

Stephen Sproules

List of Publications by Year in descending order

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117
docs citations

117
times ranked

4878
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating a Dispersion of Sodium in Sodium Chloride for the Synthesis of Low-Valent Nickel Complexes**. European Journal of Inorganic Chemistry, 2022, 2022, .	2.0	6
2	Exploring the Redox Properties of Bench-Stable Uranyl(VI) Diamido-Dipyrrin Complexes. Inorganic Chemistry, 2022, 61, 3249-3255.	4.0	4
3	Electronic versatility of vanadium in tris-chelates with redox-active ligands. Dalton Transactions, 2022, , .	3.3	0
4	Aggregate dependent electrochromic properties of amino acid appended naphthalene diimides in water. Materials Advances, 2022, 3, 3326-3331.	5.4	3
5	Selective aldehyde reductions in neutral water catalysed by encapsulation in a supramolecular cage. Chemical Science, 2021, 12, 5082-5090.	7.4	13
6	Electronic structure study of divanadium complexes with rigid covalent coordination: potential molecular qubits with slow spin relaxation. Dalton Transactions, 2021, 50, 4778-4782.	3.3	0
7	Oxidative Dehydrogenation of 1-Butene to 1,3-Butadiene Over Metal Ferrite Catalysts. Topics in Catalysis, 2021, 64, 907-915.	2.8	3
8	Oxo versus Sulfido Coordination at Tungsten: A Spectroscopic and Correlated Ab Initio Electronic Structure Study. Inorganic Chemistry, 2021, 60, 9057-9063.	4.0	0
9	Open-Ended Metallodithiolene Complexes with the 1,2,4,5-Tetrakis(diphenylphosphino)benzene Ligand: Modular Building Elements for the Synthesis of Multimetal Complexes. Inorganic Chemistry, 2021, 60, 13177-13192.	4.0	3
10	Modulating Iron Spin States with Radical Ligands: A Density Functional Theoretical Study. Asian Journal of Organic Chemistry, 2020, 9, 421-430.	2.7	5
11	Electrocatalytic hydrogen production by dinuclear cobalt (Co_2) compounds containing redox-active diamidate ligands: a combined experimental and theoretical study. Dalton Transactions, 2020, 49, 15718-15730.	3.3	10
12	Group 10 Metal Dithiolene Bis(isonitrile) Complexes: Synthesis, Structures, Properties, and Reactivity. Organometallics, 2020, 39, 2854-2870.	2.3	8
13	Investigating Complex Magnetic Anisotropy in a Co(II) Molecular Compound: A Charge Density and Correlated Ab Initio Electronic Structure Study. Inorganic Chemistry, 2020, 59, 13190-13200.	4.0	12
14	Unexpected Nickel Complex Speciation Unlocks Alternative Pathways for the Reactions of Alkyl Halides with dppf-Nickel(0). ACS Catalysis, 2020, 10, 10717-10725.	11.2	18
15	Heteroleptic Samarium(III) Chalcogenide Complexes: Opportunities for Giant Exchange Coupling in Bridging f- and f-Radical Lanthanide Dichalcogenides. Inorganic Chemistry, 2020, 59, 7571-7583.	4.0	14
16	Modulating the Magnetic Properties of Copper(II)/Nitroxyl Heterospin Complexes by Suppression of the Jahn-Teller Distortion. Inorganic Chemistry, 2020, 59, 8657-8662.	4.0	5
17	Three Manganese Complexes of Anionic N4-Donor Schiff-Base Macrocycles: Monomeric MnII and MnIII, and dimeric MnIV. Australian Journal of Chemistry, 2019, 72, 805.	0.9	3
18	Towards a better understanding of the electrosynthesis of 2,5-dicarboxy-2,5-dihydrofurans: structure, mechanism and influence over stereochemistry. Royal Society Open Science, 2019, 6, 190336.	2.4	2

