borderline of one-step hydrogen atom transfer versus stepwise Sc(3+)-coupled electron transfer from benzyl alcohol derivatives to a non-heme iron(IV)-oxo complex. <i>Inorganic Chemistry</i> , 2012 , 51, 10025-36	5.1	64
172	Theoretical Investigations into C-H Bond Activation Reaction by Nonheme Mn(IV)O Complexes: Multistate Reactivity with No Oxygen Rebound. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2851-2856	6.4	66
171	Cobalt analogs of Ru-based water oxidation catalysts: overcoming thermodynamic instability and kinetic lability to achieve electrocatalytic O ₂ evolution. <i>Chemical Science</i> , 2012 , 3, 3058	9.4	123
170	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
169	Dioxygen Activation by a Non-Heme Iron(II) Complex: Theoretical Study toward Understanding Ferric-Superoxo Complexes. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 915-26	6.4	61
168	Chromium(IV)-peroxo complex formation and its nitric oxide dioxygenase reactivity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15269-72	16.4	59

167	A chromium(III)-superoxo complex in oxygen atom transfer reactions as a chemical model of cysteine dioxygenase. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11112-5	16.4	56
166	Photofunctional triplet excited states of cyclometalated Ir(III) complexes: beyond electroluminescence. <i>Chemical Society Reviews</i> , 2012 , 41, 7061-84	58.5	505
165	Mononuclear metal-O ₂ complexes bearing macrocyclic N-tetramethylated cyclam ligands. <i>Accounts of Chemical Research</i> , 2012 , 45, 1321-30	24.3	161
164	Factors that control catalytic two- versus four-electron reduction of dioxygen by copper complexes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7025-35	16.4	73
163	A fluorescence turn-on H ₂ O ₂ probe exhibits lysosome-localized fluorescence signals. <i>Chemical Communications</i> , 2012 , 48, 5449-51	5.8	66
162	Fluorescence ratiometric zinc sensors based on controlled energy transfer. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17100		23
161	Regioselectivity of aliphatic versus aromatic hydroxylation by a nonheme iron(II)-superoxo complex. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2518-24	3.6	9
160	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
159	Double action: toward phosphorescence ratiometric sensing of chromium ion. <i>Advanced Materials</i> , 2012 , 24, 2748-54	24	50
158	Correlating DFT-calculated energy barriers to experiments in nonheme octahedral Fe(IV)O species. <i>Chemistry - A European Journal</i> , 2012 , 18, 10444-53	4.8	20
157	Fluorescent zinc sensor with minimized proton-induced interferences: photophysical mechanism for fluorescence turn-on response and detection of endogenous free zinc ions. <i>Inorganic Chemistry</i> , 2012 , 51, 8760-74	5.1	109
156	Structure and reactivity of a mononuclear non-haem iron(III)-peroxo complex. <i>Nature</i> , 2011 , 478, 502-5	50.4	262
155	A mononuclear nonheme iron(IV)-oxo complex which is more reactive than cytochrome P450 model compound I. <i>Chemical Science</i> , 2011 , 2, 1039	9.4	156
154	XAS and DFT investigation of mononuclear cobalt(III) peroxo complexes: electronic control of the geometric structure in CoO ₂ versus NiO ₂ systems. <i>Inorganic Chemistry</i> , 2011 , 50, 614-20	5.1	44
153	Chromium(V)-oxo and chromium(III)-superoxo complexes bearing a macrocyclic TMC ligand in hydrogen atom abstraction reactions. <i>Chemical Science</i> , 2011 , 2, 2057	9.4	56
152	Phosphorescent sensor for biological mobile zinc. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18328-42	16.4	194
151	Manganese substituted Compound I of cytochrome P450 biomimetics: a comparative reactivity study of Mn(V)-oxo versus Mn(IV)-oxo species. <i>Archives of Biochemistry and Biophysics</i> , 2011 , 507, 4-13	4.1	33
