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551	Metalloporphyrins as biomimetic models for cytochrome p-450 in the oxidation of atrazine. 2006 , 54, 10011-8		15
550	Proton-shuffle mechanism of O-O activation for formation of a high-valent oxo-iron species of bleomycin. <i>Journal of the American Chemical Society</i> , 2006 , 128, 16148-58	16.4	41
549	New approach to the activation of anti-cancer pro-drugs by metalloporphyrin-based cytochrome P450 mimics in all-aqueous biologically relevant system. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 1897-902	4.2	33
548	Transition metal spin state energetics and noninnocent systems: challenges for DFT in the bioinorganic arena. 2006 , 11, 712-24		162
547	On the identity and reactivity patterns of the "second oxidant" of the T252A mutant of cytochrome P450cam in the oxidation of 5-methylenenylcamphor. <i>Journal of Inorganic Biochemistry</i> , 2006 , 100, 2054	1 -6 8	26
546	The diagnostic substrate bicyclohexane reveals a radical mechanism for bacterial cytochrome P450 in whole cells. 2006 , 45, 8192-4		31
545	The Diagnostic Substrate Bicyclohexane Reveals a Radical Mechanism for Bacterial Cytochrome P450 in Whole Cells. 2006 , 118, 8372-8374		5
544	Axial ligand tuning of a nonheme iron(IV)-oxo unit for hydrogen atom abstraction. 2007, 104, 19181-6		344
543	Clean and Highly Selective Oxidation of Alcohols by the PhI(OAc)2/Mn(TPP)CN/Im Catalytic System. 2007 , 2007, 252-256		14
542	Anaerobic degradation of hydrocarbons with sulphate as electron acceptor. 265-304		32
541	Ferryl haem protonation gates peroxidatic reactivity in globins. 2007, 403, 391-5		65
540	Reactivity patterns of cytochrome P450 enzymes: multifunctionality of the active species, and the two states-two oxidants conundrum. 2007 , 24, 533-52		89
539	Reaction mechanisms of 15-hydroperoxyeicosatetraenoic acid catalyzed by human prostacyclin and thromboxane synthases. 2007 , 461, 159-68		20
538	N2O activation and oxidation reactivity from a non-heme iron pyrrole platform. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15128-9	16.4	82
537	Molecular mechanism of phase I and phase II drug-metabolizing enzymes: implications for detoxification. 2007 , 260, 35-112		143
536	Kinetics and mechanism of the oxidation of water soluble porphyrin FeIIITPPS with hydrogen peroxide and the peroxomonosulfate ion. <i>Dalton Transactions</i> , 2007 , 4268-75	4.3	30
535	Exotic biomodification of fatty acids. 2007 , 24, 1110-27		34

(2007-2007)

534	porphyrinoid chemistry in hemoprotein matrix: detection and reactivities of iron(IV)-oxo species of porphycene incorporated into horseradish peroxidase. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12906-7	16.4	59	
533	Radical intermediates in monooxygenase reactions of rieske dioxygenases. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3514-5	16.4	99	
532	Regioselective oxyfunctionalization of unactivated carbons in steroids by a model of cytochrome P-450: osmiumporphyrin complex/tert-butyl hydroperoxide system. 2007 , 72, 823-30		28	
531	Bonding in Low-Coordinate Environments: Electronic Structure of Pseudotetrahedral Iron-Imido Complexes. 2007 , 3, 448-57		35	
530	Reactivity of high-valent iron-oxo species in enzymes and synthetic reagents: a tale of many states. 2007 , 40, 532-42		454	
529	Chemical and spectroscopic evidence for an FeV-oxo complex. 2007 , 315, 835-8		394	
528	Hydrogen peroxide dependent cis-dihydroxylation of benzoate by fully oxidized benzoate 1,2-dioxygenase. 2007 , 46, 8004-16		79	
527	Regioselective arene hydroxylation mediated by a (mu-peroxo)diiron(III) complex: a functional model for toluene monooxygenase. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2-3	16.4	51	
526	Desaturase reactions complicate the use of norcarane as a mechanistic probe. Unraveling the mixture of twenty-plus products formed in enzyme-catalyzed oxidations of norcarane. 2007 , 72, 1121-7		12	
525	Oxidative properties of FeO2+: electronic structure and solvation effects. 2007 , 9, 156-66		57	
524	Insights into porphyrin chemistry provided by the microperoxidases, the haempeptides derived from cytochrome c. <i>Dalton Transactions</i> , 2007 , 4371-85	4.3	86	
523	High-valent iron(IV)-oxo complexes of heme and non-heme ligands in oxygenation reactions. 2007 , 40, 522-31		938	
522	The Role of Equatorial and Axial Ligands in Promoting the Activity of Non-Heme Oxidoiron(IV) Catalysts in Alkane Hydroxylation. 2007 , 2007, 3023-3033		97	
521	A Density Functional Study of the Factors That Influence the Regioselectivity of Toluene Hydroxylation by Cytochrome P450 Enzymes. 2007 , 2007, 2966-2974		27	
520	Formation of iron(VI) in ozonalysis of iron(III) in alkaline solution. 2007, 360, 2789-2791		35	
519	X-ray crystallographic structure and physical properties of the pentacoordinated [TPAFeCl]+ complex. 2007 , 26, 4003-4008		13	
518	Modeling the haloperoxidases: reversible oxygen atom transfer between bromide ion and an oxo-Mn(V) porphyrin. <i>Journal of Inorganic Biochemistry</i> , 2007 , 101, 1786-97	4.2	43	
517	Efficient use of the iron ortho-nitrophenylporphyrin chloride to mimic biological oxidations of dimethylaminoantipyrine. 2007 , 70, 354-9		8	

516	Alkane hydroxylases involved in microbial alkane degradation. 2007 , 74, 13-21		421
515	Enzymatic hydroxylation of aromatic compounds. 2007 , 64, 271-93		251
514	QM/MM theoretical study of the pentacoordinate Mn(III) and resting states of manganese-reconstituted cytochrome P450(cam). 2008 , 13, 521-30		10
513	Replacement of tyrosine residues by phenylalanine in cytochrome P450cam alters the formation of Cpd II-like species in reactions with artificial oxidants. 2008 , 13, 599-611		26
512	Long-range charge transport through double-stranded DNA mediated by manganese or iron porphyrins. 2008 , 13, 973-9		11
511	Evolutionary ecology and multidisciplinary approaches to prospecting for monooxygenases as biocatalysts. 2008 , 94, 75-84		25
510	Biomimetic iron-catalyzed asymmetric epoxidation of aromatic alkenes by using hydrogen peroxide. 2008 , 14, 7687-98		119
509	A dinuclear iron complex based on parallel malonate binding sites: cooperative activation of dioxygen and biomimetic ligand oxidation. 2008 , 14, 9377-88		22
508	The electronic structure of iron corroles: a combined experimental and quantum chemical study. 2008 , 14, 10839-51		105
507	The EDTA Complex of Oxidoiron(IV) as Realisation of an Optimal Ligand Environment for High Activity of FeO2+. 2008 , 2008, 1672-1681		57
506	The groves-spiro dioxomanganese(v) story. 2008 , 47, 2737-9		24
505	An iron nitride complex. 2008 , 47, 2681-4		201
504	Cage escape competes with geminate recombination during alkane hydroxylation by the diiron oxygenase AlkB. 2008 , 47, 5232-4		31
503	Dioxomangan(V)-Komplexe nach Groves und Spiro. 2008 , 120, 2777-2779		4
502	An Iron Nitride Complex. 2008 , 120, 2721-2724		61
501	Cage Escape Competes with Geminate Recombination during Alkane Hydroxylation by the Diiron Oxygenase AlkB. 2008 , 120, 5310-5312		3
500	Spectral, electrochemical, and catalytic properties of a homologous series of manganese porphyrins as cytochrome P450 model: the effect of the degree of beta-bromination. <i>Journal of Inorganic Biochemistry</i> , 2008 , 102, 1932-41	4.2	52
499	Micellar histidinate hematin complex as an artificial peroxidase enzyme model: Voltammetric and spectroscopic investigations. 2008 , 320, 213-221		31

(2008-2008)

498	Carbamazepine oxidation catalyzed by iron and manganese porphyrins supported on aminofunctionalized matrices. 2008 , 133-135, 863-869		20
497	Ironporphyrin immobilized onto montmorillonite as a biomimetical model for azo dye oxidation. 2008 , 61, 337-344		30
496	Reactivity of ferrate(V) with aminopolycarboxylates in alkaline medium: A premix pulse radiolysis. 2008 , 361, 1041-1046		16
495	Oxidation of adamantane catalysed by imidazolylporphyrinatoiron(III) complexes and structural studies of 5-coordinating iron(III) porphyrin. 2008 , 283, 129-139		9
494	Oxidation of adamantane with O2 catalysed by VO(acac)2 and reactivity of active species in acetic acid. 2008 , 294, 37-42		10
493	Higher Oxidation States of Iron in Solid State: Synthesis and Their M\(\mathbb{B}\)sbauer Characterization. 2008 , 112-123		25
492	Mechanistic implications of the active species involved in the oxidation of hydrocarbons by iron complexes of pyrazine-2-carboxylic acid. <i>Dalton Transactions</i> , 2008 , 2026-33	↓ .3	31
491	How do azoles inhibit cytochrome P450 enzymes? A density functional study. 2008 , 112, 12911-8		62
490	[The binuclear iron site of the membrane-bound methane hydroxylase from Methylococcus capsulatus (strain M)]. 2008 , 34, 194-203		8
489	Carbon-heteroatom bond formation catalysed by organometallic complexes. 2008 , 455, 314-22		773
489 488	Carbon-heteroatom bond formation catalysed by organometallic complexes. 2008 , 455, 314-22 Dynamics of the enzymatic oxidation of methane. 2008 , 49, 59-67		773
			773
488	Dynamics of the enzymatic oxidation of methane. 2008 , 49, 59-67		773 1 474
488	Dynamics of the enzymatic oxidation of methane. 2008 , 49, 59-67 Kinetic simulation of the enzymatic oxidation of methane. 2008 , 49, 191-201		1
488 487 486	Dynamics of the enzymatic oxidation of methane. 2008, 49, 59-67 Kinetic simulation of the enzymatic oxidation of methane. 2008, 49, 191-201 Versatility of biological non-heme Fe(II) centers in oxygen activation reactions. 2008, 4, 186-93 Catalytic oxidation of hydrocarbons by trinuclear Ebxo-bridged ruthenium-acetate clusters: Radical		1 474
488 487 486 485	Dynamics of the enzymatic oxidation of methane. 2008, 49, 59-67 Kinetic simulation of the enzymatic oxidation of methane. 2008, 49, 191-201 Versatility of biological non-heme Fe(II) centers in oxygen activation reactions. 2008, 4, 186-93 Catalytic oxidation of hydrocarbons by trinuclear Ebxo-bridged ruthenium-acetate clusters: Radical versus non-radical mechanisms. 2008, 260, 188-192 (TAML)FeIV O complex in aqueous solution: synthesis and spectroscopic and computational characterization. 2008, 47, 3669-78	6.4	1 474 20 111
488 487 486 485 484	Dynamics of the enzymatic oxidation of methane. 2008, 49, 59-67 Kinetic simulation of the enzymatic oxidation of methane. 2008, 49, 191-201 Versatility of biological non-heme Fe(II) centers in oxygen activation reactions. 2008, 4, 186-93 Catalytic oxidation of hydrocarbons by trinuclear Ebxo-bridged ruthenium-acetate clusters: Radical versus non-radical mechanisms. 2008, 260, 188-192 (TAML)FeIV O complex in aqueous solution: synthesis and spectroscopic and computational characterization. 2008, 47, 3669-78 Hydrogen peroxide: a poor ligand to gallium tetraphenylporphyrin. Journal of the American Chemical Society, 2008, 130, 1812-3 A valence bond modeling of trends in hydrogen abstraction barriers and transition states of	6.4	1 474 20 111