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19	Comment on "Stabilization of Low-Valent Iron(I) in a High-Valent Vanadium(V) Oxide Cluster", <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10043-10047.	13.8	7
20	Enabling single qubit addressability in a molecular semiconductor comprising gold-supported organic radicals. <i>Chemical Science</i> , 2019, 10, 1483-1491.	7.4	15
21	Rigidification of a macrocyclic tris-catecholate scaffold leads to electronic localisation of its mixed valent redox product. <i>Chemical Communications</i> , 2019, 55, 2281-2284.	4.1	4
22	Kinetic Control of Interpenetration in Fe-Biphenyl-4,4'-dicarboxylate Metal-Organic Frameworks by Coordination and Oxidation Modulation. <i>Journal of the American Chemical Society</i> , 2019, 141, 8346-8357.	13.7	58
23	Molecular and electronic structure of the dithiooxalato radical ligand stabilised by rare earth coordination. <i>Dalton Transactions</i> , 2019, 48, 5491-5495.	3.3	6
24	Enhanced Fe-Centered Redox Flexibility in Fe-Ti Heterobimetallic Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 6199-6214.	4.0	29
25	Synthesis, structural and physicochemical characterization of a new type Ti ₆ -oxo cluster protected by a cyclic imide dioxime ligand. <i>Dalton Transactions</i> , 2019, 48, 5551-5559.	3.3	15
26	Kommentar zu "Stabilisierung eines niedrigvalenten Eisen(I)-Ions in einem hochvalenten molekularen Vanadium(V)-Oxid-Cluster", <i>Angewandte Chemie</i> , 2019, 131, 10145-10150.	2.0	1
27	Proton-Coupled Electron Transfer Enhances the Electrocatalytic Reduction of Nitrite to NO in a Bioinspired Copper Complex. <i>ACS Catalysis</i> , 2018, 8, 5070-5084.	11.2	46
28	Reversible Ligand-Centered Reduction in Low-Coordinate Iron Formazanate Complexes. <i>Chemistry - A European Journal</i> , 2018, 24, 9417-9425.	3.3	30
29	Alkali Cation Effects on Redox-Active Formazanate Ligands in Iron Chemistry. <i>Inorganic Chemistry</i> , 2018, 57, 9580-9591.	4.0	30
30	Controlling Photoconductivity in PBI Films by Supramolecular Assembly. <i>Chemistry - A European Journal</i> , 2018, 24, 4006-4010.	3.3	35
31	"Type Low-Molecular-Weight Hydrogelators. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1700746.	3.9	3
32	Directed Self-Assembly, Symmetry Breaking, and Electronic Modulation of Metal Oxide Clusters by Pyramidal Heteroanions. <i>Chemistry - A European Journal</i> , 2018, 24, 4399-4411.	3.3	8
33	Design and Assembly of Covalently Functionalised Polyoxofluorovanadate Molecular Hybrids. <i>Chemistry - A European Journal</i> , 2018, 24, 3836-3845.	3.3	9
34	Using Sugar-Based Additives to Prolong the Lifetime of Air-Stable Radicals in Self-Assembled Perylene Bisimides. <i>ChemNanoMat</i> , 2018, 4, 776-780.	2.8	1
35	Earth-Abundant Mixed-Metal Catalysts for Hydrocarbon Oxygenation. <i>Inorganic Chemistry</i> , 2018, 57, 5915-5928.	4.0	11
36	Redox-Active Metallodithiolene Groups Separated by Insulating Tetraphosphinobenzene Spacers. <i>Inorganic Chemistry</i> , 2018, 57, 4023-4038.	4.0	14

