Frédéric Banse

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Tale of Two Complexes: Electroâ€Assisted Oxidation of Thioanisole by an "O ₂ Activator/Oxidizing Species―Tandem System of Nonâ€Heme Iron Complexes. Chemistry - A European Journal, 2022, 28, .	3.3	6
2	Modulating alkene reactivity from oxygenation to halogenation <i>via</i> electrochemical O ₂ activation by Mn porphyrin. Chemical Communications, 2021, 57, 1198-1201.	4.1	5
3	Second-sphere effects on H ₂ O ₂ activation by non-heme Fe ^{II} complexes: role of a phenol group in the [H ₂ O ₂]-dependent accumulation of Fe ^{IV} O <i>vs.</i> Fe ^{III} OOH. Chemical Science, 2021, 12, 15691-15699.	7.4	2
4	Hydroxylation of Aromatics by H 2 O 2 Catalyzed by Mononuclear Nonâ€heme Iron Complexes: Role of Triazole Hemilability in Substrateâ€induced Bifurcation of the H 2 O 2 Activation Mechanism. Chemistry - A European Journal, 2020, 26, 659-668.	3.3	15
5	Directing the solid-state photochromic and luminescent behaviors of spiromolecules with Dawson and Anderson polyoxometalate units. Journal of Materials Chemistry C, 2020, 8, 637-649.	5.5	16
6	Sequential installation of Fe(<scp>ii</scp>) complexes in MOFs: towards the design of solvatochromic porous solids. Journal of Materials Chemistry C, 2020, 8, 16826-16833.	5.5	11
7	Fe ^{III} and Fe ^{II} Phosphasalen Complexes: Synthesis, Characterization, and Catalytic Application for 2â€Naphthol Oxidative Coupling. Chemistry - A European Journal, 2020, 26, 13634-13643.	3.3	5
8	Nonâ€Heme Fe ^{II} Diastereomeric Complexes Bearing a Hexadentate Ligand: Unexpected Consequences for the Spin State and Catalytic Oxidation Properties. Chemistry - A European Journal, 2019, 25, 12405-12411.	3.3	7
9	A Reversible Electron Relay to Exclude Sacrificial Electron Donors in the Photocatalytic Oxygen Atom Transfer Reaction with O ₂ in Water. Angewandte Chemie - International Edition, 2019, 58, 16023-16027.	13.8	20
10	A Reversible Electron Relay to Exclude Sacrificial Electron Donors in the Photocatalytic Oxygen Atom Transfer Reaction with O 2 in Water. Angewandte Chemie, 2019, 131, 16169-16173.	2.0	3
11	Bioinspired molecular catalysts for homogenous electrochemical activation of dioxygen. Current Opinion in Electrochemistry, 2019, 15, 118-124.	4.8	12
12	Base-controlled mechanistic divergence between iron(<scp>iv</scp>)-oxo and iron(<scp>iii</scp>)-hydroperoxo in the H ₂ O ₂ activation by a nonheme iron(<scp>ii</scp>) complex. Dalton Transactions, 2019, 48, 17045-17051.	3.3	14
13	Selective Formation of an Fe ^{IV} O or an Fe ^{III} OOH Intermediate From Iron(II) and H ₂ O ₂ : Controlled Heterolytic versus Homolytic Oxygen–Oxygen Bond Cleavage by the Second Coordination Sphere. Angewandte Chemie - International Edition, 2019, 58, 854.858	13.8	54
14	Selective Formation of an Fe ^{IV} O or an Fe ^{III} OOH Intermediate From Iron(II) and H ₂ O ₂ : Controlled Heterolytic versus Homolytic Oxygen–Oxygen Bond Cleavage by the Second Coordination Sphere. Angewandte Chemie, 2019, 131, 864-868.	2.0	25
15	Mimicking the Regulation Step of Feâ€Monooxygenases: Allosteric Modulation of Fe ^{IV} â€Oxo Formation by Guest Binding in a Dinuclear Zn ^{II} –Fe ^{II} Calix[6]areneâ€Based Funnel Complex. Chemistry - A European Journal, 2017, 23, 2894-2906.	3.3	4