480	Reactivity of a Co(I) [N(2)P(2)] complex with azides: evidence for a transient Co(III) imido species. 2008 , 3648-50		28
479	Preparation, electrochemical and spectral properties of free-base and manganese N-methyl-pyridylethynyl porphyrins. <i>Dalton Transactions</i> , 2008 , 793-9	4.3	5
478	A supramolecular receptor of diatomic molecules (O2, CO, NO) in aqueous solution. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8006-15	16.4	38
477	Oxidation of methanol by FeO2+ in water: DFT calculations in the gas phase and ab initio MD simulations in water solution. 2008 , 112, 1000-12		38
476	Probing the Compound I-like reactivity of a bare high-valent oxo iron porphyrin complex: the oxidation of tertiary amines. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3208-17	16.4	81
475	Comparative quantum mechanics/molecular mechanics (QM/MM) and density functional theory calculations on the oxo-iron species of taurine/alpha-ketoglutarate dioxygenase. 2008 , 112, 2464-8		73
474	Dimanganese and diiron complexes of a binucleating cyclam ligand: four-electron, reversible oxidation chemistry at high potentials. 2008 , 47, 11669-79		20
473	A rational basis for the axial ligand effect in C-H oxidation by $[MnO(porphyrin)(X)]+(X = H2O, OH-, O2-)$ from a DFT study. 2008 , 47, 10090-9		84
472	Synthesis, characterization, and reactivity of iron trisamidoamine complexes that undergo both metal- and ligand-centered oxidative transformations. 2008 , 47, 1165-72		28
471	Iron Catalysis in Biological and Biomimetic Reactions. 29-72		4
47 ¹	Iron Catalysis in Biological and Biomimetic Reactions. 29-72 . 2008,		340
470	. 2008, Generation of ferryl species through dioxygen activation in iron/EDTA systems: a computational		340
47° 469	. 2008, Generation of ferryl species through dioxygen activation in iron/EDTA systems: a computational study. 2009, 48, 527-40 Superoxide radical protects liposome-contained cytochrome c against oxidative damage promoted		340
47° 469 468	. 2008, Generation of ferryl species through dioxygen activation in iron/EDTA systems: a computational study. 2009, 48, 527-40 Superoxide radical protects liposome-contained cytochrome c against oxidative damage promoted by peroxynitrite and free radicals. 2009, 47, 841-9 Metal-Containing Carbon Nitride Compounds: A New Functional OrganicMetal Hybrid Material.		340 28 11
47° 469 468 467	. 2008, Generation of ferryl species through dioxygen activation in iron/EDTA systems: a computational study. 2009, 48, 527-40 Superoxide radical protects liposome-contained cytochrome c against oxidative damage promoted by peroxynitrite and free radicals. 2009, 47, 841-9 Metal-Containing Carbon Nitride Compounds: A New Functional OrganicMetal Hybrid Material. 2009, 21, 1609-1612 Binuclear Iron(III) Phthalocyanine(EDxodimer)-Catalyzed Oxygenation of Aromatic Hydrocarbons		340 28 11 993
470 469 468 467 466	. 2008, Generation of ferryl species through dioxygen activation in iron/EDTA systems: a computational study. 2009, 48, 527-40 Superoxide radical protects liposome-contained cytochrome c against oxidative damage promoted by peroxynitrite and free radicals. 2009, 47, 841-9 Metal-Containing Carbon Nitride Compounds: A New Functional OrganicMetal Hybrid Material. 2009, 21, 1609-1612 Binuclear Iron(III) Phthalocyanine(EDxodimer)-Catalyzed Oxygenation of Aromatic Hydrocarbons with Iodosylbenzene Sulfate and Iodosylbenzene as the Oxidants. 2009, 351, 3168-3174		340 28 11 993 45

462	Radical and electron recycling in catalysis. 2009 , 48, 6779-87	46
461	Hydrogen Peroxide Oxygenation of Saturated and Unsaturated Hydrocarbons Catalyzed by Montmorillonite or Aluminum Oxide. 2009 , 132, 235-243	25
460	(Z)-cyclooctene epoxidation and cyclohexane oxidation on Ni/alumina-pillared clay catalysts. 2009 , 124, 218-226	9
459	Catalytic oxidative degradation of s-triazine and phenoxyalkanoic acid based herbicides with metalloporphyrins and hydrogen peroxide: Identification of two distinct reaction schemes. 2009 , 297, 35-43	29
458	Immobilization of anionic iron(III) porphyrins into ordered macroporous layered double hydroxides and investigation of catalytic activity in oxidation reactions. 2009 , 310, 42-50	55
457	A mechanistic analysis of the Rh-catalyzed intramolecular CH amination reaction. 2009, 65, 3042-3051	201
456	Mechanistic aspects of CYP74 allene oxide synthases and related cytochrome P450 enzymes. 2009 , 70, 1522-31	92
455	Lessons from nature: unraveling biological CH bond activation. 2009 , 13, 114-8	46
454	Aluminosilicate obtained by solgel process as support for an anionic iron porphyrin: Development of a selective and reusable catalyst for oxidation reactions. 2009 , 349, 162-169	33
453	Effect of porphyrin ligands on the regioselective dehydrogenation versus epoxidation of olefins by oxoiron(IV) mimics of cytochrome P450. 2009 , 113, 11713-22	66
452	Porphyrin-kaolinite as efficient catalyst for oxidation reactions. 2009 , 1, 2667-78	61
45 ¹	C-H bond cleavage with reductants: re-investigating the reactivity of monomeric Mn(III/IV)-oxo complexes and the role of oxo ligand basicity. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2762-3 ^{6.4}	147
450	What singles out the FeO2+ moiety? A density-functional theory study of the methane-to-methanol reaction catalyzed by the first row transition-metal oxide dications $MO(H2O)(p)2+$, $M = V-Cu$. 2009 , 48, 3628-38	67
449	O2 activation in a dinuclear Fe(II)/EDTA complex: spin surface crossing as a route to highly reactive Fe(IV)oxo species. 2009 , 113, 11926-37	28
448	Zn and Fe complexes containing a redox active macrocyclic biquinazoline ligand. 2009 , 48, 2944-55	29
447	Reduction of oxyiron(V) by sulfite and thiosulfate in aqueous solution. 2009 , 113, 8901-6	18
446	Reactivities of Fe(IV) complexes with oxo, hydroxo, and alkylperoxo ligands: an experimental and computational study. 2009 , 48, 11038-47	50
445	Molecular recognition in Mn-catalyzed C-H oxidation. Reaction mechanism and origin of selectivity from a DFT perspective. <i>Dalton Transactions</i> , 2009 , 5989-6000	25

444	C-H oxidation by hydroxo manganese(v) porphyrins: a DFT study. 2009, 1772-4		41
443	Evidence for an ionic intermediate in the transformation of fatty acid hydroperoxide by a catalase-related allene oxide synthase from the Cyanobacterium Acaryochloris marina. 2009 , 284, 22087-7	2209	18 ³⁵
442	A hydrogen-bond facilitated cycle for oxygen reduction by an acid- and base-compatible iron platform. 2009 , 48, 10024-35		45
441	11-Tungstophosphate with iron(II) and hydrogen peroxide efficiently detached bacterial biofilm. 2009 , 32, 1783-9		1
440	Products of thymine oxygenation by a non-heme oxygenation model, Fe(II)(MeCN)6(2+)-Ac2O-H2O2, and the transition state model between oxoiron and thymine. 2010 , 58, 775-81		1
439	Immobilization of anionic metalloporphyrins on zinc hydroxide nitrate and study of an unusual catalytic activity. 2010 , 274, 130-141		63
438	Density Functional Theory Studies of [Fe(O)2L]2+: What is the Role of the Spectator Ligand L with Different Coordination Numbers?. 2010 , 2010, 5113-5123		4
437	Mechanisms of Oxygen Binding and Activation at Transition Metal Centers. 2010 , 109-188		13
436	Transition-metal-catalyzed synthesis of hydroxylated arenes. 2010 , 16, 5274-84		157
435	New oxidation catalysts based on iron(III) porphyrins immobilized on MgAl layered double hydroxides modified with triethanolamine. 2010 , 386, 51-59		36
434	Iron-alumina materials prepared by the non-hydrolytic solgel route: Synthesis, characterization and application in hydrocarbons oxidation using hydrogen peroxide as oxidant. 2010 , 389, 147-154		22
433	An environmentally friendly triphasic catalytic system: Mn(salen) occluded in membranes based on PDMS/PVA. <i>Applied Catalysis B: Environmental</i> , 2010 , 100, 55-61	1.8	10
432	A family of diiron monooxygenases catalyzing amino acid beta-hydroxylation in antibiotic biosynthesis. 2010 , 107, 15391-6		69
431	Characterization of the kaurene oxidase CYP701A3, a multifunctional cytochrome P450 from gibberellin biosynthesis. 2010 , 431, 337-44		74
430	Oxidation of inorganic compounds by Ferrate(VI) and Ferrate(V): one-electron and two-electron transfer steps. <i>Environmental Science & Environmental S</i>	0.3	159
429	High-Valent Iron-Oxo Porphyrins in Oxygenation Reactions. 2010 , 85-139		12
428	Activation of DNA carbon-hydrogen bonds by metal complexes. 2010 , 110, 1018-59		137
427	26 Cytochrome P450 Enzymes. 2010 , 165-201		4

(2011-2010)

426	N-demethylation of N,N-dimethylanilines by the benzotriazole N-oxyl radical: evidence for a two-step electron transfer-proton transfer mechanism. 2010 , 75, 1378-85		28
425	MEsbauer, electron paramagnetic resonance, and density functional theory studies of synthetic S = 1/2 Fe(III)-O-Fe(IV)?O complexes. Superexchange-mediated spin transition at the Fe(IV)?O site. 2010 , 49, 8310-22		19
424	The crystal structure of a high-spin oxoiron(IV) complex and characterization of its self-decay pathway. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8635-44	16.4	151
423	Declining capacity of starving Delftia acidovorans MC1 to degrade phenoxypropionate herbicides correlates with oxidative modification of the initial enzyme. <i>Environmental Science & amp; Technology</i> , 2010 , 44, 3793-9	10.3	12
422	Slow magnetic relaxation in a family of trigonal pyramidal iron(II) pyrrolide complexes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 18115-26	16.4	285
421	Density functional theory calculations on ruthenium(IV) bis(amido) porphyrins: search for a broader perspective of heme protein compound II intermediates. 2010 , 114, 15380-8		9
420	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
419	Oxygen atom transfer reactions from isolated (oxo)manganese(V) corroles to sulfides. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15233-45	16.4	117
418	cis-Dioxo- and cis-(hydroxo)oxo-Mo(V) complexes stabilized by intramolecular hydrogen-bonding. 2010 , 49, 9460-9		18
417	Transient inverted metastable iron hydroperoxides in fenton chemistry. A nonenzymatic model for cytochrome p450 hydroxylation. 2010 , 75, 3705-14		20
416	NO synthase: structures and mechanisms. 2010 , 23, 1-11		196
415	Electronic structure of an iron-porphyrin-nitrene complex. 2010 , 49, 243-8		15
414	Is [FeO](2+) the active center also in iron containing zeolites? A density functional theory study of methane hydroxylation catalysis by Fe-ZSM-5 zeolite. 2010 , 49, 3866-80		46
413	Synthesis and characterization of an iron(IV) ketimide complex. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12814-6	16.4	46
412	High-valent metalloporphyrins in hydrocarbon activation: metal(V)-oxo or metal(V)-hydroxo?. 2010 , 34, 1830		6
411	An abiotic analogue of the diiron(IV)oxo "diamond core" of soluble methane monooxygenase generated by direct activation of O2 in aqueous Fe(II)/EDTA solutions: thermodynamics and electronic structure. 2011 , 13, 15272-82		12
410	Iron porphyrin dications with neutral axial ligands: DFT calculations delineate similarities with heme protein compound II intermediates. 2011 , 115, 3642-7		7
409	DFT and Ab Initio Study of Iron-Oxo Porphyrins: May They Have a Low-Lying Iron(V)-Oxo Electromer?. 2011 , 7, 898-908		59