150	A highly reactive mononuclear non-heme manganese(IV)-oxo complex that can activate the strong C-H bonds of alkanes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 20088-91	16.4	177

149	Isolation and structural characterization of the elusive 1:1 adduct of hydrazine and carbon dioxide. <i>Chemical Communications</i> , 2011 , 47, 11219-21	5.8	27
148	Highly efficient photocatalytic oxygenation reactions using water as an oxygen source. <i>Nature Chemistry</i> , 2011 , 3, 38-41	17.6	114
147	The axial ligand effect on aliphatic and aromatic hydroxylation by non-heme iron(IV)-oxo biomimetic complexes. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 493-504	4.5	40
146	Spectroscopic and computational characterization of CuII-OOR (R = H or cumyl) complexes bearing a Me6-tren ligand. <i>Dalton Transactions</i> , 2011 , 40, 2234-41	4.3	34
145	Oxidative properties of a nonheme Ni(II)(O2) complex: Reactivity patterns for C-H activation, aromatic hydroxylation and heteroatom oxidation. <i>Chemical Communications</i> , 2011 , 47, 10674-6	5.8	22
144	Metal ion-coupled electron transfer of a nonheme oxoiron(IV) complex: remarkable enhancement of electron-transfer rates by Sc3+. <i>Journal of the American Chemical Society</i> , 2011 , 133, 403-5	16.4	151
143	Synthesis of azines in solid state: reactivity of solid hydrazine with aldehydes and ketones. <i>Organic Letters</i> , 2011 , 13, 6386-9	6.2	26
142	Ligand topology effect on the reactivity of a mononuclear nonheme iron(IV)-oxo complex in oxygenation reactions. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11876-9	16.4	85
141	Photocatalytic generation of a non-heme oxoiron(IV) complex with water as an oxygen source. <i>Journal of the American Chemical Society</i> , 2011 , 133, 3249-51	16.4	69
140	Phosphorescent sensor for robust quantification of copper(II) ion. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11488-91	16.4	213
139	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
138	Scandium ion-enhanced oxidative dimerization and N-demethylation of N,N-dimethylanilines by a non-heme iron(IV)-oxo complex. <i>Inorganic Chemistry</i> , 2011 , 50, 11612-22	5.1	71
137	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
136	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
135	High-Valent Iron-Oxo Porphyrins in Oxygenation Reactions. <i>Handbook of Porphyrin Science</i> , 2010 , 85-139	0.3	12
134	Theoretical predictions of a highly reactive non-heme Fe(IV)=O complex with a high-spin ground state. <i>Chemical Communications</i> , 2010 , 46, 4511-3	5.8	23
133	An "end-on" chromium(III)-superoxo complex: crystallographic and spectroscopic characterization and reactivity in C-H bond activation of hydrocarbons. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5958-9	16.4	105
132	Sulfur versus iron oxidation in an iron-thiolate model complex. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17118-29	16.4	54

131	Reversible O-O bond cleavage and formation between Mn(IV)-peroxo and Mn(V)-oxo corroles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14030-2	16.4	74
130	Manganese displacement from Zinpyr-1 allows zinc detection by fluorescence microscopy and magnetic resonance imaging. <i>Chemical Communications</i> , 2010 , 46, 4139-41	5.8	64
129	Manganese(V)-oxo corroles in hydride-transfer reactions. <i>Chemical Communications</i> , 2010 , 46, 8160-2	5.8	24
128	Synthesis, structural, and spectroscopic characterization and reactivities of mononuclear cobalt(III)-peroxo complexes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16977-86	16.4	110
