

# Stephen B Colbran

## List of Publications by Year in descending order

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73  
papers

1,459  
citations

304743

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77  
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docs citations

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times ranked

1814  
citing authors

#	ARTICLE	IF	CITATIONS
1	The coordination chemistry of organo-hydride donors: new prospects for efficient multi-electron reduction. <i>Chemical Society Reviews</i> , 2013, 42, 5439.	38.1	131
2	Chemical and electrochemical syntheses, and characterization of poly(2,5-dimethoxyaniline) (PDMA): a novel, soluble, conducting polymer. <i>Synthetic Metals</i> , 1994, 62, 179-186.	3.9	56
3	Ruthenium Phthalocyanine-Bipyridyl Dyads as Sensitizers for Dye-Sensitized Solar Cells: Dye Coverage versus Molecular Efficiency. <i>Inorganic Chemistry</i> , 2009, 48, 3215-3227.	4.0	54
4	Electron transfer in organometallic clusters. 2. Ferrocene-tricobalt carbon cluster compounds with multiple redox sites. <i>Organometallics</i> , 1983, 2, 943-951.	2.3	52
5	Optical and Redox Properties of Ruthenium Phthalocyanine Complexes Tuned with Axial Ligand Substituents. <i>Inorganic Chemistry</i> , 2007, 46, 2805-2813.	4.0	46
6	Tridentate pyridine-pyrrolide chelate ligands: An under-appreciated ligand set with an immensely promising coordination chemistry. <i>Coordination Chemistry Reviews</i> , 2018, 375, 285-332.	18.8	46
7	Could Redox-Switched Binding of a Redox-Active Ligand to a Copper(II) Centre Drive a Conformational Proton Pump Gate? A Synthetic Model Study. <i>Chemistry - A European Journal</i> , 2003, 9, 116-129.	3.3	43
8	Complexes of New Electrochemically-Active p-Quinonyl-/p-hydroquinonylphosphines: Multiple Electron/Proton Transfer Reactions and Electrochemical/pH Control of p-Quinonyl-/p-Hydroquinonyl o-Oxygen Atom Coordination. <i>Inorganic Chemistry</i> , 1995, 34, 761-762.	4.0	41
9	Covalently Linked Ferrocenyl Quinones: Proton-Dependent Redox Behavior and Charge Redistribution. <i>Organometallics</i> , 2006, 25, 2216-2224.	2.3	38
10	Electron transfer in organometallic clusters. 3. Electron transfer and mixed-valence properties of substituted ferrocene-tricobalt carbon clusters. <i>Organometallics</i> , 1983, 2, 952-957.	2.3	37
11	Copper complexes with ferrocenyl pendants: Evidence for an $\text{Fe}^{\text{II}} \rightleftharpoons \text{Cu}^{\text{I}} \rightleftharpoons \text{Fe}^{\text{III}} \rightleftharpoons \text{Cu}^{\text{I}}$ electron transfer equilibrium leading to a reaction with dioxygen. <i>Dalton Transactions RSC</i> , 2002, , 983-994.	2.3	35
12	Systematic synthesis and characterisation of phosphido-bridged trismium carbonyl clusters. <i>Journal of Organometallic Chemistry</i> , 1985, 296, c1-c5.	1.8	31
13	Synthesis, structure and redox properties of $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\mu\text{-}\sigma\text{-}\eta^4\text{-NiC}_4\text{R}_4(\eta^5\text{-C}_5\text{H}_5))]$ . A ferrocene analog with a nickelacyclopentadiene ring. <i>Organometallics</i> , 1985, 4, 1594-1601.	2.3	31
14	Structural features of molecular electrocatalysts in multi-electron redox processes for renewable energy – recent advances. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2159-2175.	4.9	31
15	Electron transfer in organometallic clusters. 7. Bis( $\mu$ -3-carbyne) clusters of cobalt including ferrocene derivatives. <i>Organometallics</i> , 1984, 3, 1344-1353.	2.3	30
16	A simple route to bis(terpyridyl)transition metal oligomers. <i>Inorganica Chimica Acta</i> , 1999, 284, 76-84.	2.4	28
17	Controlled Synthesis of Dinuclear Acetylide-Bridged Ruthenium Complexes. <i>Organometallics</i> , 2010, 29, 957-965.	2.3	28
18	Low Oxidation State Iron(0), Iron(I), and Ruthenium(0) Dinitrogen Complexes with a Very Bulky Neutral Phosphine Ligand. <i>Inorganic Chemistry</i> , 2013, 52, 3043-3053.	4.0	28