408	Scandium ion-enhanced oxidative dimerization and N-demethylation of N,N-dimethylanilines by a non-heme iron(IV)-oxo complex. 2011 , 50, 11612-22		71
407	Nanoaggregates of Mn(III)tetraperfluorophenylporphyrin: a greener approach for allylic oxidation of olefins. 2011 , 15, 1258-1264		7
406	New iron(II) ⊞minopyridine complexes and their catalytic activity in the oxidation of activated methylene groups and secondary alcohols to ketones. <i>Dalton Transactions</i> , 2011 , 40, 7617-31	4.3	47
405	Trends in Aromatic Oxidation Reactions Catalyzed by Cytochrome P450 Enzymes: A Valence Bond Modeling. 2011 , 7, 327-39		38
404	The directive of the protein: how does cytochrome P450 select the mechanism of dopamine formation?. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7977-84	16.4	200
403	Constructing de novo biosynthetic pathways for chemical synthesis inside living cells. 2011 , 50, 5404-18	3	34
402	The Role of Iron Coordination in the Production of Reactive Oxidants from Ferrous Iron Oxidation by Oxygen and Hydrogen Peroxide. 2011 , 177-197		32
401	Discovery and characterization of heme enzymes from unsequenced bacteria: application to microbial lignin degradation. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18006-9	16.4	84
400	Molecular probes of the mechanism of cytochrome P450. Oxygen traps a substrate radical intermediate. 2011 , 507, 111-8		40
399	Spectroscopic features of cytochrome P450 reaction intermediates. 2011 , 507, 26-35		96
399 398	Spectroscopic features of cytochrome P450 reaction intermediates. 2011 , 507, 26-35 Spectroscopic characterization of cytochrome P450 Compound I. 2011 , 507, 44-55		96 27
		16.4	
398	Spectroscopic characterization of cytochrome P450 Compound I. 2011 , 507, 44-55 Substrate-triggered activation of a synthetic [Fe2(ED)2] diamond core for C-H bond cleavage.	16.4	27
398 397	Spectroscopic characterization of cytochrome P450 Compound I. 2011 , 507, 44-55 Substrate-triggered activation of a synthetic [Fe2(ED)2] diamond core for C-H bond cleavage. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16657-67 A highly reactive mononuclear non-heme manganese(IV)-oxo complex that can activate the strong		²⁷ 48
398 397 396	Spectroscopic characterization of cytochrome P450 Compound I. 2011 , 507, 44-55 Substrate-triggered activation of a synthetic [Fe2(ED)2] diamond core for C-H bond cleavage. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16657-67 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 Mechanism of Al(3+)-catalyzed oxidations of hydrocarbons: dramatic activation of H2O2 toward O-O homolysis in complex [Al(H2O)4(OOH)(H2O2)](2+) explains the formation of HOIradicals.		27 48 177
398397396395	Spectroscopic characterization of cytochrome P450 Compound I. 2011 , 507, 44-55 Substrate-triggered activation of a synthetic [Fe2(EO)2] diamond core for C-H bond cleavage. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16657-67 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 Mechanism of Al(3+)-catalyzed oxidations of hydrocarbons: dramatic activation of H2O2 toward O-O homolysis in complex [Al(H2O)4(OOH)(H2O2)](2+) explains the formation of HOIFadicals. 2011 , 50, 3996-4005 Observation of Fe(V)=O using variable-temperature mass spectrometry and its enzyme-like C-H and		27 48 177 52
398397396395394	Spectroscopic characterization of cytochrome P450 Compound I. 2011, 507, 44-55 Substrate-triggered activation of a synthetic [Fe2(ED)2] diamond core for C-H bond cleavage. Journal of the American Chemical Society, 2011, 133, 16657-67 A highly reactive mononuclear non-heme manganese(IV)-oxo complex that can activate the strong C-H bonds of alkanes. Journal of the American Chemical Society, 2011, 133, 20088-91 Mechanism of Al(3+)-catalyzed oxidations of hydrocarbons: dramatic activation of H2O2 toward O-O homolysis in complex [Al(H2O)4(OOH)(H2O2)](2+) explains the formation of HOIradicals. 2011, 50, 3996-4005 Observation of Fe(V)=O using variable-temperature mass spectrometry and its enzyme-like C-H and C=C oxidation reactions. 2011, 3, 788-93 Energy Decomposition Analysis of the Protein Environmental Effect: The Case of Cytochrome		27 48 177 52 242

390	characterisation. 2011 , 379, 163-170	3
389	Selective Cℍ oxidation catalyzed by metalloporphyrins. 2011 , 255, 2912-2932	279
388	Structure and oxygenase activity of the iron(ii) complex with pyridylcarboxamide ligand. 2011 , 60, 2094-2099	3
387	A hyperactive cobalt-substituted extradiol-cleaving catechol dioxygenase. 2011 , 16, 341-55	64
386	Iron, cysteine and Parkinson disease. 2011 , 142, 325-329	12
385	New FeII and CuII Complexes Bearing Azathia Macrocycles ICatalyst Precursors for Mild Peroxidative Oxidation of Cyclohexane and 1-Phenylethanol. 2011 , 2011, n/a-n/a	35
384	Tuning a P450 Enzyme for Methane Oxidation. 2011 , 123, 2772-2776	42
383	Tuning a p450 enzyme for methane oxidation. 2011 , 50, 2720-4	116
382	A seven-coordinate iron platform and its oxo and nitrene reactivity. 2011 , 369, 82-91	29
381	Hormesis and a Chemical Raison D'tre for Secondary Plant Metabolites. 2010 , 9, 79-116	47
380	Electrochemistry in the mimicry of oxidative drug metabolism by cytochrome P450s. 2011 , 12, 359-71	44
379	Use of Boron-Doped Diamond Electrode in Electrochemical Generation and Applications of Ferrate. 2011 , 213-236	2
378	Mechanisms of Drug Metabolism. 2012 , 1	
377	Dihydrogen catalysis: a degradation mechanism for N2-fixation intermediates. 2012 , 116, 11618-42	15
376	Cytochromes P450. 2012 , 27-66	2
375	Spectroscopic capture and reactivity of $S = 1/2$ nickel(III)-oxygen intermediates in the reaction of a Ni(II)-salt with mCPBA. 2012 , 48, 3730-2	75
374	Spin-forbidden hydrogen atom transfer reactions in a cobalt biimidazoline system. 2012 , 3, 230-243	31
373	Low-energy states of manganese-oxo corrole and corrolazine: multiconfiguration reference ab initio calculations. 2012 , 51, 4002-6	32

372	Cp* Iridium Precatalysts for Selective CH Oxidation via Direct Oxygen Insertion: A Joint Experimental/Computational Study. 2012 , 2, 208-218	78
371	Influence of the Net Charge on the Reactivity of a Manganese(IV) Species: Leading to the Correlation of Its Physicochemical Properties with Reactivity. 2012 , 116, 13231-13239	22
370	Oxidative aliphatic C-H fluorination with fluoride ion catalyzed by a manganese porphyrin. 2012 , 337, 1322-5	422
369	Efficient catalytic oxidation of hydrocarbons mediated by tricopper clusters under mild conditions. 2012 , 293, 186-194	42
368	Katalytische, milde und selektive Oxyfunktionalisierung von linearen Alkanen: aktuelle Herausforderungen. 2012 , 124, 10870-10881	26
367	Catalytic, mild, and selective oxyfunctionalization of linear alkanes: current challenges. 2012 , 51, 10712-23	108
366	Towards alternatives to anodic water oxidation: basket-handle thiolate Fe(III) porphyrins for electrocatalytic hydrocarbon oxidation. 2012 , 5, 2361-75	3
365	Oxo iron(IV) as an oxidative active intermediate of p-chlorophenol in the Fenton reaction: a DFT study. 2012 , 14, 3766-74	5
364	Binuclear cobalt complex with Schiff base ligand: Synthesis, characterization and catalytic properties in partial oxidation of cyclohexane. 2012 , 392, 221-228	25
363	A high-valent iron-oxo corrolazine activates C-H bonds via hydrogen-atom transfer. <i>Journal of the American Chemical Society</i> , 2012 , 134, 7392-9	57
362	Reactive Species. 2012 , 1-51	
361	Reactive Oxygen Species. 2012 , 122-204	
360	Ferryl-oxo species produced from Fenton's reagent via a two-step pathway: minimum free-energy path analysis. 2012 , 116, 14178-82	32
359	pH-induced mechanistic changeover from hydroxyl radicals to iron(IV) in the Fenton reaction. 2012 , 3, 1594	224
358	A series of hybrid P450 BM3 enzymes with different catalytic activity in the light-initiated hydroxylation of lauric acid. <i>Journal of Inorganic Biochemistry</i> , 2012 , 115, 50-6	32
357	High-Valent Cr, Mn, and Fe Species. 2012 , 278-382	1
356	Biomimicry in Organic Synthesis. 2012 , 419-453	
355	Metal Ions in Neurological Systems. 2012 ,	8

354	Interplay between Metal Ions and Nucleic Acids. Metal Ions in Life Sciences, 2012,	2.6	11
353	Comparison of the FeO(2+) and FeS(2+) complexes in the cyanide and isocyanide ligand environment for methane hydroxylation. 2012 , 33, 1448-57		3
352	Role of Fe(IV)-oxo intermediates in stoichiometric and catalytic oxidations mediated by iron pyridine-azamacrocycles. 2012 , 51, 5006-21		60
351	A high-spin iron(IV)-oxo complex supported by a trigonal nonheme pyrrolide platform. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1536-42	16.4	122
350	The biology and chemistry of high-valent iron-oxo and iron-nitrido complexes. 2012 , 3, 720		367
349	A non-heme iron(III) complex with porphyrin-like properties that catalyzes asymmetric epoxidation. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13538-41	16.4	75
348	The Reaction of a High-Valent Nonheme Oxoiron(IV) Intermediate with Hydrogen Peroxide. 2012 , 124, 5472-5476		4
347	The reaction of a high-valent nonheme oxoiron(IV) intermediate with hydrogen peroxide. 2012 , 51, 537	76-80	18
346	Green and selective oxidation reactions catalyzed by kaolinite covalently grafted with Fe(III) pyridine-carboxylate complexes. 2012 , 187, 135-149		47
345	Axial ligation in water-soluble copper porphyrinates: contrasts between EPR and UVIIis. 2012 , 18, 1-3		5
344	Immobilization of anionic iron(III) porphyrins onto in situ obtained zinc oxide. 2012, 377, 379-86		19
343	Trinuclear Non-Heme Iron Complexes Based on 4-Substituted 2,6-Diacylpyridine Ligands as Catalysts in Aerobic Allylic Oxidations. 2012 , 95, 197-210		4
342	C-H functionalization: thoroughly tuning ligands at a metal ion, a chemist can greatly enhance catalyst's activity and selectivity. <i>Dalton Transactions</i> , 2013 , 42, 12794-818	4.3	156
341	Cyclohexene as a substrate probe for the nature of the high-valent iron-oxo oxidant in Fe(TPA)-catalyzed oxidations. 2013 , 37, 3411		26
340	Heterogeneous fenton degradation of azo dyes catalyzed by modified polyacrylonitrile fiber fe complexes: QSPR (quantitative structure peorperty relationship) study. 2013 , 25, 1469-76		22
339	Differential coordination demands in Fe versus Mn water-soluble cationic metalloporphyrins translate into remarkably different aqueous redox chemistry and biology. 2013 , 52, 5677-91		53
338	Green Challenges of Catalysis via Iron(IV)oxo and Iron(V)oxo Species. 2013, 65, 117-163		19
337	Active Species of Nonheme Iron and Manganese-Catalyzed Oxidations. 2013 , 56, 939-949		22