16	Synthesis and Characterization of Iron(II) Complexes with a BPMENâ€Type Ligand Bearing Ï€â€Accepting Nitro Groups. European Journal of Inorganic Chemistry, 2017, 2017, 3057-3063.	2.0	4
17	Imidazolidine Ring Cleavage upon Complexation with First-Row Transition Metals. European Journal of Inorganic Chemistry, 2017, 2017, 3884-3891.	2.0	6
18	Arene activation by a nonheme iron(III)–hydroperoxo complex: pathways leading to phenol and ketone products. Journal of Biological Inorganic Chemistry, 2016, 21, 453-462.	2.6	16

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19	Characterization and Subsequent Reactivity of an Fe-Peroxo Porphyrin Generated by Electrochemical Reductive Activation of O ₂ . Inorganic Chemistry, 2016, 55, 12204-12210.	4.0	31
20	Self-assembled monolayer formation of a (N ₅)Fe(<scp>ii</scp>) complex on gold electrodes: electrochemical properties and coordination chemistry on a surface. Dalton Transactions, 2016, 45, 19053-19061.	3.3	1
21	Oxidation catalysis via visible-light water activation of a [Ru(bpy) ₃] ²⁺ chromophore BSA–metallocorrole couple. Dalton Transactions, 2016, 45, 706-710.	3.3	18
22	An Artificial Enzyme Made by Covalent Grafting of an Fe ^{II} Complex into βâ€Lactoglobulin: Molecular Chemistry, Oxidation Catalysis, and Reactionâ€Intermediate Monitoring in a Protein. Chemistry - A European Journal, 2015, 21, 12188-12193.	3.3	20
23	Successive light-induced two electron transfers in a Ru–Fe supramolecular assembly: from Ru–Fe(<scp>ii</scp>)–OH ₂ to Ru–Fe(<scp>iv</scp>)–oxo. Chemical Science, 2015, 6, 2323-2327.	7.4	24
24	Differences and Comparisons of the Properties and Reactivities of Iron(III)–hydroperoxo Complexes with Saturated Coordination Sphere. Chemistry - A European Journal, 2015, 21, 1221-1236.	3.3	67
25	Electrochemical study of a nonheme Fe(<scp>ii</scp>) complex in the presence of dioxygen. Insights into the reductive activation of O ₂ at Fe(<scp>ii</scp>) centers. Chemical Science, 2015, 6, 639-647.	7.4	35
26	Confinement of a bioinspired nonheme Fe(ii) complex in 2D hexagonal mesoporous silica with metal site isolation. Dalton Transactions, 2013, 42, 11607.	3.3	9
27	Iron Coordination Chemistry with New Ligands Containing Triazole and Pyridine Moieties. Comparison of the Coordination Ability of the N-Donors. Inorganic Chemistry, 2013, 52, 691-700.	4.0	46
28	Hydroxylation of Aromatics with the Help of a Nonâ€Haem FeOOH: A Mechanistic Study under Singleâ€Turnover and Catalytic Conditions. Chemistry - A European Journal, 2012, 18, 2715-2724.	3.3	94
29	Activation of dioxygen by a mononuclear non-heme iron complex: characterization of a Felll(OOH) intermediate. Dalton Transactions, 2010, 39, 1630-1634.	3.3	40
30	Mononuclear iron complexes relevant to nonheme iron oxygenases. Synthesis, characterizations and reactivity of Fe-Oxo and Fe-Peroxo intermediates. Dalton Transactions, 2009, , 9587.	3.3	44
31	Preparation and Characterization of a Microcrystalline Nonâ€Heme Fe ^{III} (OOH) Complex Powder: EPR Reinvestigation of Fe ^{III} (OOH) Complexesâ€"Improvement of the Perturbation Equations for the <i>g</i> Tensor of Lowâ€5pin Fe ^{III} . Chemistry - A European Journal, 2008, 14. 3182-3188.	3.3	38