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19	Copper(II) complexes of 6-hydroxymethyl-substituted tris(2-pyridylmethyl)amine ligands. Dalton Transactions RSC, 2000, , 1419-1429.	2.3	26
20	Bridgehead Hydrogen Atoms Are Important: Unusual Electrochemistry and Proton Reduction at Iron Dimers with Ferrocenyl-Substituted Phosphido Bridges. Organometallics, 2012, 31, 3480-3491.	2.3	25
21	Bio-Inspired Catalytic Imine Reduction by Rhodium Complexes with Tethered Hantzsch Pyridinium Groups: Evidence for Direct Hydride Transfer from Dihydropyridine to Metal-Activated Substrate. Angewandte Chemie - International Edition, 2013, 52, 3411-3416.	13.8	25
22	Predictable Substituent Control of Co(III/II) Redox Potential and Spin Crossover in Bis(dipyridylpyrrolide)cobalt Complexes. Inorganic Chemistry, 2019, 58, 2218-2228.	4.0	24
23	Synthesis, electrochemical and spectroscopic properties of pendant hydroquinone- and quinone-substituted polypyridyl ruthenium(II) complexes. Inorganica Chimica Acta, 1993, 204, 3-7.	2.4	22
24	Valence Tautomerism and Coordinative Lability in Copper(II)-Imidazolyl-Semiquinonate Anion Radical Models for the CuB-Center in Cytochrome c Oxidases. Journal of the American Chemical Society, 2007, 129, 5800-5801.	13.7	22
25	An Easy One-Pot Synthesis of Diverse 2,5-Di(2-pyridyl)pyrroles: A Versatile Entry Point to Metal Complexes of Functionalised, Meridial and Tridentate 2,5-Di(2-pyridyl)pyrrolato Ligands. Chemistry - A European Journal, 2014, 20, 11445-11456.	3.3	22
26	A Strain-Deformation Nexus within Pincer Ligands: Application to the Spin States of Iron(II) Complexes. Inorganic Chemistry, 2018, 57, 12312-12322.	4.0	22
27	Palladium(II) complexes of 2-(2,5-dimethoxyphenyl)-1,10-phenanthroline (phenhqMe2) and 2-(2,5-hydroquinonyl)-1,10-phenanthroline (phenhqH2). The x-ray crystal structure of [PdCl(phenhqH)]·H2O·(CH3)2SO. Polyhedron, 1992, 11, 243-250.	2.2	20
28	Copper(II) complexes of a bulky tris(pyrazolylmethyl)amine ligand. Dalton Transactions RSC, 2000, , 3445-3452.	2.3	20
29	Programmed Helicity in Self-Assembled Hydrogen-Bonded Chains of Chiral Copper(II) Complexes. European Journal of Inorganic Chemistry, 2006, 2006, 1190-1197.	2.0	20
30	Strategic design of a ruthenium catalyst for both CO2 reduction and H2O oxidation: the electronic influence of the co-ligands. Chemical Communications, 2017, 53, 10006-10009.	4.1	20
31	Fluxionality in a Paramagnetic Seven-Coordinate Iron(II) Complex: A Variable-Temperature, Two-Dimensional NMR and DFT Study. Inorganic Chemistry, 2009, 48, 4863-4872.	4.0	19
32	Rhodium Complexes of a Chelating Ligand with Imidazol-2-ylidene and Pyridin-2-ylidene Donors: The Effect of <i>trans</i> -Metalation of Nicotinamide Groups on Uptake of Hydride Ion. Inorganic Chemistry, 2012, 51, 2191-2203.	4.0	18
33	Syntheses, properties, and X-ray crystal structures of the molybdenum dimers [ $\text{Cp}_2\text{Mo}_2\text{Br}_2(\text{CO})_2$ ] and [ $\text{Cp}_2\text{Mo}_2\text{Br}_4$ ] ( $\text{Cp} = \eta^5\text{-1-(2,5-dimethoxyphenyl)-2,3,4,5-tetraphenylcyclopentadienyl}$ ). Organometallics, 1993, 12, 133-139.	2.3	17
34	Inclusion properties of palladium(II) and platinum(II) hydroquinonylphosphine complexes: the molecular and crystal structures of <i>trans</i> -[PdCl2(pphgH2)2]·(acetone)2, <i>trans</i> -[PtCl2(pphgH2)2]·(dimethylformamide)4 and <i>trans</i> -[PdCl2(pphgMe2)2]. Inorganica Chimica Acta, 1995, 228, 109-117.	2.4	17
35	meso-Indanyl calix[4]pyrrole receptors. Tetrahedron, 2005, 61, 10705-10712.	1.9	17
36	Electron transfer in organometallic clusters. Journal of Organometallic Chemistry, 1987, 330, 415-428.	1.8	16