336	Cationic and anionic metalloporphyrins simultaneously immobilized onto raw halloysite nanoscrolls catalyze oxidation reactions. 2013 , 460-461, 124-131	23
335	Metalloporphyrins immobilized on silica-coated Fe3O4 nanoparticles: Magnetically recoverable catalysts for the oxidation of organic substrates. 2013 , 459, 121-130	54
334	Photoassisted degradation of CI Reactive Red 195 using an Fe(III)-grafted polytetrafluoroethylene fibre complex as a novel heterogeneous Fenton catalyst over a wide pH range. 2013 , 129, 403-411	15
333	Kinetic solvent isotope effect in human P450 CYP17A1-mediated androgen formation: evidence for a reactive peroxoanion intermediate. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16245-7	50
332	Robust iron coordination complexes with N-based neutral ligands as efficient Fenton-like catalysts at neutral pH. <i>Environmental Science & Damp; Technology</i> , 2013 , 47, 9918-27	34
331	A quantitative assessment of the production of DH and additional oxidants in the dark Fenton reaction: Fenton degradation of aromatic amines. 2013 , 3, 26443	43
330	Complex N-heterocycle synthesis via iron-catalyzed, direct C-H bond amination. 2013 , 340, 591-5	463
329	Binuclear iron complexes with acyclic Schiff bases based on 4-tert-butyl-2,6-diformylphenol: synthesis, properties, and use in catalytic partial oxidation of isobutane. 2013 , 62, 1201-1209	2
328	Unexpected one-pot synthesis of A3-type unsymmetrical porphyrin. 2013 , 54, 5853-5856	7
327	Molecular imaging of labile iron(II) pools in living cells with a turn-on fluorescent probe. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15165-73	134
326	Electronic structure analysis of multistate reactivity in transition metal catalyzed reactions: the case of C-H bond activation by non-heme iron(IV)-oxo cores. 2013 , 15, 8017-30	138
325	Oxidation of water by a nonhaem diiron(IV) complex via proton-coupled electron transfer. 2013 , 49, 10682-4	27
324	Ferrate(VI) and ferrate(V) oxidation of organic compounds: Kinetics and mechanism. 2013, 257, 495-510	209
323	Iron(III) porphyrin supported on metahalloysite: an efficient and reusable catalyst for oxidation reactions. <i>Catalysis Science and Technology</i> , 2013 , 3, 1094	27
322	A tetracarbene-oxoiron(IV) complex. 2013 , 52, 901-5	105
321	Pyrazinecarboxylic acid and analogs: Highly efficient co-catalysts in the metal-complex-catalyzed oxidation of organic compounds. 2013 , 257, 732-754	124
320	Oxidase uncoupling in heme monooxygenases: human cytochrome P450 CYP3A4 in Nanodiscs. 2013 , 430, 1223-7	49
319	High-valent nonheme iron-oxo complexes: Synthesis, structure, and spectroscopy. 2013 , 257, 414-428	392

318	Redox Activation of Small Molecules at Biological Metal Centers. 2013 , 97-117	11
317	Remarkable solvent, porphyrin ligand, and substrate effects on participation of multiple active oxidants in manganese(III) porphyrin catalyzed oxidation reactions. 2013 , 19, 1810-8	38
316	A Tetracarbene®xoiron(IV) Complex. 2013 , 125, 935-939	32
315	Iron(II) ⊞Aminopyridine Complexes and Their Catalytic Activity in Oxidation Reactions: A Comparative Study of Activity and Ligand Decomposition. 2013 , 78, 101-116	30
314	Deoxygenation of mono-oxo bis(dithiolene) Mo and W complexes by protonation. 2013 , 52, 8706-12	8
313	Comparative insight into electronic properties and reactivities toward C-H bond activation by iron(IV)-nitrido, iron(IV)-oxo, and iron(IV)-sulfido complexes: a theoretical investigation. 2013 , 52, 2684-96	19
312	Hydrogen-bonding effects on the reactivity of [X-Fe(III)-O-Fe(IV)?O] (X = OH, F) complexes toward C-H bond cleavage. 2013 , 52, 3976-84	28
311	Non-heme iron catalysis in C C, CH, and CH2 oxidation reactions. Oxidative transformations on terpenoids catalyzed by Fe(bpmen)(OTf)2. 2013 , 69, 2977-2986	25
310	Earth science: Western North America's jigsaw. 2013 , 496, 35-7	2
309	Biochemistry: Positive and radical. 2013 , 496, 34-5	
309	Bristed 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	86
	Brfisted 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</i> 16.4	86
308	Brfisted 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 Generation of HOIRadical from Hydrogen Peroxide Catalyzed by Aqua Complexes of the Group III	
308	Brfisted 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 Generation of HOIRadical from Hydrogen Peroxide Catalyzed by Aqua Complexes of the Group III Metals [M(H2O)n]3+ (M = Ga, In, Sc, Y, or La): A Theoretical Study. 2013 , 3, 1195-1208	51
308 307 306	Brfisted 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 Generation of HOIRadical from Hydrogen Peroxide Catalyzed by Aqua Complexes of the Group III Metals [M(H2O)n]3+ (M = Ga, In, Sc, Y, or La): A Theoretical Study. 2013 , 3, 1195-1208 What makes a P450 tick?. 2013 , 38, 140-50	51 153
308 307 306 305	Bristed 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 Generation of HOIRadical from Hydrogen Peroxide Catalyzed by Aqua Complexes of the Group III Metals [M(H2O)n]3+ (M = Ga, In, Sc, Y, or La): A Theoretical Study. 2013 , 3, 1195-1208 What makes a P450 tick?. 2013 , 38, 140-50 57Fe-Missbauer Spectroscopy and Basic Interpretation of Missbauer Parameters. 2013 , 109-130	51 153 3
308 307 306 305	Bristed 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 Generation of HOIRadical from Hydrogen Peroxide Catalyzed by Aqua Complexes of the Group III Metals [M(H2O)n]3+ (M = Ga, In, Sc, Y, or La): A Theoretical Study. 2013 , 3, 1195-1208 What makes a P450 tick?. 2013 , 38, 140-50 57Fe-Missbauer Spectroscopy and Basic Interpretation of Missbauer Parameters. 2013 , 109-130 Water complexes of cytochrome P450: insights from energy decomposition analysis. 2013 , 18, 6782-91 Virus removal and inactivation by iron (hydr)oxide-mediated Fenton-like processes under sunlight	51153336

300	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	5.4	111
299	A frontier orbital study with ab initio molecular dynamics of the effects of solvation on chemical reactivity: solvent-induced orbital control in FeO-activated hydroxylation reactions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8857-67	5.4	36
298	Metalloporphyrin-functionalized hexagonal mesoporous silica: Synthesis, structural properties and catalytic activity as cytochrome P450 model. 2013 , 168, 37-45		26
297	Ferrates(IV, V, and VI): Missbauer Spectroscopy Characterization. 2013, 505-520		4
296	Identity and mechanisms of alkane-oxidizing metalloenzymes from deep-sea hydrothermal vents. 2013 , 4, 109		10
295	Application of MSsbauer Spectroscopy To Nanomagnetics. 2013 , 429-454		
294	Applications of density functional theory to iron-containing molecules of bioinorganic interest. 2014 , 2, 14		16
293	. 2014,		4
292	The Bioorganometallic Chemistry of Hydrogenase. 2014 , 239-272		4
291	Fenton chemistry at aqueous interfaces. 2014 , 111, 623-8		206
291 290	Fenton chemistry at aqueous interfaces. 2014, 111, 623-8 Functional diversity of 2-oxoglutarate/Fe(II)-dependent dioxygenases in plant metabolism. 2014, 5, 524		206
	Functional diversity of 2-oxoglutarate/Fe(II)-dependent dioxygenases in plant metabolism. 2014 , 5, 524	5. 4	
290	Functional diversity of 2-oxoglutarate/Fe(II)-dependent dioxygenases in plant metabolism. 2014 , 5, 524 Long-range electron transfer triggers mechanistic differences between iron(IV)-oxo and	5.4	94
290 289	Functional diversity of 2-oxoglutarate/Fe(II)-dependent dioxygenases in plant metabolism. 2014 , 5, 524 Long-range electron transfer triggers mechanistic differences between iron(IV)-oxo and iron(IV)-imido oxidants. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17102-15	5.4	94
290 289 288	Functional diversity of 2-oxoglutarate/Fe(II)-dependent dioxygenases in plant metabolism. 2014 , 5, 524 Long-range electron transfer triggers mechanistic differences between iron(IV)-oxo and iron(IV)-imido oxidants. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17102-15 A cis-Divacant Octahedral and Mononuclear Iron(IV) Imide. 2014 , 126, 14363-14367	<i>5</i> .4	94 93 15
290 289 288 287	Functional diversity of 2-oxoglutarate/Fe(II)-dependent dioxygenases in plant metabolism. 2014, 5, 524 Long-range electron transfer triggers mechanistic differences between iron(IV)-oxo and iron(IV)-imido oxidants. <i>Journal of the American Chemical Society</i> , 2014, 136, 17102-15 A cis-Divacant Octahedral and Mononuclear Iron(IV) Imide. 2014, 126, 14363-14367 A cis-divacant octahedral and mononuclear iron(IV) imide. 2014, 53, 14139-43		94931557
290 289 288 287 286	Functional diversity of 2-oxoglutarate/Fe(II)-dependent dioxygenases in plant metabolism. 2014, 5, 524 Long-range electron transfer triggers mechanistic differences between iron(IV)-oxo and iron(IV)-imido oxidants. Journal of the American Chemical Society, 2014, 136, 17102-15 A cis-Divacant Octahedral and Mononuclear Iron(IV) Imide. 2014, 126, 14363-14367 A cis-divacant octahedral and mononuclear iron(IV) imide. 2014, 53, 14139-43 The degradation of EDTA by the bimetallic Fettu/O2 system. 2014, 250, 354-365 Does a higher metal oxidation state necessarily imply higher reactivity toward H-atom transfer? A computational study of C-H bond oxidation by high-valent iron-oxo and -nitrido complexes. Dalton 4.	3	9493155725

282	MauG, a diheme enzyme that catalyzes tryptophan tryptophylquinone biosynthesis by remote catalysis. 2014 , 544, 112-8	4
281	Glycol metalloporphyrin derivatives in solution or immobilized on LDH and silica: synthesis, characterization and catalytic features in oxidation reactions. <i>Catalysis Science and Technology</i> , 5.5 2014 , 4, 129-141	30
280	Do Spin State and Spin Density Affect Hydrogen Atom Transfer Reactivity?. 2014 , 5,	117
279	Ketimido metallophthalocyanines: an approach to phthalocyanine-supported mononuclear high-valent ruthenium complexes. 2014 , 9, 338-50	6
278	Tetracarboxyphenylporphyrin R aolinite Hybrid Materials as Efficient Catalysts and Antibacterial Agents. 2014 , 118, 24562-24574	21
277	Mechanistic insight into the hydroxylation of alkanes by a nonheme iron(V)-oxo complex. 2014 , 50, 5572-5	61
276	Site-directed mutagenesis of Gln103 reveals the influence of this residue on the redox properties and stability of MauG. 2014 , 53, 1342-9	9
275	Isolation of iron(II) aqua and hydroxyl complexes featuring a tripodal H-bond donor and acceptor ligand. 2014 , 53, 4450-8	44
274	Kinetic solvent isotope effect in steady-state turnover by CYP19A1 suggests involvement of Compound 1 for both hydroxylation and aromatization steps. 2014 , 588, 3117-22	33
273	Recent development of direct asymmetric functionalization of inert CH bonds. 2014, 4, 6173	448
²⁷³	Recent development of direct asymmetric functionalization of inert CH bonds. 2014, 4, 6173 Site-selective aliphatic C-H bromination using N-bromoamides and visible light. <i>Journal of the American Chemical Society</i> , 2014, 136, 14389-92	448 157
	Site-selective aliphatic C-H bromination using N-bromoamides and visible light. <i>Journal of the</i>	
272	Site-selective aliphatic C-H bromination using N-bromoamides and visible light. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14389-92 Radical decomposition of hydrogen peroxide catalyzed by aqua complexes [M(H2O)n]2+ (M = Be,	157
272 271	Site-selective aliphatic C-H bromination using N-bromoamides and visible light. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14389-92 Radical decomposition of hydrogen peroxide catalyzed by aqua complexes [M(H2O)n]2+ (M = Be, Zn, Cd). 2014 , 313, 135-148	1 57
272 271 270	Site-selective aliphatic C-H bromination using N-bromoamides and visible light. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14389-92 Radical decomposition of hydrogen peroxide catalyzed by aqua complexes [M(H2O)n]2+ (M = Be, Zn, Cd). 2014 , 313, 135-148 Biochemistry. Fishing for peroxidase protons. 2014 , 345, 142-3 Unified view of oxidative C-H bond cleavage and sulfoxidation by a nonheme iron(IV)-oxo complex	157 40 20
272 271 270 269	Site-selective aliphatic C-H bromination using N-bromoamides and visible light. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14389-92 Radical decomposition of hydrogen peroxide catalyzed by aqua complexes [M(H2O)n]2+ (M = Be, Zn, Cd). 2014 , 313, 135-148 Biochemistry. Fishing for peroxidase protons. 2014 , 345, 142-3 Unified view of oxidative C-H bond cleavage and sulfoxidation by a nonheme iron(IV)-oxo complex via Lewis acid-promoted electron transfer. 2014 , 53, 3618-28	157 40 20 97
272271270269268	Site-selective aliphatic C-H bromination using N-bromoamides and visible light. Journal of the American Chemical Society, 2014, 136, 14389-92 Radical decomposition of hydrogen peroxide catalyzed by aqua complexes [M(H2O)n]2+ (M = Be, Zn, Cd). 2014, 313, 135-148 Biochemistry. Fishing for peroxidase protons. 2014, 345, 142-3 Unified view of oxidative C-H bond cleavage and sulfoxidation by a nonheme iron(IV)-oxo complex via Lewis acid-promoted electron transfer. 2014, 53, 3618-28 7.14 Nondirected Aryl CH Oxidations. 2014, 347-372 Iron(II) complexes supported by sulfonamido tripodal ligands: endogenous versus exogenous	157 40 20 97

