Stephen P Best

List of Publications by Year
in descending order

47 papers	1,828 citations	331670 21 h-index	254184 43 g-index
50 all docs	50 docs citations	50 times ranked	1257 citing authors

#	Article	IF	Citations
1	Impact of the 2Fe2P core geometry on the reduction chemistry of phosphido-bridged diiron hexacarbonyl compoundsâ€. Australian Journal of Chemistry, 2022, , .	0.9	1
2	Investigation of biological activity of nickel (II) complex with naproxen and 1,10-phenanthroline ligands. Journal of Biomolecular Structure and Dynamics, 2021, 39, 6939-6954.	3.5	3
3	Redox state and photoreduction control using X-ray spectroelectrochemical techniques â€" advances in design and fabrication through additive engineering. Journal of Synchrotron Radiation, 2021, 28, 472-479.	2.4	2
4	Macroradical enables electrical conduction in epoxy thermoset. Polymer, 2021, 230, 124046.	3.8	5
5	Dominance of eclipsed ferrocene conformer in solutions revealed by the IR spectra between 400 and 500 cm-1. Radiation Physics and Chemistry, 2021, 188, 109590.	2.8	2
6	Electron Delocalization in Spectroelectrochemically and Computationally Characterized [Pt{(<i>p</i>-BrC₆F₄)NCHâ•C(Cl)NEt₂}Cl(py)]⁺ Formed by Electrochemical Oxidation of [Pt^{II}{(<i>p</i>-BrC₆F₄)NCHâ•C(Cl)NEt₂}Cl(py)]. Inorganic Chemistry, 2021, 60, 18899-18911.	4.0	1
7	Neutral, Anionic, and Paramagnetic 1,3,2-Diazaberyllacyles Derived from Reduced 1,4-Diazabutadienes. Organometallics, 2020, 39, 4208-4213.	2.3	11
8	Electronic Communication between Dithiolato-Bridged Diiron Carbonyl and S-Bridged Redox-Active Centres. Inorganics, 2019, 7, 37.	2.7	3
9	The nature and origin of pigments in black opal from Lightning Ridge, New South Wales, Australia. Australian Journal of Earth Sciences, 2019, 66, 1027-1039.	1.0	4
10	Application of the â€˜Spikingâ€™ method to the measurement of low dose radiation (â‰ 1 Gy) using alanine dosimeters. Applied Radiation and Isotopes, 2018, 133, 111-116.	1.5	3
11	Structural Insight into Redox Dynamics of Copper Bound N-Truncated Amyloid-Î² Peptides from <i>in Situ</i> X-ray Absorption Spectroscopy. Inorganic Chemistry, 2018, 57, 11422-11435.	4.0	25
12	Methods and methodology for FTIR spectral correction of channel spectra and uncertainty, applied to ferrocene. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 177, 86-92.	3.9	7
13	The effects of gold nanoparticles concentrations and beam quality/LET on dose enhancement when irradiated with X-rays and protons using alanine/EPR dosimetry. Radiation Measurements, 2017, 106, 352-356.	1.4	11
14	Conformation Analysis of Ferrocene and Decamethylferrocene via Full-Potential Modeling of XANES and XAFS Spectra. Journal of Physical Chemistry Letters, 2016, 7, 2792-2796.	4.6	13
15	Accurate X-ray Absorption Spectra of Dilute Systems: Absolute Measurements and Structural Analysis of Ferrocene and Decamethylferrocene. Journal of Physical Chemistry C, 2016, 120, 9399-9418.	3.1	20
16	Reinterpretation of Dynamic Vibrational Spectroscopy to Determine the Molecular Structure and Dynamics of Ferrocene. Chemistry - A European Journal, 2016, 22, 18019-18026.	3.3	13
17	XAS spectroelectrochemistry: reliable measurement of X-ray absorption spectra from redox manipulated solutions at room temperature. Journal of Synchrotron Radiation, 2016, 23, 743-750.	2.4	16
18	Polymerisation effects in the extraction of Co(II) into polymer inclusion membranes containing Cyanex 272. Structural studies of the Cyanex 272â€"Co(II) complex. Journal of Membrane Science, 2016, 497, 377-386.	8.2	13