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37	The preparation, properties and X-ray crystal structure of the nickel(II) hydroquinonylphosphine complex cis-[Ni(pphqH) <sub>2</sub> ]-H <sub>2</sub> O·2(CH <sub>3</sub> ) <sub>2</sub> NCHO. <i>Inorganica Chimica Acta</i> , 1992, 202, 67-72.	2.4	16
38	Homoleptic Fe(II) complexes of new 2,2'-bis(2,2'-terpyridine) ligands with 4'-p-hydroquinonyl or 4'-p-quinonyl pendants. <i>Inorganica Chimica Acta</i> , 1995, 239, 1-4.	2.4	16
39	Oligomers and macrocycles with [m]pyridine[n]pyrrole (m+n=3) domains: Formation and applications of anion, guest molecule and metal ion complexes. <i>Coordination Chemistry Reviews</i> , 2018, 363, 29-56.	18.8	16
40	A palladium(II) complex of a new iminophosphine ligand derived from diethylenetriamine and 2-(diphenylphosphino)benzaldehyde. <i>Inorganica Chimica Acta</i> , 2000, 307, 134-138.	2.4	15
41	Monomeric and dimeric metal complexes of a simply prepared and versatile pentapyridyldiamine. <i>Inorganic Chemistry Communication</i> , 2002, 5, 958-962.	3.9	15
42	Synthesis, electrochemistry and spectroscopic properties of ruthenium phthalocyanine and naphthalocyanine complexes with triphenylarsine ligands. <i>Inorganica Chimica Acta</i> , 2008, 361, 49-55.	2.4	15
43	Reactions of [MCl <sub>2</sub> (ppqMe <sub>2</sub> ) <sub>2</sub> ] (M=Pd, Pt) with I <sup>-</sup> and with CF <sub>3</sub> SO <sub>3</sub> H/I <sup>-</sup> including the synthesis and X-ray crystal structure of the palladium phosphidoxo complex [Pd <sub>2</sub> (I <sub>1/4</sub> ) <sub>2</sub> {(PPh <sub>2</sub> O)2H} <sub>2</sub> ]. <i>Inorganica Chimica Acta</i> , 1990, 176, 225-231.	2.4	14
44	Macrocyclic Bis(phenanthroline-pyrrole): A Convenient One-Pot Synthesis, Structure(s), Spectroscopic, and Redox Properties, and the Binding of Amine Guests, Protons, and Lanthanide Ions. <i>Chemistry - an Asian Journal</i> , 2014, 9, 136-145.	3.3	13
45	Nitrosyl derivatives of tricobaltcarbon clusters. <i>Journal of Organometallic Chemistry</i> , 1984, 265, 199-204.	1.8	12
46	Bridgehead isomer effects in bis(phosphido)-bridged diiron hexacarbonyl proton reduction electrocatalysts. <i>Dalton Transactions</i> , 2017, 46, 3207-3222.	3.3	12
47	An X-ray crystal and electronic structural investigation of the interstitial phosphide cluster [Os <sub>6</sub> (CO) <sub>18</sub> PCl]. <i>Polyhedron</i> , 1988, 7, 1759-1765.	2.2	11
48	Could the tyrosine-histidine ligand to Cu <sub>B</sub> in cytochrome c oxidase be coordinatively labile? Implications from a quantum chemical model study of histidine substitutional lability and the effects of the covalent tyrosine-histidine cross-link. <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 855-865.	2.6	11
49	An unusual but informative synthesis and the crystal structure of [Co(tpaCO <sub>2</sub> )Cl](ClO <sub>4</sub> ) (tpaCO <sub>2</sub> <sup>-</sup> =6-carboxylato-2-(pyridylmethyl)-bis(2-pyridylmethyl)amine). <i>Inorganic Chemistry Communication</i> , 2003, 6, 1351-1353.	3.9	11
50	Bio-Inspired Transition Metal-Organic Hydride Conjugates for Catalysis of Transfer Hydrogenation: Experiment and Theory. <i>Chemistry - A European Journal</i> , 2015, 21, 2821-2834.	3.3	10
51	Pendant-para-benzoquinonyl substituted cyclopentadienyl ligands: preparation of 1-para-benzoquinonyl-2,3,4,5-tetraphenylcyclopentadienyl (1-5-CpQ) ruthenium(II) carbonyl complexes. <i>Journal of Organometallic Chemistry</i> , 1991, 408, C33-C38.	1.8	9
52	Four Soft Donors and a Hard Centre: Rhodium Complexes of a Novel Tetrakis(NHC)-Encapsulated Crown Ether Ligand. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4331-4337.	2.0	9
53	Palladium(II) complexes of imidazolin-2-ylidene N-heterocyclic carbene ligands with redox-active dimethoxyphenyl or (hydro)quinonyl substituents. <i>Inorganica Chimica Acta</i> , 2011, 370, 374-381.	2.4	9
54	Ruthenium Complexes in Homogeneous and Heterogeneous Catalysis for Electroreduction of CO <sub>2</sub> . <i>ChemCatChem</i> , 2020, 12, 1292-1296.	3.7	9