127	Contrasting effects of axial ligands on electron-transfer versus proton-coupled electron-transfer reactions of nonheme oxoiron(IV) complexes. <i>Chemistry - A European Journal</i> , 2010 , 16, 354-61	4.8	39
126	Ein biomimetisches Hydroperoxo-Eisen(III)-Porphyrin-Intermediat. <i>Angewandte Chemie</i> , 2010 , 122, 2143-2146	16.4	11
125	Water as an Oxygen Source: Synthesis, Characterization, and Reactivity Studies of a Mononuclear Nonheme Manganese(IV) Oxo Complex. <i>Angewandte Chemie</i> , 2010 , 122, 8366-8370	3.6	26
124	A biomimetic ferric hydroperoxo porphyrin intermediate. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 2099-101	16.4	58
123	Water as an oxygen source: synthesis, characterization, and reactivity studies of a mononuclear nonheme manganese(IV) oxo complex. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8190-4	16.4	79
122	Synthesis and crystal structure of nickel(II) complexes with bis(5-methyl-2-thiophenemethyl)(2-pyridylmethyl)amine. <i>Polyhedron</i> , 2010 , 29, 446-450	2.7	3
121	Reactive Intermediates in Oxygenation Reactions with Mononuclear Nonheme Iron Catalysts. <i>Angewandte Chemie</i> , 2009 , 121, 1283-1286	3.6	27
120	Water as an Oxygen Source in the Generation of Mononuclear Nonheme Iron(IV) Oxo Complexes. <i>Angewandte Chemie</i> , 2009 , 121, 1835-1838	3.6	33
119	Structural Characterization and Remarkable Axial Ligand Effect on the Nucleophilic Reactivity of a Nonheme Manganese(III) Peroxo Complex. <i>Angewandte Chemie</i> , 2009 , 121, 4214-4217	3.6	28
118	How does the axial ligand of cytochrome P450 biomimetics influence the regioselectivity of aliphatic versus aromatic hydroxylation?. <i>Chemistry - A European Journal</i> , 2009 , 15, 5577-87	4.8	75
117	Enhanced reactivities of iron(IV)-oxo porphyrin pi-cation radicals in oxygenation reactions by electron-donating axial ligands. <i>Chemistry - A European Journal</i> , 2009 , 15, 10039-46	4.8	98
116	Hydrogen-atom abstraction reactions by manganese(V)- and manganese(IV)-oxo porphyrin complexes in aqueous solution. <i>Chemistry - A European Journal</i> , 2009 , 15, 11482-9	4.8	89
115	Reactive intermediates in oxygenation reactions with mononuclear nonheme iron catalysts. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1257-60	16.4	103
114	Water as an oxygen source in the generation of mononuclear nonheme iron(IV) oxo complexes. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 1803-6	16.4	92

113	Structural characterization and remarkable axial ligand effect on the nucleophilic reactivity of a nonheme manganese(III)-peroxo complex. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4150-3	16.4	101
112	Geometric and electronic structure and reactivity of a mononuclear "side-on" nickel(III)-peroxo complex. <i>Nature Chemistry</i> , 2009 , 1, 568-72	17.6	138
111	An iron(II) complex with a N3S2 thioether ligand in the generation of an iron(IV)-oxo complex and its reactivity in olefin epoxidation. <i>Inorganica Chimica Acta</i> , 2009 , 362, 1031-1034	2.7	26
110	Effect of porphyrin ligands on the regioselective dehydrogenation versus epoxidation of olefins by oxoiron(IV) mimics of cytochrome P450. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 11713-22	2.8	66
109	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
108	Fundamental differences of substrate hydroxylation by high-valent iron(IV)-oxo models of cytochrome P450. <i>Inorganic Chemistry</i> , 2009 , 48, 6661-9	5.1	35
107	Activation of hydrocarbon C-H bonds by iodosylbenzene: how does it compare with iron(IV)-oxo oxidants?. <i>Chemical Communications</i> , 2009 , 1562-4	5.8	25
106	Mechanistic insights into hydride-transfer and electron-transfer reactions by a manganese(IV)-oxo porphyrin complex. <i>Journal of the American Chemical Society</i> , 2009 , 131, 17127-34	16.4	61