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37	End-on cyanate or end-to-end thiocyanate bridged dinuclear copper(II) complexes with a tridentate Schiff base blocking ligand: synthesis, structure and magnetic studies. <i>New Journal of Chemistry</i> , 2018, 42, 1634-1641.	2.8	20
38	Transparent-to-dark photo- and electrochromic gels. <i>Communications Chemistry</i> , 2018, 1, .	4.5	17
39	Ligand Radicals as Modular Organic Electron Spin Qubits. <i>Chemistry - A European Journal</i> , 2018, 24, 17598-17605.	3.3	15
40	The semiquinone radical anion of 1,10-phenanthroline-5,6-dione: synthesis and rare earth coordination chemistry. <i>Chemical Communications</i> , 2018, 54, 11284-11287.	4.1	8
41	Structural Characterization and Photochemical Properties of Mono- and Bimetallic Cu-Mabiq Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 6401-6409.	4.0	6
42	Controlled Tuning of the Properties in Optoelectronic Self-Sorted Gels. <i>Journal of the American Chemical Society</i> , 2018, 140, 8667-8670.	13.7	68
43	Radical Relatives: Facile Oxidation of Hetero-Diarylmethene Anions to Neutral Radicals. <i>Inorganic Chemistry</i> , 2018, 57, 9592-9600.	4.0	4
44	Heteroleptic samarium(III) halide complexes probed by fluorescence-detected L ₃ -edge X-ray absorption spectroscopy. <i>Dalton Transactions</i> , 2018, 47, 10613-10625.	3.3	8
45	The modular synthesis of rare earth-transition metal heterobimetallic complexes utilizing a redox-active ligand. <i>Dalton Transactions</i> , 2018, 47, 10692-10701.	3.3	17
46	Spectroscopic Studies of the Chan-Lam Amination: A Mechanism-Inspired Solution to Boronic Ester Reactivity. <i>Journal of the American Chemical Society</i> , 2017, 139, 4769-4779.	13.7	264
47	A macrocyclic Co ^{II} complex: the relevance of ligand non-innocence to reactivity. <i>Chemical Communications</i> , 2017, 53, 7282-7285.	4.1	10
48	Mononuclear Sulfido-Tungsten(V) Complexes: Completing the Tp [*] MEXY (M = Mo, W; E = O, S) Series. <i>Inorganic Chemistry</i> , 2017, 56, 5189-5202.	4.0	6
49	Triggering Redox Activity in a Thiophene Compound: Radical Stabilization and Coordination Chemistry. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7939-7943.	13.8	11
50	Correction to Oxidative Addition of Aryl Electrophiles to a Prototypical Nickel(0) Complex: Mechanism and Structure/Reactivity Relationships. <i>Organometallics</i> , 2017, 36, 1880-1880.	2.3	1
51	Triggering Redox Activity in a Thiophene Compound: Radical Stabilization and Coordination Chemistry. <i>Angewandte Chemie</i> , 2017, 129, 8047-8051.	2.0	4
52	Oxidative Addition of Aryl Electrophiles to a Prototypical Nickel(0) Complex: Mechanism and Structure/Reactivity Relationships. <i>Organometallics</i> , 2017, 36, 1662-1672.	2.3	135
53	An alternative method to access diverse N,N'-di-quaternised-3,3'-biquinoxalium β -biquinoxen α -dications. <i>New Journal of Chemistry</i> , 2017, 41, 2949-2954.	2.8	1
54	A polynuclear and two dinuclear copper(II) Schiff base complexes: Synthesis, characterization, self-assembly, magnetic property and DFT study. <i>Polyhedron</i> , 2017, 137, 332-346.	2.2	21

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55	An investigation into the unusual linkage isomerization and nitrite reduction activity of a novel tris(2-pyridyl) copper complex. Royal Society Open Science, 2017, 4, 170593.	2.4	9
56	Unprecedented Inequivalent Metal Coordination Environments in a Mixed-Ligand Dicobalt Complex. European Journal of Inorganic Chemistry, 2017, 2017, 3707-3713.	2.0	4