32	Proton―and Reductantâ€Assisted Dioxygen Activation by a Nonheme Iron(II) Complex to Form an Oxoiron(IV) Intermediate. Angewandte Chemie - International Edition, 2008, 47, 7064-7067.	13.8	155
33	Non-heme iron polyazadentate complexes as catalysts for aromatic hydroxylation by H2O2: Particular efficiency of tetrakis(2-pyridylmethyl)ethylenediamine–iron(II) complexes. Journal of Molecular Catalysis A, 2008, 287, 115-120.	4.8	51
34	Fe(II) Mononuclear Complexes with a New Aminopyridyl Ligand Bearing a Pivaloylamido Arm. Preparation and Spectroscopic Characterizations of a FeIII-Hydroperoxo Complex with Oxygen and Nitrogen Donors. Inorganic Chemistry, 2007, 46, 1709-1717.	4.0	37
35	New Example of a Non-Heme Mononuclear Iron(IV) Oxo Complex. Spectroscopic Data and Oxidation Activity. Inorganic Chemistry, 2005, 44, 9592-9596.	4.0	109
36	Non-heme iron polyazadentate complexes as catalysts for oxidations by H2O2: particular efficiency in aromatic hydroxylations and beneficial effects of a reducing agent. Journal of Molecular Catalysis A, 2004, 215, 81-87.	4.8	51

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37	Spectroscopic Characterization of an FeIV Intermediate Generated by Reaction of XOâ^' (X = Cl, Br) with an FeII Complex Bearing a Pentadentate Non-Porphyrinic Ligandâ^' Hydroxylation and Epoxidation Activity. European Journal of Inorganic Chemistry, 2004, 2004, 301-308.	2.0	89
38	Iron Complexes Containing the Ligand N,N-Bis(6-methyl-2-pyridylmethyl)-N,N-bis(2-pyridylmethyl)ethane-1,2-diamine: Structural, Spectroscopic, and Electrochemical Studies, Reactivity with Hydrogen Peroxide and the Formation of a Low-Spin Feâ^'OOH Complex, European Journal of Inorganic Chemistry, 2003, 2003, 2529-2535.	2.0	36
39	Fe(II) and Fe(III) Mononuclear Complexes with a Pentadentate Ligand Built on the 1,3-Diaminopropane Unit. Structures and Spectroscopic and Electrochemical Properties. Reaction with H2O2. Inorganic Chemistry, 2003, 42, 2470-2477.	4.0	56
40	Bio-inspired iron catalysts for degradation of aromatic pollutants and alkane hydroxylation. Comptes Rendus Chimie, 2002, 5, 99-109.	0.5	32
41	The Electronic Structure of Non-Heme Iron(III)â ^{°°} Hydroperoxo and Iron(III)â ^{°°} Peroxo Model Complexes Studied by MA¶ssbauer and Electron Paramagnetic Resonance Spectroscopies. Inorganic Chemistry, 2001, 40, 6538-6540.	4.0	64
42	FeIII-Hydroperoxo and Peroxo Complexes with Aminopyridyl Ligands and the Resonance Raman Spectroscopic Identification of the Feâ^'O and Oâ^'O Stretching Modes. European Journal of Inorganic Chemistry, 2000, 2000, 1627-1633.	2.0	93
43	Characterization and Properties of Non-Heme Iron Peroxo Complexes. Structure and Bonding, 2000, , 145-177.	1.0	119
44	Characterization of a Nonheme Mononuclear Peroxoiron(III) Intermediate by UV/Vis and EPR Spectroscopy and Mass Spectrometry. European Journal of Inorganic Chemistry, 1999, 1999, 993-996.	2.0	44
45	Structures of Fe(II) Complexes withN,N,Nâ€~-Tris(2-pyridylmethyl)ethane-1,2-diamine Type Ligands. Bleomycin-like DNA Cleavage and Enhancement by an Alkylammonium Substituent on the Nâ€~ Atom of the Ligand. Inorganic Chemistry, 1999, 38, 1085-1092.	4.0	116