105	High-valent manganese(v)-oxo porphyrin complexes in hydride transfer reactions. <i>Chemical Communications</i> , 2009 , 704-6	5.8	40
104	Direct evidence for an iron(IV)-oxo porphyrin pi-cation radical as an active oxidant in catalytic oxygenation reactions. <i>Chemical Communications</i> , 2008 , 1076-8	5.8	43
103	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
102	The effect and influence of cis-ligands on the electronic and oxidizing properties of nonheme oxoiron biomimetics. A density functional study. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 12887-95	2.8	18
101	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> , 2008 , 130, 15134-42	16.4	78
100	Axial ligand effects on the geometric and electronic structures of nonheme oxoiron(IV) complexes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12394-407	16.4	160
99	Combined experimental and theoretical approach to understand the reactivity of a mononuclear Cu(II)-hydroperoxo complex in oxygenation reactions. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 13102-8	2.8	23
98	A two-state reactivity rationale for counterintuitive axial ligand effects on the C-H activation reactivity of nonheme Fe(IV)=O oxidants. <i>Chemistry - A European Journal</i> , 2008 , 14, 1740-56	4.8	181
97	Theoretical Investigation on the Mechanism of Oxygen Atom Transfer between Two Non-Heme Iron Centres. <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 1027-1030	2.3	7
96	Experiment and theory reveal the fundamental difference between two-state and single-state reactivity patterns in nonheme Fe(IV)=O versus Ru(IV)=O oxidants. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3356-9	16.4	69

95	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
94	Experiment and Theory Reveal the Fundamental Difference between Two-State and Single-State Reactivity Patterns in Nonheme FeIV=O versus RuIV=O Oxidants. <i>Angewandte Chemie</i> , 2008 , 120, 3404-3407	3.6	10
93	Hydrogen Atom Abstraction and Hydride Transfer Reactions by Iron(IV)-Oxo Porphyrins. <i>Angewandte Chemie</i> , 2008 , 120, 7431-7434	3.6	22
92	Intercalation of bulky Delta,Delta- and Lambda,Lambda-bis-Ru(II) complex between DNA base pairs. <i>Journal of Inorganic Biochemistry</i> , 2008 , 102, 1885-91	4.2	14
91	Reactivity of a cobalt(III)-peroxo complex in oxidative nucleophilic reactions. <i>Journal of Inorganic Biochemistry</i> , 2008 , 102, 2155-9	4.2	44
90	Oxidation of hydroquinones by a nonheme iron(IV)-oxo species. <i>Inorganica Chimica Acta</i> , 2008 , 361, 2557-2561	2.1	21
89	A highly efficient non-heme manganese complex in oxygenation reactions. <i>Chemical Communications</i> , 2007 , 4623-5	5.8	91
88	Bioinspired chemical inversion of L-amino acids to D-amino acids. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1518-9	16.4	82
87	Mechanistic insight into the aromatic hydroxylation by high-valent iron(IV)-oxo porphyrin pi-cation radical complexes. <i>Journal of Organic Chemistry</i> , 2007 , 72, 6301-4	4.2	59
86	Oxidative N-dealkylation reactions by oxoiron(IV) complexes of nonheme and heme ligands. <i>Inorganic Chemistry</i> , 2007 , 46, 293-8	5.1	90
85	High-valent iron(IV)-oxo complexes of heme and non-heme ligands in oxygenation reactions. <i>Accounts of Chemical Research</i> , 2007 , 40, 522-31	24.3	938
84	[Mn(tmc)(O2)]+: a side-on peroxido manganese(III) complex bearing a non-heme ligand. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 377-80	16.4	118
83	Experimental and theoretical evidence for nonheme iron(III) alkylperoxo species as sluggish oxidants in oxygenation reactions. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 2291-4	16.4	62