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73	Anion directed cation templated synthesis of three ternary copper(II) complexes with a monocondensed N2O donor Schiff base and different pseudohalides. <i>Polyhedron</i> , 2015, 85, 221-231.	2.2	30
74	Large Zero-Field Splittings of the Ground Spin State Arising from Antisymmetric Exchange Effects in Heterometallic Triangles (<i>Angew. Chem.</i> 21/2014). <i>Angewandte Chemie</i> , 2014, 126, 5578-5578.	2.0	0
75	Separation and isolation of tautomers of 2-hydroxy-4-naphthoquinone-1-oxime derivatives by liquid chromatography: Antiproliferative activity and DFT studies. <i>Journal of Chemical Sciences</i> , 2014, 126, 213-225.	1.5	13
76	Stable Mixed-Valent Radicals from Platinum(II) Complexes of a Bis(dioxolene) Ligand. <i>Chemistry - A European Journal</i> , 2014, 20, 6272-6276.	3.3	19
77	Modulation of Magnetic Properties at Room Temperature: Coordination-Induced Valence Tautomerism in a Cobalt Dioxolene Complex. <i>Chemistry - A European Journal</i> , 2014, 20, 11149-11162.	3.3	52
78	On the Possibility of Magneto-Structural Correlations: Detailed Studies of Dinickel Carboxylate Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 8464-8472.	4.0	32
79	X-ray Absorption Spectroscopy Systematics at the Tungsten L-Edge. <i>Inorganic Chemistry</i> , 2014, 53, 8230-8241.	4.0	32
80	Redox-Switchable Ring-Closing Metathesis: Catalyst Design, Synthesis, and Study. <i>Chemistry - A European Journal</i> , 2013, 19, 10866-10875.	3.3	90
81	Electronic Structures of Homoleptic [Tris(2,2'-bipyridine)M] ⁿ⁺ Complexes of the Early Transition Metals (M = Sc, Y, Ti, Zr, Hf, V, Nb, Ta; n = 1+, 0, 1 ⁺ , 2 ⁺ , 3 ⁺): An Experimental and Density Functional Theoretical Study. <i>Inorganic Chemistry</i> , 2013, 52, 2242-2256.	4.0	54
82	Syntheses and Electronic Structure of Bimetallic Complexes Containing a Flexible Redox-Active Bridging Ligand. <i>Inorganic Chemistry</i> , 2013, 52, 898-909.	4.0	17
83	Synthesis and molecular structure of a zinc complex of the vitamin K3 analogue phthiocol. <i>Journal of Molecular Structure</i> , 2013, 1048, 223-229.	3.6	22
84	Ancillary Ligand Effects upon Dithiolene Redox Noninnocence in Tungsten Bis(dithiolene) Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 6743-6751.	4.0	24
85	EPR/ENDOR, Mössbauer, and Quantum-Chemical Investigations of Diiron Complexes Mimicking the Active Oxidized State of [FeFe]Hydrogenase. <i>Inorganic Chemistry</i> , 2012, 51, 8617-8628.	4.0	28
86	Experimental Fingerprints for Redox-Active Terpyridine in [Cr(tpy) ₂](PF ₆) ₆ (n = 3 ⁺), and the Remarkable Electronic Structure of [Cr(tpy) ₂] ¹⁺ . <i>Inorganic Chemistry</i> , 2012, 51, 3718-3732.	4.0	125
87	Outer-Sphere Contributions to the Electronic Structure of Type Zero Copper Proteins. <i>Journal of the American Chemical Society</i> , 2012, 134, 8241-8253.	13.7	42
88	Electronic Structures of the [V ^{IV} (bpy) ₃] ³⁺ (z = 0) and [V ^{IV} (bpy) ₃] ²⁺ (z = 1) Complexes. <i>Inorganic Chemistry</i> , 2012, 51, 8617-8628.	4.0	50
89	Electronic Structures of the Electron Transfer Series [M(bpy) ₃] ⁿ⁺ , [M(tpy) ₂] ⁿ⁺ , and [Fe(t ₂ bpy) ₃] ⁿ⁺ (M = Fe, Ru; n = 3+, 2+, 1+, 0, 1 ⁺): A Mössbauer Spectroscopic and DFT Study. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 4605-4621.	2.0	87
90	Redox-Controlled Interconversion between Trigonal Prismatic and Octahedral Geometries in a Monodithiolene Tetracarbonyl Complex of Tungsten. <i>Inorganic Chemistry</i> , 2012, 51, 346-361.	4.0	25