264	Elimination of 4-chlorophenol in aqueous solution by the bimetallic Alfle/O2 at normal temperature and pressure. 2014 , 236, 274-284	35
263	Resonance Raman spectroscopy of the oxygenated intermediates of human CYP19A1 implicates a compound i intermediate in the final lyase step. <i>Journal of the American Chemical Society</i> , 2014 , 16.2 136, 4825-8	42
262	Biomimetic Iron-Catalyzed Asymmetric Epoxidations: Fundamental Concepts, Challenges and Opportunities. 2014 , 356, 261-299	57
261	Effect of protein environment within cytochrome P450cam evaluated using a polarizable-embedding QM/MM method. 2014 , 118, 2084-92	16
260	Active sites and mechanisms of bioinspired oxidation with H2O2, catalyzed by non-heme Fe and related Mn complexes. 2014 , 276, 73-96	185
259	Terminal Metal®xo Species with Unusual Spin States. 2015 , 203-227	2
258	Selective Oxidation Catalysts Obtained by the Immobilization of Iron (III) Porphyrins on Layered Hydroxide Salts. 2015 , 6526-6542	1
257	Nitrene Insertion into C-C and C-H Bonds of Diamide Diimine Ligands Ligated to Chromium and Iron. 2015 , 54, 14407-11	25
256	Mechanisms of Oxygen Atom Transfer between Main-Group Elements. 2015, 2015, 4138-4144	1
255	Probing the Primary Photochemical Processes of Octahedral Iron(V) Formation with Femtosecond Mid-infrared Spectroscopy. 2015 , 16, 2289-93	23
254	Nitrene Insertion into C?C and C?H Bonds of Diamide Diimine Ligands Ligated to Chromium and Iron. 2015 , 127, 14615-14619	5
253	. 2015,	33
252	Manganese Catalyzed C-H Halogenation. 2015 , 48, 1727-35	312
251	Efficient Epoxidation of Styrene Derivatives by a Nonheme Iron(IV)-Oxo Complex via Proton-Coupled Electron Transfer with Triflic Acid. 2015 , 54, 5806-12	46
250	Water-Soluble Iron(IV)-Oxo Complexes Supported by Pentapyridine Ligands: Axial Ligand Effects on Hydrogen Atom and Oxygen Atom Transfer Reactivity. 2015 , 54, 5879-87	47
249	In Silico Screening of Iron-Oxo Catalysts for CH Bond Cleavage. 2015 , 5, 2490-2499	25
248	Biological diversity of cytochrome P450 redox partner systems. 2015 , 851, 299-317	37
247	Monooxygenase, Peroxidase and Peroxygenase Properties and Mechanisms of Cytochrome P450. 2015 ,	18

Activation of Molecular Oxygen in Cytochromes P450. 2015 , 69-109	10
Activation and Oxidation of Mesitylene CH Bonds by (Phebox)Iridium(III) Complexes. 2015, 34, 2879-2888	16
Formation of a Predominant Metabolite of Hydroxydihydrocarvone Evaluated by a Biomimetic Oxidative Model and in Rat Liver Microsomes. 2015 , 2, e61-e64	
Synthesis of new metalloporphyrin derivatives from [5,10,15,20-tetrakis (pentafluorophenyl)porphyrin] and 4-mercaptobenzoic acid for homogeneous and heterogeneous catalysis. 2015 , 503, 9-19	27
Biomimetic Oxidation with Fe-ZSM-5 and H2O2? Identification of an Active, Extra-Framework Binuclear Core and an FeIII?OOH Intermediate with Resonance-Enhanced Raman Spectroscopy. 2015 , 7, 434-440	37
Ferryl protonation in oxoiron(IV) porphyrins and its role in oxygen transfer. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2875-85	55
Ligand Field Effects and the High SpinHigh Reactivity Correlation in the H Abstraction by Non-Heme Iron(IV)Dxo Complexes: A DFT Frontier Orbital Perspective. 2015 , 5, 1475-1488	35
Simple soluble Bi(III) salts as efficient catalysts for the oxidation of alkanes with H2O2. <i>Catalysis Science and Technology</i> , 2015 , 5, 2174-2187	26
Tuning the reactivity of Fe(V)(O) toward C-H bonds at room temperature: effect of water. 2015 , 54, 1535-42	23
Moving protons and electrons in biomimetic systems. 2015 , 54, 1863-78	77
Identification of new substrates for the CYP106A1-mediated 11-oxidation and investigation of the reaction mechanism. 2015 , 589, 2320-6	14
Mechanistic elucidation of C-H oxidation by electron rich non-heme iron(IV)-oxo at room temperature. 2015 , 51, 14469-72	50
Mononuclear nonheme iron(IV)-oxo and manganese(IV)-oxo complexes in oxidation reactions: experimental results prove theoretical prediction. 2015 , 51, 13094-7	34
Mechanism and Dynamics of Intramolecular C-H Insertion Reactions of 1-Aza-2-azoniaallene Salts. Journal of the American Chemical Society, 2015, 137, 9100-7	21
Computational and Experimental Studies of Phthaloyl Peroxide-Mediated Hydroxylation of Arenes Yield a More Reactive Derivative, 4,5-Dichlorophthaloyl Peroxide. 2015 , 80, 8084-95	19
Nonheme Fe(IV) Oxo Complexes of Two New Pentadentate Ligands and Their Hydrogen-Atom and Oxygen-Atom Transfer Reactions. 2015 , 54, 7152-64	56
Estrogen Formation via H-Abstraction from the OH Bond of gem-Diol by Compound I in the Reaction of CYP19A1: Mechanistic Scenario Derived from Multiscale QM/MM Calculations. 2015 , 5, 4175-4179) ¹⁹
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	69
	Activation and Oxidation of Mesitylene CH Bonds by (Phebox)Iridium(III) Complexes. 2015, 34, 2879-2888 Formation of a Predominant Metabolite of Hydroxydihydrocarvone Evaluated by a Biomimetic Oxidative Model and in Rat Liver Microsomes. 2015, 2, e61-e64 Synthesis of new metalloporphyrin derivatives from [5,10,15,20-tetrakis (pentafluorophenyl)porphyrin] and 4-mercaptobenzoic acid for homogeneous and heterogeneous catalysis. 2015, 503, 9-19 Biomimetic Oxidation with Fe-ZSM-5 and H2O2? Identification of an Active, Extra-Framework Binuclear Core and an Felli?OOH Intermediate with Resonance-Enhanced Raman Spectroscopy. 2015, 7, 434-440 Ferryl protonation in oxoiron(IV) porphyrins and its role in oxygen transfer. Journal of the American Chemical Society, 2015, 137, 2875-85 Ligand Field Effects and the High SpinHigh Reactivity Correlation in the H Abstraction by Non-Heme Iron(IV)Dxo Complexes: A DFT Frontier Orbital Perspective. 2015, 5, 1475-1488 Simple soluble Bi(III) salts as efficient catalysts for the oxidation of alkanes with H2O2. Catalysis Science and Technology, 2015, 5, 2174-2187 Tuning the reactivity of Fe(V)(O) toward C-H bonds at room temperature: effect of water. 2015, 54, 1535-42 Moving protons and electrons in biomimetic systems. 2015, 54, 1863-78 Identification of new substrates for the CYP106A1-mediated 11-oxidation and investigation of the reaction mechanism. 2015, 589, 2320-6 Mechanistic elucidation of C-H oxidation by electron rich non-heme iron(IV)-oxo at room temperature. 2015, 51, 14469-72 Mononuclear nonheme iron(IV)-oxo and manganese(IV)-oxo complexes in oxidation reactions: experimental results prove theoretical prediction. 2015, 51, 13094-7 Mechanism and Dynamics of Intramolecular C-H Insertion Reactions of 1-Aza-2-azoniaallene Salts. Journal of the American Chemical Society, 2015, 137, 9100-7 Computational and Experimental Studies of Phthaloyl Peroxide-Mediated Hydroxylation of Arenes Yield a More Reactive Derivative, 4,5-Dichlorophthaloyl Peroxide-Mediated Hydroxylation of A

228	The role of methane in mammalian physiology-is it a gasotransmitter?. 2015 , 9, 014001		30
227	Galactodendritic porphyrinic conjugates as new biomimetic catalysts for oxidation reactions. 2015 , 54, 4382-93		26
226	Mechanism of Oxidation of Ethane to Ethanol at Iron(IV)-Oxo Sites in Magnesium-Diluted Fe2(dobdc). <i>Journal of the American Chemical Society</i> , 2015 , 137, 5770-81	16.4	125
225	Multiscale Model for a Metal Organic Framework: High-Spin Rebound Mechanism in the Reaction of the Oxoiron(IV) Species of Fe-MOF-74. 2015 , 5, 3287-3291		44
224	Tuning the Reactivity of Mononuclear Nonheme Manganese(IV)-Oxo Complexes by Triflic Acid. 2015 , 6, 3624-3632		70
223	Manganese-catalyzed late-stage aliphatic C-H azidation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5300-3	16.4	223
222	Manganese chlorins immobilized on silica as oxidation reaction catalysts. 2015 , 450, 339-352		6
221	Oxidation of methane by an N-bridged high-valent diiron-oxo species: electronic structure implications on the reactivity. <i>Dalton Transactions</i> , 2015 , 44, 15232-43	4.3	33
220	Synthesis and characterization of M(II) (M = Mn, Fe and Co) azafulvene complexes and their X3(-) derivatives. <i>Dalton Transactions</i> , 2015 , 44, 10377-84	4.3	12
219	Synergistic effect of co-reactant promotes one-step oxidation of cyclohexane into adipic acid catalyzed by manganese porphyrins. 2015 , 93, 696-701		12
218	Fully Internally Contracted Multireference Configuration Interaction Theory Using Density Matrix Renormalization Group: A Reduced-Scaling Implementation Derived by Computer-Aided Tensor Factorization. 2015 , 11, 5120-31		56
217	New Fe(II) complexes with Schiff base ligand: Synthesis, spectral characterization, magnetic studies and thermal stability. 2015 , 102, 609-614		6
216	Catalytic Oxidation of Alkanes and Alkenes by H2O2 with a EOxido Diiron(III) Complex as Catalyst/Catalyst Precursor. 2015 , 2015, 3590-3601		19
215	Improved syntheses of Ebctabromo-meso-triarylcorrole derivatives. <i>Journal of Inorganic Biochemistry</i> , 2015 , 153, 162-166	4.2	10
214	Bioinspired design of redox-active ligands for multielectron catalysis: effects of positioning pyrazine reservoirs on cobalt for electro- and photocatalytic generation of hydrogen from water. 2015 , 6, 4954-4972		77
213	Bioinspired oxidations of aliphatic CH groups with H2O2 in the presence of manganese complexes. <i>Journal of Organometallic Chemistry</i> , 2015 , 793, 102-107	2.3	27
212	Activation of persulfate by irradiated magnetite: implications for the degradation of phenol under heterogeneous photo-Fenton-like conditions. <i>Environmental Science & Environmental Science & Enviro</i>	5 ^{10.3}	184
211	Comparison of heme and nonheme iron-based 1-aminocyclopropane-1-carboxylic acid oxidase mimics: kinetic, mechanistic and computational studies. 2015 , 5, 2075-2079		2

(2016-2015)