82	[Mn(tmc)(O2)]+: A Side-On Peroxido Manganese(III) Complex Bearing a Non-Heme Ligand. <i>Angewandte Chemie</i> , 2007 , 119, 381-384	3.6	26
81	Experimental and Theoretical Evidence for Nonheme Iron(III) Alkylperoxo Species as Sluggish Oxidants in Oxygenation Reactions. <i>Angewandte Chemie</i> , 2007 , 119, 2341-2344	3.6	26
80	A chiral ketone for enantioselective recognition of 1,2-amino alcohols. <i>Tetrahedron Letters</i> , 2007 , 48, 6582-6585	2	14
79	Axial ligand tuning of a nonheme iron(IV)-oxo unit for hydrogen atom abstraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19181-6	11.5	344
78	Combined experimental and theoretical study on aromatic hydroxylation by mononuclear nonheme iron(IV)-oxo complexes. <i>Inorganic Chemistry</i> , 2007 , 46, 4632-41	5.1	161

77	Synthesis, characterization, and reactivities of manganese(V)-oxo porphyrin complexes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1268-77	16.4	213
76	Nonheme iron(II) complexes of macrocyclic ligands in the generation of oxoiron(IV) complexes and the catalytic epoxidation of olefins. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 627-33	4.2	62
75	Flexibility of inorganic tennis ball structures inducing anion selectivity. <i>Chemistry - A European Journal</i> , 2006 , 12, 7078-83	4.8	7
74	Oxygen-atom transfer between mononuclear nonheme iron(IV)-oxo and iron(II) complexes. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 3992-5	16.4	59
73	Oxygen-Atom Transfer between Mononuclear Nonheme Iron(IV)Oxo and Iron(II) Complexes. <i>Angewandte Chemie</i> , 2006 , 118, 4096-4099	3.6	16
72	Nonheme oxoiron(IV) complexes of tris(2-pyridylmethyl)amine with cis-monoanionic ligands. <i>Inorganic Chemistry</i> , 2006 , 45, 6435-45	5.1	96
71	Reactivities of mononuclear non-heme iron intermediates including evidence that iron(III)-hydroperoxo species is a sluggish oxidant. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2630-4	16.4	211
70	Identification of an "end-on" nickel-superoxo adduct, [Ni(tmc)(O ₂) ⁺]. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14230-1	16.4	107
69	How axial ligands control the reactivity of high-valent iron(IV)-oxo porphyrin pi-cation radicals in alkane hydroxylation: a computational study. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 751-4	4.2	38
68	Mechanistic insights into the reversible formation of iodosylarene-iron porphyrin complexes in the reactions of oxoiron(IV) porphyrin pi-cation radicals and iodoarenes: equilibrium, epoxidizing intermediate, and oxygen exchange. <i>Chemistry - A European Journal</i> , 2005 , 12, 130-7	4.8	41
67	A highly selective fluorescent chemosensor for Pb ²⁺ . <i>Journal of the American Chemical Society</i> , 2005 , 127, 10107-11	16.4	580
66	Iron porphyrins anchored to a thermosensitive polymeric core-shell nanosphere as a thermotropic catalyst. <i>Chemical Communications</i> , 2005 , 2960-2	5.8	9
65	Tuning the intermolecular dative interactions by altering the ligand planarity and counter cations in vanadyl(IV) complexes. <i>Dalton Transactions</i> , 2005 , 1567-9	4.3	1
64	Formation, stability, and reactivity of a mononuclear nonheme oxoiron(IV) complex in aqueous solution. <i>Chemical Communications</i> , 2005 , 1405-7	5.8	96
63	Enantioselective recognition of 1,2-amino alcohols by reversible formation of imines with resonance-assisted hydrogen bonds. <i>Organic Letters</i> , 2005 , 7, 3525-7	6.2	48
62	Dioxygen activation and catalytic aerobic oxidation by a mononuclear nonheme iron(II) complex. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4178-9	16.4	131
61	Axial ligand substituted nonheme Fe ^{IV} =O complexes: observation of near-UV LMCT bands and Fe=O Raman vibrations. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12494-5	16.4	144