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19	Structural investigation of m<i>M</i>Ni(II) complex isomers using transmission XAFS: the significance ofÂmodel development. Journal of Synchrotron Radiation, 2015, 22, 1475-1491.	2.4	10
20	A Heteroaromatically Functionalized Hexamolybdate. Inorganics, 2015, 3, 82-100.	2.7	7
21	Determination of dose enhancement caused by gold-nanoparticles irradiated with proton, X-rays (kV) Tj ETQq1 1 0.784314 rgBT /Overlo	1.4	27
22	High-accuracy X-ray absorption spectra from m<i>M</i>solutions of nickel (II) complexes with multiple solutions using transmission XAS. Journal of Synchrotron Radiation, 2015, 22, 1008-1021.	2.4	14
23	Stereochemical analysis of ferrocene and the uncertainty of fluorescence XAFS data. Journal of Synchrotron Radiation, 2012, 19, 145-158.	2.4	27
24	XAFS and DFT Characterisation of Protonated Reduced Fe Hydrogenase Analogues and Their Implications for Electrocatalytic Proton Reduction. European Journal of Inorganic Chemistry, 2011, 2011, 1128-1137.	2.0	13
25	Applications of X-ray absorption spectroscopy to biologically relevant metal-based chemistry. Radiation Physics and Chemistry, 2010, 79, 185-194.	2.8	14
26	Microanalysis of artworks: IR microspectroscopy of paint cross-sections. Vibrational Spectroscopy, 2010, 53, 77-82.	2.2	11
27	Electrocatalysis of hydrogen evolution by synthetic diiron units using weak acids as the proton source: Pathways of doubtful relevance to enzymic catalysis by the diiron subsite of [FeFe] hydrogenase. Comptes Rendus Chimie, 2008, 11, 852-860.	0.5	48
28	Modeling [Feâ˘Fe] Hydrogenase:â€‰ Evidence for Bridging Carbonyl and Distal Iron Coordination Vacancy in an Electrocatalytically Competent Proton Reduction by an Iron Thiolate Assembly That Operates through Fe(0)â˘Fe(II) Levels. Journal of the American Chemical Society, 2007, 129, 11085-11092.	13.7	114
29	Steps along the Path to Dihydrogen Activation at [FeFe] Hydrogenase Structural Models:Â Dependence of the Core Geometry on Electrocatalytic Proton Reduction. Inorganic Chemistry, 2007, 46, 1741-1750.	4.0	59
30	Assignment of Molecular Structures to the Electrochemical Reduction Products of Diiron Compounds Related to [Feâ˘Fe] Hydrogenase:Â A Combined Experimental and Density Functional Theory Study. Inorganic Chemistry, 2007, 46, 384-394.	4.0	73
31	On the structure of a proposed mixed-valent analogue of the diiron subsite of [FeFe]-hydrogenase. Chemical Communications, 2007, , 4348.	4.1	56
32	Integration of EXAFS, Spectroscopic, and DFT Techniques for Elucidation of the Structure of Reactive Diiron Compounds. Australian Journal of Chemistry, 2006, 59, 263.	0.9	13
33	XAFS of short-lived reduction products of structural and functional models of the [Feâ€"Fe] hydrogenase H-cluster. Radiation Physics and Chemistry, 2006, 75, 1878-1883.	2.8	5
34	Electrocatalytic proton reduction by dithiolate-bridged diiron carbonyl complexes: a connection to the H-cluster?. Biochemical Society Transactions, 2005, 33, 3-6.	3.4	21
35	Spectroelectrochemistry of hydrogenase enzymes and related compounds. Coordination Chemistry Reviews, 2005, 249, 1536-1554.	18.8	78
36	Electron Transfer at a Dithiolate-Bridged Diiron Assembly:Â Electrocatalytic Hydrogen Evolution. Journal of the American Chemical Society, 2004, 126, 16988-16999.	13.7	303

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37	Synergic Binding of Carbon Monoxide and Cyanide to the FeMo Cofactor of Nitrogenase: Relic Chemistry of an Ancient Enzyme?. Chemistry - A European Journal, 2004, 10, 4770-4776.	3.3	27
38	Electrocatalytic Proton Reduction by Phosphido-Bridged Diiron Carbonyl Compounds:Â Distant Relations to the H-Cluster?. Inorganic Chemistry, 2004, 43, 5635-5644.	4.0	75
39	Electron-Transfer Chemistry of the Ironâ€"Molybdenum Cofactor of Nitrogenase: Delocalized and Localized Reduced States of FeMoco which Allow Binding of Carbon Monoxide to Iron and Molybdenum. Chemistry - A European Journal, 2003, 9, 76-87.	3.3	56
40	Transient FTIR spectroelectrochemical and stopped-flow detection of a mixed valence {Fe(i)â€"Fe(ii)} bridging carbonyl intermediate with structural elements and spectroscopic characteristics of the di-iron sub-site of all-iron hydrogenase. Chemical Communications, 2002, , 700-701.	4.1	94
41	Spectroelectrochemical cell for the study of interactions between redox-activated species and moderate pressures of gaseous substrates. Journal of Electroanalytical Chemistry, 2002, 535, 57-64.	3.8	23
42	Molecular Features of CoIII Tetra- and Pentammines Affect Their Influence on DNA Structure. European Journal of Inorganic Chemistry, 2001, 2001, 2311-2316.	2.0	12
43	Title is missing!. Australian Journal of Chemistry, 2001, 54, 705.	0.9	10
44	A di-iron dithiolate possessing structural elements of the carbonyl/cyanide sub-site of the H-centre of Fe-only hydrogenase. Chemical Communications, 1999, , 2285-2286.	4.1	235
45	Infrared spectroelectrochemical studies of bis(1,2-dithiolene) complexes of transition metals. Journal of the Chemical Society Dalton Transactions, 1993, , 2267.	1.1	28
46	Non-destructive pigment analysis of artefacts by Raman microscopy. Endeavour, 1992, 16, 66-73.	0.4	160
47	Infrared reflection absorption spectroâ€electrochemical cell for the in situ study of redoxâ€active species at variable temperature. Review of Scientific Instruments, 1987, 58, 2071-2074.	1.3	38