210	Mechanism of Selective C⊞ Hydroxylation Mediated by Manganese Aminopyridine Enzyme Models. 2015 , 5, 39-44		63
209	Recent Advances in Solid Catalysts Obtained by Metalloporphyrins Immobilization on Layered Anionic Exchangers: A Short Review and Some New Catalytic Results. 2016 , 21, 291		38
208	Direct Selective Oxidative Functionalization of C-H Bonds with HDEIMn-Aminopyridine Complexes Challenge the Dominance of Non-Heme Fe Catalysts. 2016 , 21,		29
207	Selective oxidation catalysts obtained by immobilization of iron(III) porphyrins on thiosalicylic acid-modified Mg-Al layered double hydroxides. 2016 , 478, 374-83		17
206	Selective, Tunable O2 Binding in Cobalt(II)-Triazolate/Pyrazolate Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2016 , 138, 7161-70	16.4	79
205	Magnetic Circular Dichroism Evidence for an Unusual Electronic Structure of a Tetracarbene-Oxoiron(IV) Complex. <i>Journal of the American Chemical Society</i> , 2016 , 138, 14312-14325	16.4	43
204	Activation of Dioxygen by Iron and Manganese Complexes: A Heme and Nonheme Perspective. Journal of the American Chemical Society, 2016 , 138, 11410-28	16.4	213
203	Isolation and structural and electronic characterization of salts of the decamethylferrocene dication. 2016 , 353, 678-82		66
202	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
201	High-Valent Iron-Oxo and -Nitrido Complexes: Bonding and Reactivity. 2016 , 56, 763-772		24
201	High-Valent Iron-Oxo and -Nitrido Complexes: Bonding and Reactivity. 2016 , 56, 763-772 A growing family of O2 activating dinuclear iron enzymes with key catalytic diiron(III)-peroxo intermediates: Biological systems and chemical models. 2016 , 322, 142-158		24 52
	A growing family of O2 activating dinuclear iron enzymes with key catalytic diiron(III)-peroxo		
200	A growing family of O2 activating dinuclear iron enzymes with key catalytic diiron(III)-peroxo intermediates: Biological systems and chemical models. 2016, 322, 142-158 Mechanism of 17⊋0-Lyase and New Hydroxylation Reactions of Human Cytochrome P450 17A1: 180 LABELING AND OXYGEN SURROGATE EVIDENCE FOR A ROLE OF A PERFERRYL OXYGEN. 2016	16.4	52
200	A growing family of O2 activating dinuclear iron enzymes with key catalytic diiron(III)-peroxo intermediates: Biological systems and chemical models. 2016, 322, 142-158 Mechanism of 17⊉0-Lyase and New Hydroxylation Reactions of Human Cytochrome P450 17A1: 180 LABELING AND OXYGEN SURROGATE EVIDENCE FOR A ROLE OF A PERFERRYL OXYGEN. 2016, 291, 17143-64 How do Enzymes Utilize Reactive OH Radicals? Lessons from Nonheme HppE and Fenton Systems.	16.4	52 41
200199198	A growing family of O2 activating dinuclear iron enzymes with key catalytic diiron(III)-peroxo intermediates: Biological systems and chemical models. 2016, 322, 142-158 Mechanism of 17½0-Lyase and New Hydroxylation Reactions of Human Cytochrome P450 17A1: 180 LABELING AND OXYGEN SURROGATE EVIDENCE FOR A ROLE OF A PERFERRYL OXYGEN. 2016, 291, 17143-64 How do Enzymes Utilize Reactive OH Radicals? Lessons from Nonheme HppE and Fenton Systems. Journal of the American Chemical Society, 2016, 138, 8489-96 Metalloporphyrins immobilized in Fe3O4@SiO2 mesoporous submicrospheres: Reusable	16.4	52 41 39
200199198197	A growing family of O2 activating dinuclear iron enzymes with key catalytic diiron(III)-peroxo intermediates: Biological systems and chemical models. 2016, 322, 142-158 Mechanism of 17£0-Lyase and New Hydroxylation Reactions of Human Cytochrome P450 17A1: 180 LABELING AND OXYGEN SURROGATE EVIDENCE FOR A ROLE OF A PERFERRYL OXYGEN. 2016, 291, 17143-64 How do Enzymes Utilize Reactive OH Radicals? Lessons from Nonheme HppE and Fenton Systems. Journal of the American Chemical Society, 2016, 138, 8489-96 Metalloporphyrins immobilized in Fe3O4@SiO2 mesoporous submicrospheres: Reusable biomimetic catalysts for hydrocarbon oxidation. 2016, 469, 296-309 Evolution of C-H Bond Functionalization from Methane to Methodology. Journal of the American		52 41 39
200199198197196	A growing family of O2 activating dinuclear iron enzymes with key catalytic diiron(III)-peroxo intermediates: Biological systems and chemical models. 2016, 322, 142-158 Mechanism of 17P20-Lyase and New Hydroxylation Reactions of Human Cytochrome P450 17A1: 180 LABELING AND OXYGEN SURROGATE EVIDENCE FOR A ROLE OF A PERFERRYL OXYGEN. 2016, 291, 17143-64 How do Enzymes Utilize Reactive OH Radicals? Lessons from Nonheme HppE and Fenton Systems. Journal of the American Chemical Society, 2016, 138, 8489-96 Metalloporphyrins immobilized in Fe3O4@SiO2 mesoporous submicrospheres: Reusable biomimetic catalysts for hydrocarbon oxidation. 2016, 469, 296-309 Evolution of C-H Bond Functionalization from Methane to Methodology. Journal of the American Chemical Society, 2016, 138, 2-24 Applications of microbial cytochrome P450 enzymes in biotechnology and synthetic biology. 2016,		52 41 39 33 510

192	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. 2016 , 52, 904-7	12
191	Indefinitely stable iron(IV) cage complexes formed in water by air oxidation. 2017, 8, 14099	27
190	Ethane C-H bond activation on the Fe(iv)-oxo species in a Zn-based cluster of metal-organic frameworks: a density functional theory study. 2017 , 19, 3782-3791	10
189	Catalytic Determinants of Alkene Production by the Cytochrome P450 Peroxygenase OleT. 2017 , 292, 5128-5143	57
188	Production of alkenes and novel secondary products by P450 OleT using novel H O -generating fusion protein systems. 2017 , 591, 737-750	41
187	Selective C-H bond functionalization using repurposed or artificial metalloenzymes. 2017 , 37, 48-55	18
186	The Essential Role of Bond Energetics in C-H Activation/Functionalization. 2017, 117, 8622-8648	247
185	Fast Hydrogen Atom Abstraction by a Hydroxo Iron(III) Porphyrazine. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3938-3941	41
184	Two Exceptional Homoleptic Iron(IV) Tetraalkyl Complexes. 2017, 56, 10108-10113	32
183	Iron chemistry at the service of life. 2017 , 69, 382-388	64
182	Two Exceptional Homoleptic Iron(IV) Tetraalkyl Complexes. 2017, 129, 10242-10247	10
181	Magnetic HMS silica as a Support to Immobilization of Catalysts Based on Cationic Manganese Porphyrins. 2017 , 2, 3703-3715	5
180	Catalytic Oxidation of Water with High-Spin Iron(IV) Dxo Species: Role of the Water Solvent. 2017 , 7, 4018-4025	31
179	Targeting of High-Valent Iron-TAML Activators at Hydrocarbons and Beyond. 2017 , 117, 9140-9162	116
178	OD Bond Activation in Cu- and Fe-Based Coordination Complexes: Breaking It Makes the Difference. 2017 , 63-105	1
177	Generation, Spectroscopic, and Chemical Characterization of an Octahedral Iron(V)-Nitrido Species with a Neutral Ligand Platform. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9168-9177	33
176	Analysis of Hydrogen Atom Abstraction from Ethylbenzene by an FeO(TAML) Complex. 2017 , 56, 4347-4356	8
175	Mechanism of Cytochrome P450 17A1-Catalyzed Hydroxylase and Lyase Reactions. 2017 , 57, 1123-1133	18

174	Theoretical investigation of different reactivities of Fe(IV)O and Ru(IV)O complexes with the same ligand topology. 2017 , 70, 417-430		1
173	Beyond ferryl-mediated hydroxylation: 40lyears of the rebound mechanism and C-H activation. 2017 , 22, 185-207		168
172	Biomimetic Reactivity of Oxygen-Derived Manganese and Iron Porphyrinoid Complexes. 2017 , 117, 1332	20-133	35/2 87
171	Active Site Structures of CYP11A1 in the Presence of Its Physiological Substrates and Alterations upon Binding of Adrenodoxin. 2017 , 56, 5786-5797		9
170	Control of C-H Bond Activation by Mo-Oxo Complexes: pK or Bond Dissociation Free Energy (BDFE)?. 2017 , 56, 12319-12327		15
169	Nuclearity versus oxidation state in the catalytic efficiency of MnII/III azo Schiff base complexes: computational study on supramolecular interactions and phenoxazinone synthase-like activity. 2017 , 41, 11607-11618		10
168	meso-Tetraphenylporphyrin Iron Chloride Catalyzed Selective Oxidative Cross-Coupling of Phenols. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13404-13413	16.4	56
167	Total Synthesis of (IPN-Methylwelwitindolinone B Isothiocyanate. 2017 , 129, 10094-10098		4
166	Total Synthesis of (-)-N-Methylwelwitindolinone B Isothiocyanate. 2017 , 56, 9962-9966		8
165	Nonredox Metal Ions Promoted Olefin Epoxidation by Iron(II) Complexes with HO: DFT Calculations Reveal Multiple Channels for Oxygen Transfer. 2017 , 56, 15138-15149		29
164	A novel heterogeneous Fenton photocatalyst prepared using waste wool fiber combined with Fe3+ions for dye degradation. 2017 , 18, 713-719		7
163	Unusual catalytic activity after simultaneous immobilization of two metalloporphyrins on hydrozincite/nanocrystalline anatase. 2017 , 352, 442-451		10
162	Dioxygen activation chemistry by synthetic mononuclear nonheme iron, copper and chromium complexes. 2017 , 334, 25-42		112
161	High-valent metal-oxo complexes generated in catalytic oxidation reactions using water as an oxygen source. 2017 , 333, 44-56		49
160	Spectroscopic and DFT Characterization of a Highly Reactive Nonheme Fe-Oxo Intermediate. Journal of the American Chemical Society, 2018 , 140, 3916-3928	16.4	61
159	Palladium-catalysed electrophilic aromatic C-H fluorination. 2018 , 554, 511-514		92
158	Hydrolysis of Phosphate Esters Catalyzed by Inorganic Iron Oxide Nanoparticles Acting as Biocatalysts. 2018 , 18, 294-310		18
157	Hyper Open-Shell Excited Spin States of Transition-Metal Compounds: FeF, FeF⊞Ethane, and FeF⊞Ethylene. 2018 , 122, 2563-2579		8