60	A thiolate-ligated nonheme oxoiron(IV) complex relevant to cytochrome P450. <i>Science</i> , 2005 , 310, 1000-3	33.3	228

59	Self-hydroxylation of perbenzoic acids at a nonheme iron(II) center. <i>Chemical Communications</i> , 2005 , 5644-6	5.8	56
58	Mononuclear nonheme ferric-peroxo complex in aldehyde deformylation. <i>Chemical Communications</i> , 2005 , 4529-31	5.8	79
57	Accelerated cerebral ischemic injury by activated macrophages/microglia after lipopolysaccharide microinjection into rat corpus callosum. <i>Glia</i> , 2005 , 50, 168-81	9	53
56	Mechanistic insight into alcohol oxidation by high-valent iron-oxo complexes of heme and nonheme ligands. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4235-9	16.4	144
55	Mechanistic Insight into Alcohol Oxidation by High-Valent Iron-Oxo Complexes of Heme and Nonheme Ligands. <i>Angewandte Chemie</i> , 2005 , 117, 4307-4311	3.6	56
54	Parallel mechanistic studies on the counterion effect of manganese salen and porphyrin complexes on olefin epoxidation by iodosylarenes. <i>Journal of Inorganic Biochemistry</i> , 2005 , 99, 424-31	4.2	37
53	Oxoiron(IV) porphyrin pi-cation radical complexes with a chameleon behavior in cytochrome P450 model reactions. <i>Journal of Biological Inorganic Chemistry</i> , 2005 , 10, 294-304	3.7	140
52	Oxidizing intermediates in cytochrome P450 model reactions. <i>Journal of Biological Inorganic Chemistry</i> , 2004 , 9, 654-60	3.7	110
51	Direct evidence for oxygen-atom exchange between nonheme oxoiron(IV) complexes and isotopically labeled water. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2417-20	16.4	93
50	Direct Evidence for Oxygen-Atom Exchange between Nonheme Oxoiron(IV) Complexes and Isotopically Labeled Water. <i>Angewandte Chemie</i> , 2004 , 116, 2471-2474	3.6	29
49	Alkyne oxidation by nonheme iron catalysts and hydroperoxides. <i>Inorganic Chemistry Communication</i> , 2004 , 7, 534-537	3.1	17
48	Novel platinum complexes having chirality and free tertiary amine groups for multiple interactions with DNA. <i>Inorganic Chemistry Communication</i> , 2004 , 7, 1178-1180	3.1	3
47	Structural insights into nonheme alkylperoxoiron(III) and oxoiron(IV) intermediates by X-ray absorption spectroscopy. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16750-61	16.4	137
46	Nonheme FeIVO complexes that can oxidize the C-H bonds of cyclohexane at room temperature. <i>Journal of the American Chemical Society</i> , 2004 , 126, 472-3	16.4	534
45	An FeIV=O complex of a tetradentate tripodal nonheme ligand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 3665-70	11.5	299
44	Reversible Formation of Iodosylbenzene-Iron Porphyrin Intermediates in the Reaction of Oxoiron(IV) Porphyrin Pi-Cation Radicals and Iodobenzene. <i>Angewandte Chemie</i> , 2003 , 115, 113-115	3.6	19
43	Reversible formation of iodosylbenzene-iron porphyrin intermediates in the reaction of oxoiron(IV) porphyrin pi-cation radicals and iodobenzene. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 109-111	16.4	79
42	Iodobenzene diacetate as an efficient terminal oxidant in iron(III) porphyrin complex-catalyzed oxygenation reactions. <i>Inorganica Chimica Acta</i> , 2003 , 343, 373-376	2.7	56

41	Conversion of olefins into trans-diols or trans-diol mono-ethers by using iron porphyrin(III) complex and H ₂ O ₂ . <i>Inorganic Chemistry Communication</i> , 2003 , 6, 1148-1151	3.1	10
40	Crystallographic and spectroscopic characterization of a nonheme Fe(IV)-O complex. <i>Science</i> , 2003 , 299, 1037-9	33.3	775
39	First direct evidence for stereospecific olefin epoxidation and alkane hydroxylation by an oxoiron(IV) porphyrin complex. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14674-5	16.4	133