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91	Monoanionic Molybdenum and Tungsten Tris(dithiolene) Complexes: A Multifrequency EPR Study. <i>Inorganic Chemistry</i> , 2011, 50, 7106-7122.	4.0	55
92	Long-Range Spin Coupling: A Tetrakisphosphine-Bridged Palladium Dimer. <i>Inorganic Chemistry</i> , 2011, 50, 2995-3002.	4.0	22
93	Paramagnetic Oxotungsten(V) Complexes Containing the Hydrotris(3,5-dimethylpyrazol-1-yl)borate Ligand. <i>Inorganic Chemistry</i> , 2011, 50, 4503-4514.	4.0	11
94	A Step beyond the Feltham-Enemark Notation: Spectroscopic and Correlated ab Initio Computational Support for an Antiferromagnetically Coupled M(II) d ⁶ (NO) Description of Tp [*] M(NO) (M = Co, Ni). <i>Journal of the American Chemical Society</i> , 2011, 133, 18785-18801.	13.7	89
95	The Rhenium Tris(dithiolene) Electron Transfer Series: Calibrating Covalency. <i>Inorganic Chemistry</i> , 2011, 50, 12623-12631.	4.0	26
96	Electronic and Molecular Structures of the Members of the Electron Transfer Series [Cr(t ₃ bpy) ₃] ⁿ (n = 3+, 2+, 1+, 0): An X-ray Absorption Spectroscopic and Density Functional Theoretical Study. <i>Inorganic Chemistry</i> , 2011, 50, 12446-12462.	4.0	142
97	Electronic Structures and Spectroscopy of the Electron Transfer Series [Fe(NO)L ₂] ⁿ (n = 1+, 0, 1 ⁻ , 2 ⁻ , 3 ⁻ ; L = Dithiolene). <i>Inorganic Chemistry</i> , 2011, 50, 12064-12074.	4.0	28
98	Dithiolene radicals: Sulfur K-edge X-ray absorption spectroscopy and Harry's intuition. <i>Coordination Chemistry Reviews</i> , 2011, 255, 837-860.	18.8	171
99	Stabilization of High-valent Fe ^{IV} S ₆ Cores by Dithiocarbamate (1 ⁻) and 1,2-Dithiolate (2 ⁻) Ligands in Octahedral [Fe ^{IV} (Et ₂ dtc) ₃] ⁿ (mnt) ⁿ (n = 0, 1, 2, 3): A Spectroscopic and Density Functional Theory Computational Study. <i>Chemistry - A European Journal</i> , 2010, 16, 3628-3645.		21
100	The molecular and electronic structures of monomeric cobalt complexes containing redox noninnocent o-aminobenzenethiolate ligands. <i>Inorganica Chimica Acta</i> , 2010, 363, 2702-2714.	2.4	19
101	o-Dithiolene and o-aminothiolate chemistry of iron: Synthesis, structure and reactivity. <i>Coordination Chemistry Reviews</i> , 2010, 254, 1358-1382.	18.8	111
102	Outer-Sphere Effects on Reduction Potentials of Copper Sites in Proteins: The Curious Case of High Potential Type 2 C112D/M121E <i>Pseudomonas aeruginosa</i> Azurin. <i>Journal of the American Chemical Society</i> , 2010, 132, 14590-14595.	13.7	33
103	Six-Membered Electron Transfer Series [V(dithiolene) ₃] ⁿ (n = 1+, 0,) Tj ETQq1 1 0.784314 rgB (Chemistry, 2010, 49, 5241-5261.	4.0	55
104	Polynuclear Complexes Containing the Redox Noninnocent Schiff Base Ligand 2 ⁻ [(E)-2-Mercaptophenylimino]methyl-4,6-di-tert-butylphenolate (2 ⁻). <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 2655-2663.	4.0	28
105	Electronic Structure of the [Tris(dithiolene)chromium] ⁿ (n = 0, 1 ⁻ , 2 ⁻ , 3 ⁻) Electron Transfer Series and Their Manganese(IV) Analogues. An X-ray Absorption Spectroscopic and Density Functional Theoretical Study. <i>Inorganic Chemistry</i> , 2009, 48, 5829-5847.	4.0	78
106	Characterization and Electronic Structures of Five Members of the Electron Transfer Series [Re(benzene-1,2-dithiolato) ₃] ⁿ (n = 1+, 0, 1 ⁻ , 2 ⁻ , 3 ⁻): A Spectroscopic and Density Functional Theoretical Study. <i>Inorganic Chemistry</i> , 2009, 48, 10926-10941.	4.0	49
107	Trivalent Iron and Ruthenium Complexes with a Redox Noninnocent (2-Mercaptophenylimino)-methyl-4,6-di-tert-butylphenolate(2-) Ligand. <i>Inorganic Chemistry</i> , 2009, 48, 3783-3791.	4.0	39
108	(±-Dimine)chromium Complexes: Molecular and Electronic Structures; A Combined Experimental and Density Functional Theoretical Study. <i>Inorganic Chemistry</i> , 2008, 47, 5963-5970.	4.0	49

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109	Molecular and Electronic Structure of the Square Planar Bis(<i>o</i> -amidobenzenethiolato)iron(III) Anion and Its Bis(<i>o</i> -quinoxalinedithiolato)iron(III) Analogue. <i>Inorganic Chemistry</i> , 2008, 47, 10911-10920.	4.0	31
110	One- and Two-Electron Reduced 1,2-Diketone Ligands in [CrIII(L ϕ) ₃] (S= 0) and Na ₂ (Et ₂ O) ₂ [VIV(LRed) ₃] (S=1/2). <i>Inorganic Chemistry</i> , 2008, 47, 10935-10944.	4.0	44