156	Do two oxidants (ferric-peroxo and ferryl-oxo species) act in the biosynthesis of estrogens? A DFT calculation 2018 , 8, 15196-15201	5
155	Liquid-phase oxidation of alkanes with molecular oxygen catalyzed by high valent iron-based perovskite. 2018 , 54, 6772-6775	20
154	Theory of chemical bonds in metalloenzymes XXI. Possible mechanisms of water oxidation in oxygen evolving complex of photosystem II. 2018 , 116, 717-745	29
153	Synthesis, characterization, and reactivity of a chiral Fe(IV)\(\bar{0}\)xo complex bearing an L-proline-derived aminopyridine ligand. 2018 , 42, 8315-8319	6
152	Preparation, Characterization and Reactivity of a Bis-hypochlorite Adduct of a Chiral Manganese(IV) Salen Complex. 2018 , 57, 1685-1688	5
151	Effect of Jeffamine□ -Modified Phosphotungstic Acid on Porphyrin Synthesis in Water. 2018 , 3, 1275-1281	3
150	Electronic Structure and Spin Multiplicity of Iron Tetraphenylporphyrins in Their Reduced States as Determined by a Combination of Resonance Raman Spectroscopy and Quantum Chemistry. 2018 , 57, 2141-2148	30
149	Encyclopedia of Signaling Molecules. 2018 , 648-648	
148	Encyclopedia of Signaling Molecules. 2018 , 678-678	
147	Encyclopedia of Signaling Molecules. 2018 , 1254-1254	
147	Encyclopedia of Signaling Molecules. 2018 , 1254-1254 Encyclopedia of Signaling Molecules. 2018 , 962-967	
		4
146	Encyclopedia of Signaling Molecules. 2018, 962-967 Novel PEIAuNPsMn III PPIX nanocomposite with enhanced peroxidase-like catalytic activity in	4
146 145	Encyclopedia of Signaling Molecules. 2018, 962-967 Novel PEIAuNPsMn III PPIX nanocomposite with enhanced peroxidase-like catalytic activity in aqueous media. 2018, 21, 104-111 Kinetics and mechanistic studies on the formation and reactivity of high valent MnO porphyrin	
146 145	Encyclopedia of Signaling Molecules. 2018, 962-967 Novel PEIAuNPsMn III PPIX nanocomposite with enhanced peroxidase-like catalytic activity in aqueous media. 2018, 21, 104-111 Kinetics and mechanistic studies on the formation and reactivity of high valent MnO porphyrin species: mono-ortho or para-substituted porphyrins versus a di-ortho-substituted one. 2018, 42, 1806-1815 Oxygen Activation and Radical Transformations in Heme Proteins and Metalloporphyrins. 2018,	11
146 145 144	Encyclopedia of Signaling Molecules. 2018, 962-967 Novel PEIAuNPsMn III PPIX nanocomposite with enhanced peroxidase-like catalytic activity in aqueous media. 2018, 21, 104-111 Kinetics and mechanistic studies on the formation and reactivity of high valent MnO porphyrin species: mono-ortho or para-substituted porphyrins versus a di-ortho-substituted one. 2018, 42, 1806-1815 Oxygen Activation and Radical Transformations in Heme Proteins and Metalloporphyrins. 2018, 118, 2491-2553 Comparative study of three solid oxidants as substitutes of H2O2 used in Fe (III)-oxalate complex	11 434
146 145 144 143	Encyclopedia of Signaling Molecules. 2018, 962-967 Novel PEIAuNPsMn III PPIX nanocomposite with enhanced peroxidase-like catalytic activity in aqueous media. 2018, 21, 104-111 Kinetics and mechanistic studies on the formation and reactivity of high valent MnO porphyrin species: mono-ortho or para-substituted porphyrins versus a di-ortho-substituted one. 2018, 42, 1806-1815 Oxygen Activation and Radical Transformations in Heme Proteins and Metalloporphyrins. 2018, 118, 2491-2553 Comparative study of three solid oxidants as substitutes of H2O2 used in Fe (III)-oxalate complex mediated Fenton system for photocatalytic elimination of reactive azo dye. 2018, 177, 245-253 Thermal and photocatalytic oxidation of organic substrates by dioxygen with water as an electron	11 434 26

138	Family portraits: the enzymes behind benzylisoquinoline alkaloid diversity. 2018, 17, 249-277		30
137	Activation of NaSO for dye degradation by Fe complexes fixed on polycarboxylic acids modified waste cotton. 2018 , 181, 103-110		8
136	Oxidation catalyst obtained by the immobilization of layered double hydroxide/Mn(iii) porphyrin on monodispersed silica spheres. <i>Dalton Transactions</i> , 2018 , 47, 3068-3073	4.3	12
135	Challenges and opportunities for alkane functionalisation using molecular catalysts. 2018 , 9, 288-299		58
134	Bioinspired catalytic generation of high-valent cobalt-oxo species by the axially coordinated CoPc on pyridine-functionalized MWCNTs for the elimination of organic contaminants. 2018 , 434, 1112-1121		7
133	Mn-Mimochrome VIa: An Artificial Metalloenzyme With Peroxygenase Activity. 2018 , 6, 590		18
132	OH-Radical Oxidation of Lung Surfactant Protein B on Aqueous Surfaces. 2018, 7, S0077		4
131	The Nature of High-Valent Oxometal Intermediates of Iron-Aminopyridine Mediated Oxidations. 2018 , 269-292		1
130	Investigation of propene oxidation to acrolein by the method of ultralow conversion: A new mechanism of the reaction. 2018 , 368, 315-323		2
129	A Dehydrogenase Dual Hydrogen Abstraction Mechanism Promotes Estrogen Biosynthesis: Can We Expand the Functional Annotation of the Aromatase Enzyme?. 2018 , 24, 10840-10849		18
128	Revealing the Structure and Reactivity of the Active Species in the FeCl2IIBHP System: Case Study on Alkene Oxidation. 2018 , 37, 1635-1640		5
127	Human Cytochrome CYP17A1: The Structural Basis for Compromised Lyase Activity with 17-Hydroxyprogesterone. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7324-7331	16.4	17
126	Hydrogen Peroxide and Metalloporphyrins in Oxidation Catalysis: Old Dogs with Some New Tricks. 2018 , 10, 3615-3635		28
125	Structure, Bonding, Reactivity and Spectral Features of Putative Nilll=O Species: A Theoretical Perspective. 2018 , 644, 790-800		2
124	The enzyme-like catalytic hydrogen abstraction reaction mechanisms of cyclic hydrocarbons with magnesium-diluted Fe-MOF-74 2019 , 9, 23622-23632		4
123	Fate of oxygen species from O activation at dimetal cofactors in an oxidase enzyme revealed by Fe nuclear resonance X-ray scattering and quantum chemistry. 2019 , 1860, 148060		1
122	Selective aerobic allylic oxidation of pinene catalyzed by metalloporphyrins in the absence of solvents and additives. 2019 , 43, 419-425		1
121	Enhanced Rates of C-H Bond Cleavage by a Hydrogen-Bonded Synthetic Heme High-Valent Iron(IV) Oxo Complex. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12558-12569	16.4	28

120	EPR spin trapping studies of H2O2 activation in metaloporphyrin catalyzed oxygenation reactions: Insights on the biomimetic mechanism. 2019 , 475, 110500	4
119	CO Reduction on an Iron-Porphyrin Center: A Computational Study. 2019 , 123, 6527-6535	22
118	Ab Initio Calculations for Spin-Gaps of Non-Heme Iron Complexes. 2019 , 15, 4297-4304	17
117	Photoinduced Dynamics of a Diazidocobalt(III) Complex Studied by Femtosecond UV-Pump/IR-to-Vis-Probe Spectroscopy. 2019 , 123, 7893-7904	8
116	Metallocofactors that Activate Small Molecules. 2019,	
115	Kinetic Studies on the Oxoiron(IV) Complex with Tetradentate Aminopyridine Ligand PDP*: Restoration of Catalytic Activity by Reduction with HO. 2019 , 58, 13382-13393	4
114	Dioxygen activation by a dinuclear thiolate-ligated Fe(ii) complex. <i>Dalton Transactions</i> , 2019 , 48, 379-3864.3	2
113	Non-heme oxoiron(V) intermediates in chemo-, regio- and stereoselective oxidation of organic substrates. 2019 , 384, 126-139	38
112	Hydrogen Donation but not Abstraction by a Tyrosine (Y68) during Endoperoxide Installation by Verruculogen Synthase (FtmOx1). <i>Journal of the American Chemical Society</i> , 2019 , 141, 9964-9979	14
111	Moving Through Barriers in Science and Life. 2019 , 88, 1-24	8
110	Electrochemical C-H oxygenation and alcohol dehydrogenation involving Fe-oxo species using water as the oxygen source. 2019 , 10, 7542-7548	28
109	Detection and identification of the oxidizing species generated from the physiologically important Fenton-like reaction of iron(II)-citrate with hydrogen peroxide. 2019 , 668, 39-45	5
108	The Role of the Pyranopterin Dithiolene Component of Moco in Molybdoenzyme Catalysis. 2019 , 101-151	1
107	Salicylate 5-Hydroxylase: Intermediates in Aromatic Hydroxylation by a Rieske Monooxygenase. 2019 , 58, 5305-5319	17
106	Studies of the Catalytic Activity of Iron (III) Porphyrins for the Protection of Carbonyl Groups in Homogeneous Media. 2019 , 9, 334	4
105	Diversity and Common Principles in Enzymatic Activation of Hydrocarbons: An Introduction. 2019 , 3-32	
104	Redox activity of nickel and vanadium porphyrins: a possible mechanism behind petroleum genesis and maturation?. 2019 , 9, 9509-9516	7
103	Tuning the Geometric and Electronic Structure of Synthetic High-Valent Heme Iron(IV)-Oxo Models in the Presence of a Lewis Acid and Various Axial Ligands. <i>Journal of the American Chemical Society</i> , 16.4 2019 , 141, 5942-5960	31

102	Can multiscale simulations unravel the function of metallo-enzymes to improve knowledge-based drug discovery?. 2019 , 11, 771-791	8
101	Electronic structure and reactivity of Fe(iv)oxo species in metal-organic frameworks. 2019 , 21, 4965-4974	6
100	Catalytic activity of porphyrin-catalyts immobilized on kaolinite. 2019 , 168, 469-477	9
99	Soluble Methane Monooxygenase. 2019 , 88, 409-431	67
98	Electron Paramagnetic Resonance Signature of Tetragonal Low Spin Iron(V)-Nitrido and -Oxo Complexes Derived from the Electronic Structure Analysis of Heme and Non-Heme Archetypes. Journal of the American Chemical Society, 2019, 141, 2421-2434	29
97	Fe complex immobilized on waste polypropylene fibers for fast degradation of Reactive Red 195 via enhanced activation of persulfate under LED visible irradiation. 2019 , 208, 1347-1356	13
96	Theory of chemical bonds in metalloenzymes XXII: a concerted bond-switching mechanism for the oxygenBxygen bond formation coupled with one electron transfer for water oxidation in the oxygen-evolving complex of photosystem II. 2019 , 117, 2320-2354	4
95	Aminoiron(III)porphyrinBlumina catalyst obtained by non-hydrolytic sol-gel process for heterogeneous oxidation of hydrocarbons. 2019 , 462, 114-125	14
94	Protonation-induced ligand distortion of spin-crossover complexes. 2019 , 102, 40-44	
93	Fabrication of iron-dipicolinamide catalyst with Fe-N bonds for enhancing non-radical reactive species under alkaline Fenton process. 2020 , 241, 125005	7
92	57Fe-Missbauer spectroscopy and basic interpretation of Missbauer parameters. 2020 , 201-228	7
91	A new synthesis of porphyrins via a putative trans-manganese(iv)-dihydroxide intermediate. <i>Dalton Transactions</i> , 2020 , 49, 1424-1432	4
90	Vibrations tell the tale. A time-resolved mid-infrared perspective of the photochemistry of iron complexes. <i>Dalton Transactions</i> , 2020 , 49, 256-266	10
89	Redox-Active Ligand Assisted Catalytic Water Oxidation by a RuIV=O Intermediate. 2020 , 132, 4029-4037	6
88	Redox-Active Ligand Assisted Catalytic Water Oxidation by a Ru =O Intermediate. 2020 , 59, 4000-4008	26
87	Spin-Forbidden Reactivity of Transition Metal Oxo Species: Exploring the Potential Energy Surfaces. 2020 , 26, 3080-3089	6
86	Energetics of non-heme iron reactivity: can ab initio calculations provide the right answer?. 2020 , 22, 23908-23919	6
85	Nature's Machinery, Repurposed: Expanding the Repertoire of Iron-Dependent Oxygenases. 2020 , 10, 12239-12255	20