38	A highly active zinc catalyst for the controlled polymerization of lactide. <i>Journal of the American Chemical Society</i> , 2003 , 125, 11350-9	16.4	539
37	Blockade of peroxynitrite-mediated astrocyte death by manganese(III)-cyclam. <i>Neuroscience Research</i> , 2003 , 45, 157-61	2.9	3
36	Factors affecting the catalytic epoxidation of olefins by iron porphyrin complexes and H ₂ O ₂ in protic solvents. <i>Journal of Organic Chemistry</i> , 2003 , 68, 7903-6	4.2	71
35	Isolation of an oxomanganese(V) porphyrin intermediate in the reaction of a manganese(III) porphyrin complex and H ₂ O ₂ in aqueous solution. <i>Chemistry - A European Journal</i> , 2002 , 8, 2067-71	4.8	124
34	Stereoselective alkane hydroxylations by metal salts and m-chloroperbenzoic acid. <i>Tetrahedron Letters</i> , 2002 , 43, 5487-5490	2	46
33	Synthesis and reactivity of rhenium cluster-supported manganese porphyrin complexes. <i>Inorganic Chemistry Communication</i> , 2002 , 5, 612-615	3.1	35
32	Anionic ligand effect on the nature of epoxidizing intermediates in iron porphyrin complex-catalyzed epoxidation reactions. <i>Inorganic Chemistry</i> , 2002 , 41, 3647-52	5.1	114
31	High conversion of olefins to cis-diols by non-heme iron catalysts and H ₂ O ₂ . <i>Chemical Communications</i> , 2002 , 1288-9	5.8	72
30	A ferric-cyanide-bridged one-dimensional dirhodium complex with (18-crown-6)potassium cations. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2001 , 57, 266-8		4
29	Methoxy[meso-5,10,15,20-tetrakis-(2,6-difluorophenyl)porphyrinato]-iron(III), [Fe(TDFPP)(OCH ₃)]. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2001 , 57, 556-7		2
28	Zinc tetrakis(N-methyl-4pyridyl) porphyrinato is an effective inhibitor of stimulant-induced activation of RAW 264.7 cells. <i>Toxicology and Applied Pharmacology</i> , 2001 , 172, 140-9	4.6	3
27	Augmented death in immunostimulated astrocytes deprived of glucose: inhibition by an iron porphyrin FeTMPyP. <i>Journal of Neuroimmunology</i> , 2001 , 112, 55-62	3.5	16
26	Biomimetic alkane hydroxylation by cobalt(III) porphyrin complex and m-chloroperbenzoic acid. <i>Chemical Communications</i> , 2001 , 1262-1263	5.8	51
25	Crystal structure of the two-dimensional framework [Mn(salen)] ₄ n[Re ₆ Te ₈ (CN) ₆] _n [salen = N,N'-ethylenebis(salicylideneaminato)]. <i>Chemical Communications</i> , 2001 , 1470-1471	5.8	76
24	Remarkable Anionic Axial Ligand Effects of Iron(III) Porphyrin Complexes on the Catalytic Oxygenations of Hydrocarbons by H ₂ O ₂ and the Formation of Oxoiron(IV) Porphyrin Intermediates by m-Chloroperoxybenzoic Acid. <i>Angewandte Chemie</i> , 2000 , 112, 3792-3795	3.6	16

23	Remarkable Anionic Axial Ligand Effects of Iron(III) Porphyrin Complexes on the Catalytic Oxygenations of Hydrocarbons by H ₂ O ₂ and the Formation of Oxoiron(IV) Porphyrin Intermediates by m-Chloroperoxybenzoic Acid This work was supported by Center for Cell Signaling Research (1999-2-122-002-4), the Korean Research Foundation (KRF-99-042-D00068), and	16.4	91
22	Protection by a manganese porphyrin of endogenous peroxynitrite-induced death of glial cells via inhibition of mitochondrial transmembrane potential decrease. <i>Glia</i> , 2000 , 31, 155-64	9	33
21	First success of catalytic epoxidation of olefins by an electron-rich iron(III) porphyrin complex and H ₂ O ₂ : imidazole effect on the activation of H ₂ O ₂ by iron porphyrin complexes in aprotic solvent. <i>Journal of Inorganic Biochemistry</i> , 2000 , 80, 219-25	4.2	86
20	Temperature effect on the epoxidation of olefins by an iron(III) porphyrin complex and tert-alkyl hydroperoxides. <i>Chemical Communications</i> , 2000 , 1787-1788	5.8	5
