Kaustuv Mittra

List of Publications by Year
in descending order

21	618	623574	752573
papers	citations	14 h-index	20 g-index

21	21	21	683
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selective four electron reduction of O2 by an iron porphyrin electrocatalyst under fast and slow electron fluxes. Chemical Communications, 2012, 48, 7631.	2.2	101
2	Selective 4e^{â€“}/4H⁺ O₂ Reduction by an Iron(tetraferrocenyl)Porphyrin Complex: From Proton Transfer Followed by Electron Transfer in Organic Solvent to Proton Coupled Electron Transfer in Aqueous Medium. Inorganic Chemistry, 2013, 52, 14317-14325.	1.9	76
3	Second Sphere Control of Redox Catalysis: Selective Reduction of O₂ to O₂^{â€“} or H₂O by an Iron Porphyrin Catalyst. Inorganic Chemistry, 2013, 52, 1443-1453.	1.9	64
4	Effects of Noncovalent Interactions on High-Spin Fe(IV)â€“Oxido Complexes. Journal of the American Chemical Society, 2020, 142, 11804-11817.	6.6	53
5	Reduction Potentials of P450 Compounds I and II: Insight into the Thermodynamics of Câ€“H Bond Activation. Journal of the American Chemical Society, 2019, 141, 5504-5510.	6.6	51
6	A hydrogen bond scaffold supported synthetic heme FeIIIâ€“O2â˜ adduct. Chemical Communications, 2012, 48, 10535.	2.2	46
7	Elucidation of Factors That Govern the 2e^{â€“}/2H⁺ vs 4e^{â€“}/4H⁺ Selectivity of Water Oxidation by a Cobalt Corrole. Journal of the American Chemical Society, 2020, 142, 21040-21049.	6.6	44
8	Dioxygen bound cobalt corroles. Chemical Communications, 2017, 53, 877-880.	2.2	24
9	Spectroscopic characterization of a phenolate bound Fe^{II}â€“O₂adduct: gauging the relative â€œpushâ€•effect of a phenolate axial ligand. Chemical Communications, 2014, 50, 5218-5220.	2.2	21
10	Effect of Axial Ligand, Spin State, and Hydrogen Bonding on the Inner-Sphere Reorganization Energies of Functional Models of Cytochrome P450. Inorganic Chemistry, 2014, 53, 10150-10158.	1.9	21
11	Second sphere control of spin state: Differential tuning of axial ligand bonds in ferric porphyrin complexes by hydrogen bonding. Journal of Inorganic Biochemistry, 2016, 155, 82-91.	1.5	20
12	Ascorbate Peroxidase Compound II Is an Iron(IV) Oxo Species. Journal of the American Chemical Society, 2020, 142, 20419-20425.	6.6	20
13	Mechanism of Reduction of Ferric Porphyrins by Sulfide: Identification of a Low Spin Fe^{III}â€“SH Intermediate. Inorganic Chemistry, 2017, 56, 3916-3925.	1.9	17
14	Analogues of oxy-heme AÎ²: reactive intermediates relevant to Alzheimer's disease. Chemical Communications, 2013, 49, 1091.	2.2	15
15	Effect of hydrogen bonding on innocent and non-innocent axial ligands bound to iron porphyrins. Dalton Transactions, 2019, 48, 7179-7186.	1.6	14
16	Iron porphyrins with a hydrogen bonding cavity: effect of weak interactions on their electronic structure and reactivity. Dalton Transactions, 2016, 45, 18796-18802.	1.6	12
17	Artificial Iron Proteins: Modeling the Active Sites in Non-Heme Dioxygenases. Inorganic Chemistry, 2020, 59, 6000-6009.	1.9	10
18	Photophysical and ligand binding studies of metalloporphyrins bearing hydrophilic distal superstructure. Journal of Porphyrins and Phthalocyanines, 2013, 17, 210-219.	0.4	5

#	Article	IF	Citations
19	Synthetic heme dioxygen adducts: electronic structure and reactivity. Trends in Chemistry, 2022, 4, 15-31.	4.4	3
20	NRVS investigation of ascorbate peroxidase compound II: Observation of Iron(IV)oxo stretching. Journal of Inorganic Biochemistry, 2021, 224, 111548.	1.5	1
21	Oxygen reduction reaction by metalloporphyrins. , 2022, , 45-77.		0