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55	Reduction Chemistry of Organometallic Molybdenum, Tungsten, and Ruthenium Bromo Complexes of the Bulky, Perarylated Cyclopentadienyl Ligand .eta.5-CPh4phqMe2: Evidence for the Intermediacy of Metal-Centered Radicals and Nucleophilic Reactions of Product Metalate Anions with Chlorinated Solvent. <i>Organometallics</i> , 1994, 13, 1061-1063.	2.3	8
56	Copper(I) tribromide dianion as a weakly-bridging, axial ligand: Synthesis of an unusual mixed-valent Cu(II)2Cu(I) trimer. <i>Inorganic Chemistry Communication</i> , 2006, 9, 887-890.	3.9	8
57	Structural, electrochemical and photochemical investigation of the water-soluble tin(IV) tetrakis(2-N-hydroxyethyl-4-pyridinium)porphyrin photocatalyst. <i>Journal of Porphyrins and Phthalocyanines</i> , 2011, 15, 1345-1353.	0.8	8
58	Metal-ion chemistry of tetra(meso-4-phenoxy-2-picoly)-calix[4]pyrrole: An extendable super-cavitand tetrapodal ligand. <i>Inorganic Chemistry Communication</i> , 2006, 9, 469-472.	3.9	7
59	Synthesis and (spectro)electrochemical investigations of coordinatively-saturated (cyclopentadienyl)ruthenium $\pi$ -Hantzsch pyridinium/dihydropyridine conjugates. <i>Inorganica Chimica Acta</i> , 2016, 444, 103-112.	2.4	6
60	Reduction of ( $\eta$ -5-C5Ph4q)Ru(CO)2Br (q = 2,5-Benzoquinonyl): $\pi$ Evidence for an 18 $e^-$ Metalate Anion with a Reduced (Semiquinone) Substituent. <i>Organometallics</i> , 1997, 16, 4254-4256.	2.3	5
61	Syntheses, electrochemistry and electrodeposition of ruthenium(II) complexes of 4,4'-bis(4-anilino)vinyl)-2,2'-bipyridine. <i>Polyhedron</i> , 1997, 16, 2705-2710.	2.2	5
62	Synthesis and structure of copper(II) complexes of two new poly(2-pyridylalkyl)diamine ligands. <i>Inorganica Chimica Acta</i> , 2004, 357, 3793-3798.	2.4	4
63	Evaluation of Organic Hydride Donors as Reagents for the Reduction of Carbon Dioxide and Metal-Bound Formates. <i>Organometallics</i> , 2018, 37, 3972-3982.	2.3	4
64	The instructive redox behaviour of 4-ferrocenylcatechol on nanocrystalline titanium dioxide electrodes. <i>Applied Organometallic Chemistry</i> , 2007, 21, 73-75.	3.5	3
65	Synthesis and structural, redox and photophysical properties of tris-(2,5-di(2-pyridyl)pyrrolide) lanthanide complexes. <i>Dalton Transactions</i> , 2019, 48, 9365-9375.	3.3	3
66	Copper(II) complexes of ligands derived from tryptamine. <i>Polyhedron</i> , 2009, 28, 1097-1102.	2.2	2
67	The redox interaction between the vanadyl cation and tris[6-(2-hydroxymethyl)pyridylmethyl]amine. <i>Inorganica Chimica Acta</i> , 2012, 392, 490-493.	2.4	2
68	Tri- $\eta$ -4-chlorido-bis[( $\eta$ -5-pentamethylcyclopentadienyl)rhodium(III)] hexafluoridophosphate from synchrotron radiation. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, m14-m15.	0.2	2
69	An aryl-bridged dixanthene scaffold for building multinucleating ligands and supramolecular assemblies: Syntheses and structures. <i>Tetrahedron</i> , 2017, 73, 6401-6409.	1.9	2
70	Flexible dinucleating N,N,N-tridentate ligands based on a xanthene scaffold. <i>Inorganica Chimica Acta</i> , 2013, 399, 55-61.	2.4	1
71	trans-Chloridobis(4-methylpyridine- $\eta$ -N)(4,4'-bis(2,2,6,6-tetramethyl-2,2'-terpyridine- $\eta$ -3N,N $\pi$ ,N $\pi$ )ruthenium(II) hexafluoridophosphate acetone monosolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, m300-m300.	0.2	0
72	Proton reduction by phosphinidene-capped triiron clusters. <i>Journal of Organometallic Chemistry</i> , 2021, 943, 121816.	1.8	0

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73	A dimer of bis(N-heterocyclic carbene)rhodium(I) centres spanned by a dibenzo-18-crown-6 bridge from synchrotron radiation. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, m47-m48.	0.2	0