19	Effect of anionic axial ligands on the formation of oxoiron(IV) porphyrin intermediates. <i>Inorganic Chemistry</i> , 2000 , 39, 5572-5	5.1	68
18	Evidence for the Participation of Two Distinct Reactive Intermediates in Iron(III) Porphyrin Complex-Catalyzed Epoxidation Reactions. <i>Journal of the American Chemical Society</i> , 2000 , 122, 6641-6647	16.4	140
17	Participation of Two Distinct Hydroxylating Intermediates in Iron(III) Porphyrin Complex-Catalyzed Hydroxylation of Alkanes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10805-10809	16.4	91
16	New Insights into the Mechanisms of O-O Bond Cleavage of Hydrogen Peroxide and tert-Alkyl Hydroperoxides by Iron(III) Porphyrin Complexes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 8677-8684	16.4	211
15	Biomimetic Alkane Hydroxylations by an Iron(III) Porphyrin Complex with H ₂ O ₂ and by a High-Valent Iron(IV) Oxo Porphyrin Cation Radical Complex. <i>Inorganic Chemistry</i> , 1999 , 38, 3238-3240	5.1	64
14	Significant Electronic Effect of Porphyrin Ligand on the Reactivities of High-Valent Iron(IV) Oxo Porphyrin Cation Radical Complexes. <i>Inorganic Chemistry</i> , 1999 , 38, 914-920	5.1	121
13	Use of 2-methyl-1-phenylpropan-2-yl hydroperoxide (MPPH) as a mechanistic probe for the heterolytic versus homolytic O-O bond cleavage of tert-alkyl hydroperoxide by iron(III) porphyrin complex. <i>Chemical Communications</i> , 1999 , 387-388	5.8	51
12	Hydroxylation of Aliphatic Hydrocarbons with m-Chloroperoxybenzoic Acid Catalyzed by Electron-Deficient Iron(III) Porphyrin Complexes. <i>Bulletin of the Chemical Society of Japan</i> , 1999 , 72, 707-713	5.1	23
11	Base specific complex formation of norfloxacin with DNA. <i>Biophysical Chemistry</i> , 1998 , 74, 225-36	3.5	45
10	Water-Soluble Iron Porphyrin Complex-Catalyzed Epoxidation of Olefins with Hydrogen Peroxide and tert-Butyl Hydroperoxide in Aqueous Solution. <i>Inorganic Chemistry</i> , 1998 , 37, 606-607	5.1	69
9	Epoxidation of Olefins with H ₂ O ₂ Catalyzed by an Electronegatively-Substituted Iron Porphyrin Complex in Aprotic Solvent. <i>Chemistry Letters</i> , 1998 , 27, 837-838	1.7	12
8	Determination of Reactive Intermediates in Iron Porphyrin Complex-Catalyzed Oxygenations of Hydrocarbons Using Isotopically Labeled Water: Mechanistic Insights. <i>Journal of the American Chemical Society</i> , 1997 , 119, 1916-1922	16.4	109
7	Nickel Complexes as Antioxidants. Inhibition of Aldehyde Autoxidation by Nickel(II) Tetraazamacrocycles. <i>Inorganic Chemistry</i> , 1996 , 35, 6632-6633	5.1	37
6	Metal Complex-Catalyzed Epoxidation of Olefins by Dioxygen with Co-Oxidation of Aldehydes. A Mechanistic Study. <i>Inorganic Chemistry</i> , 1996 , 35, 1045-1049	5.1	170

5	Reevaluation of the significance of oxygen-18 incorporation in metal complex-catalyzed oxygenation reactions carried out in the presence of oxygen-18-labeled water (H ₂ ¹⁸ O). <i>Journal of the American Chemical Society</i> , 1993 , 115, 1772-1778	16.4	124
4	Iron-cyclam complexes as catalysts for the epoxidation of olefins by 30% aqueous hydrogen peroxide in acetonitrile and methanol. <i>Journal of the American Chemical Society</i> , 1991 , 113, 7052-7054	16.4	183
3	Zinc(II) complexes and aluminum(III) porphyrin complexes catalyze the epoxidation of olefins by iodosylbenzene. <i>Journal of the American Chemical Society</i> , 1990 , 112, 4977-4979	16.4	74
2	Long- and short-range NMR coupling parameters in closo-2,4-C ₂ B ₅ H ₇ and a number of its derivatives. <i>Journal of Magnetic Resonance</i> , 1984 , 59, 399-405		1
1	Nonheme Iron-Catalyzed Enantioselective cis -Dihydroxylation of Aliphatic Acrylates as Mimics of Rieske Dioxygenases. <i>CCS Chemistry</i> , 1-13	7.2	1