84	Mechanistic insights into the allylic oxidation of aliphatic compounds by tetraamido iron(V) species: A Cℍ vs. Oℍ bond activation. 2020 , 44, 19103-19112		4
83	Fifty years of inorganic biochemistry: Developments, trends, highlights, impact and citations. <i>Journal of Inorganic Biochemistry</i> , 2020 , 212, 111230	4.2	3
82	Development of broken-symmetry (BS) methods in chemical reactions. A theoretical view of water oxidation in photosystem II and related systems. 2020 , 402, 112791		3
81	Generation and Oxidative Reactivity of a Ni(II) Superoxo Complex via Ligand-Based Redox Non-Innocence. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10824-10832	16.4	9
80	A Stable Homoleptic Organometallic Iron(IV) Complex. 2020, 26, 12728-12732		8
79	Iron- and cobalt-catalyzed C(sp)-H bond functionalization reactions and their application in organic synthesis. <i>Chemical Society Reviews</i> , 2020 , 49, 5310-5358	58.5	56
78	Molybdenum and Tungsten Cofactors and the Reactions They Catalyze. <i>Metal Ions in Life Sciences</i> , 2020 , 20,	2.6	3
77	Light-assisted cyclohexane oxidation catalysis by a manganese(III) porphyrin immobilized onto zinc hydroxide salt and zinc oxide obtained by zinc hydroxide salt hydrothermal decomposition. 2020 , 602, 117708		6
76	Iron Triflate Salts as Highly Active Catalysts for the Solvent-Free Oxidation of Cyclohexane. 2020 , 2020, 3552-3559		5
75	Photothermal and colorimetric dual mode detection of nanomolar ferric ions in environmental sample based on in situ generation of prussian blue nanoparticles. 2020 , 1105, 197-207		20
74	Structural basis of carnitine monooxygenase CntA substrate specificity, inhibition, and intersubunit electron transfer. 2021 , 296, 100038		6
73	Metal-Ligand Multiple Bonds With Group 9🛭 1 Metals. 2021 , 171-187		
72	Kinetic Analysis of H2O2 Activation by an Iron(III) Complex in Water Reveals a Nonhomolytic Generation Pathway to an Iron(IV)oxo Complex. 2021 , 11, 787-799		9
71	Insight into structural aspects and study of reaction kinetics of model [oxo(salen)iron(IV)] complexes with dipeptides. 2021 , 196, 114952		
70	To Rebound orRebound? Evidence for the Alternative Rebound Mechanism in CH Oxidations by the Systems Nonheme Mn Complex/H2O2/Carboxylic Acid. 2021 , 11, 5517-5524		13
69	Defining Pathways of Anaerobic Alkane Oxidation: Synthesis of Enantiomers of 4-Methylalkanoic Acids and (2-Methylalkyl)malonic Acids. 2021 , 6, 3976-3981		O
68	Polyoxometalate-Incorporated Framework as a Heterogeneous Catalyst for Selective Oxidation of C-H Bonds of Alkylbenzenes. 2021 , 60, 7753-7761		6
67	XFEL Crystal Structures of Peroxidase Compound II. 2021 , 60, 14578-14585		8

KFEL Crystal Structures of Peroxidase Compound II. **2021**, 133, 14699-14706

Computational study of ammonia generation by iron(III) and iron(IV) complexes supported by trigonal bipyramidal iron. 2021, 121, e26775 Iron(III) Complexation with Galactodendritic Porphyrin Species and HydrocarbonsIDxidative Transformations. 2021, 2021, 2857-2869 Large-Scale Green Synthesis of Porphyrins. 2021, 6, 22922-22936 Porphyrins with Phenolic Fragments at the Periphery of the Macrocycle as Perspective Antioxidants, Cytoprotectors and Heavy Metal Scavengers. 2021, 57, 875 Rapid Iron(III)-Fluoride-Mediated Hydrogen Atom Transfer. 2021, 60, 26281-26286 Rapid Iron(III)-Fluoride-Mediated Hydrogen Atom Transfer.	1 1 1
Transformations. 2021, 2021, 2857-2869 Large-Scale Green Synthesis of Porphyrins. 2021, 6, 22922-22936 Porphyrins with Phenolic Fragments at the Periphery of the Macrocycle as Perspective Antioxidants, Cytoprotectors and Heavy Metal Scavengers. 2021, 57, 875 Rapid Iron(III)-Fluoride-Mediated Hydrogen Atom Transfer. 2021, 60, 26281-26286 Rapid Iron(III)-Fluoride-Mediated Hydrogen Atom Transfer.	1
Porphyrins with Phenolic Fragments at the Periphery of the Macrocycle as Perspective Antioxidants, Cytoprotectors and Heavy Metal Scavengers. 2021, 57, 875 Rapid Iron(III)-Fluoride-Mediated Hydrogen Atom Transfer. 2021, 60, 26281-26286 Rapid Iron(III)Eluoride-Mediated Hydrogen Atom Transfer.	1
Antioxidants, Cytoprotectors and Heavy Metal Scavengers. 2021, 57, 875 Rapid Iron(III)-Fluoride-Mediated Hydrogen Atom Transfer. 2021, 60, 26281-26286 Rapid Iron(III)-Fluoride-Mediated Hydrogen Atom Transfer.	,
60 Rapid Iron(III)Eluoride-Mediated Hydrogen Atom Transfer.	4
Manager Cataland Cataland Cataland	О
59 Manganese-Catalyzed C?H Oxygenation Reactions. 2021 , 183-202	4
Natural and synthetic layered hydroxide salts (LHS): Recent advances and application perspectives emphasizing catalysis. 2021 , 64, 100335	4
Aspartate or arginine? Validated redox state X-ray structures elucidate mechanistic subtleties of Fe = O formation in bacterial dye-decolorizing peroxidases. 2021 , 26, 743-761	2
Short time biomimetic oxidation of styrene with aqueous hydrogen peroxide: Crucial roles played by acetic acid. 2021 , 207, 115377	
Non-hydrolytic sol-gel synthesis of mesoporous iron-aluminum oxide and their properties in the oxidation of hydrocarbons by hydrogen peroxide. 2021 , 325, 111317	Ο
54 Structure, Function, and Mechanism of Pyranopterin Molybdenum and Tungsten Enzymes. 2021 , 790-811	1
53 Functional Models for Oxygen Activating Nonheme Monoiron Enzymes. 2021 , 378-411	1
Electronic structures, bonding, and spin state energetics of biomimetic mononuclear and bridged dinuclear iron complexes: a computational examination. 2021 , 32, 1473-1488	3
51 Diversity and Common Principles in Enzymatic Activation of Hydrocarbons. 2010 , 981-1009	17
Oxidative DNA damage mediated by transition metal ions and their complexes. <i>Metal Ions in Life Sciences</i> , 2012 , 10, 201-16	19
Mechanistic dichotomies in redox reactions of mononuclear metal-oxygen intermediates. <i>Chemical</i> Society Reviews, 2020 , 49, 8988-9027	35

48	Cytochrome P450 enzymes: understanding the biochemical hieroglyphs. F1000Research, 4, 178	3.6	9
47	DFT Study of the Entire Reaction Cycle of H2O2 Decomposition and O2 Generation Catalyzed by Fenton Reagent. <i>Chemistry Journal of Moldova</i> , 2019 , 14, 88-97	0.9	2
46	Environment friendly spin-catalysis for dioxygen activation. <i>Chemistry and Chemical Technology</i> , 2010 , 4, 1-16	0.9	13
45	Bioinspired mononuclear Mn complexes for O activation and biologically relevant reactions. <i>Dalton Transactions</i> , 2021 , 50, 16871-16886	4.3	1
44	Oxygen-Activating Enzymes, Chemistry of. 1		
43	10.1007/s11171-008-2006-у. 2010 ,		
42	The Role of Metals. 2010 , 1025-1044		
41	Iron, cysteine and neurodegeneration during Parkinson disease. 2012 , 41-46		1
40	TIMENmes: An Iron Nitride Complex. Springer Theses, 2012, 19-51	0.1	
39	Detection and Characterization of Heme-Thiolate Compound II from AaeAPO PeroxygenaseOpen image in new window. <i>Springer Theses</i> , 2016 , 91-111	0.1	
38	Hydrocarbon Oxygenation by Heme-Thiolate EnzymesOpen image in new window. <i>Springer Theses</i> , 2016 , 1-21	0.1	
37	Encyclopedia of Signaling Molecules. 2016 , 1-18		
36	Diversity and Common Principles in Enzymatic Activation of Hydrocarbons: An Introduction. 2016 , 1-30)	
35	Nanostructured Semiconducting Materials for Water Splitting. <i>Electrochemical Energy Storage and Conversion</i> , 2017 , 291-351		
34	Encyclopedia of Signaling Molecules. 2018 , 1288-1305		
33	Acute toxicity of the iron clathrochelate complexes. <i>Regulatory Mechanisms in Biosystems</i> , 2019 , 10, 27	6-2. 7/ 9	2
32	Bindungen aktivieren und Redoxreaktionen. <i>Nachrichten Aus Der Chemie</i> , 2019 , 67, 67-71	0.1	
31	Radical Reactions and Their Application for Water Treatment. <i>Applied Environmental Science and Engineering for A Sustainable Future</i> , 2020 , 203-219	0.5	

30	High-valent iron-oxo species mediated cyclic oxidation through single-atom Fe-N6 sites with high peroxymonosulfate utilization rate. <i>Applied Catalysis B: Environmental</i> , 2022 , 305, 121049	21.8	2
29	Aqueous Iron(IV)-Oxo Complex: An Emerging Powerful Reactive Oxidant Formed by Iron(II)-Based Advanced Oxidation Processes for Oxidative Water Treatment <i>Environmental Science & amp; Technology</i> , 2022 ,	10.3	9
28	Following Nature's Footprint: Mimicking the High-Valent Heme-Oxo Mediated Indole Monooxygenation Reaction Landscape of Heme Enzymes <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	2
27	Catalytic properties of the ferryl ion in the solid state: a computational review. <i>Catalysis Science and Technology</i> ,	5.5	
26	Heterometallic iron(IV) Ehitrido complexes supported by a tetradentate Schiff base ligand. <i>Journal of Organometallic Chemistry</i> , 2022 , 122354	2.3	О
25	M(II)-Al-Fe layered double hydroxides synthesized from aluminum saline slag wastes and catalytic performance on cyclooctene oxidation. <i>Minerals Engineering</i> , 2022 , 180, 107516	4.9	O
24	Data_Sheet_1.PDF. 2018 ,		
23	Fenton Processes in Dye Removal. Sustainable Textiles, 2022, 21-36	1.1	
22	A History of the Fenton Reactions (Fenton Chemistry for Beginners). <i>Biochemistry</i> ,		1
21	Oxygen reduction reaction in nature and its importance in life. 2022 , 1-43		
20	Coordination Chemistry. 2022, 141-240		1
19	Spin States in Iron Porphyrins. 2022 , 631-659		1
18	Resonance Raman spectroscopy of pyranopterin molybdenum enzymes. <i>Journal of Inorganic Biochemistry</i> , 2022 , 111907	4.2	
17	Identification of a cobalt(IV) bxo intermediate as an active oxidant in catalytic oxidation reactions. Bulletin of the Korean Chemical Society,	1.2	
16	What are inorganic nanozymes? Artificial or inorganic enzymes. 2022 , 46, 15273-15291		0
15	Catalytic Reactivity Supported by Redox-Active Ligands Framing: A Mini Review.		
14	Bioactive nutraceutical ligands and their efficiency to chelate elemental iron of varying dynamic oxidation states to mitigate associated clinical conditions. 1-27		
13	Cooperation of multiple active species generated in hydrogen peroxide activation by iron porphyrin for phenolic pollutants degradation. 2022 , 313, 120097		O

12	Photocatalytic Generation of a Non-Heme Fe(III)-Hydroperoxo Species with O2 in Water for Oxygen Atom Transfer Reaction.	0
11	ជreen-to-Green⊡ron Oxides Embedded in Lignin-Based Carbon Scaffolds for Water Remediation Via Oxidation Excluding Free-Radical Pathways.	O
10	Ferryl for real. The Fenton reaction near neutral pH.	O
9	17O Electron Nuclear Double Resonance Analysis of Compound I: Inverse Correlation between Oxygen Spin Population and Electron Donation. 2022 , 144, 19272-19283	1
8	Zeolite Incorporated Copper-Schiff Base Complex: Synthesis, Characterization and Heterogeneous Catalytic Oxidation. 2022 , 34, 3125-3131	0
7	High-Valent Oxomanganese Complexes of Relevance in Oxyfunctionalization of Hydrocarbons. 1-36	О
6	Cleavable collagenase-assistant nanosonosensitizer for tumor penetration and sonodynamic therapy. 2023 , 293, 121992	0
5	Neurotoxicity of iron (Fe) in Drosophila and the protective roles of natural products. 2023,	О
4	Solvent isotope effects in the catalytic cycle of P450 CYP17A1: Computational modeling of the hydroxylation and lyase reactions. 2023 , 243, 112202	O
3	Evidence for a High-Valent Iron-Fluoride That Mediates Oxidative C(sp3)-H Fluorination. 2023 , 3, 919-928	O
2	Metalloporphyrin-based multifunctional catalysts for one-pot assisted Tandem reaction. 2023 , 541, 113080	0
1	Non-Noble Metal Aromatic Oxidation Catalysis: From Metalloenzymes to Synthetic Complexes. 2023 , 13, 773	О