

Matthew Ian James Polson

List of Publications by Year in descending order

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60
papers

1,326
citations

361296

20
h-index

360920

35
g-index

61
all docs

61
docs citations

61
times ranked

1789
citing authors

#	ARTICLE	IF	CITATIONS
1	Iridium Cyclometalated Complexes with Axial Symmetry. Synthesis and Photophysical Properties of <i>trans</i> -Biscyclometalated Complex Containing the Tridentate Ligand 2,6-Diphenylpyridine. <i>Inorganic Chemistry</i> , 2004, 43, 1950-1956.	1.9	111
2	Chemically-synthesised, atomically-precise gold clusters deposited and activated on titania. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3917.	1.3	111
3	Ruthenium Complexes of Easily Accessible Tridentate Ligands Based on the 2-Aryl-4,6-bis(2-pyridyl)-s-triazine Motif: Absorption Spectra, Luminescence Properties, and Redox Behavior. <i>Chemistry - A European Journal</i> , 2004, 10, 3640-3648.	1.7	101
4	Iridium Cyclometalated Complexes with Axial Symmetry: A Time-Dependent Density Functional Theory Investigation of <i>trans</i> -Bis-Cyclometalated Complexes Containing the Tridentate Ligand 2,6-Diphenylpyridine. <i>Inorganic Chemistry</i> , 2005, 44, 1282-1289.	1.9	84
5	The Multichromophore Approach: Prolonged Room-Temperature Luminescence Lifetimes in Rull Complexes Based on Tridentate Polypyridine Ligands. <i>Chemistry - A European Journal</i> , 2006, 12, 8539-8548.	1.7	78
6	Factors influencing the catalytic oxidation of benzyl alcohol using supported phosphine-capped gold nanoparticles. <i>Catalysis Science and Technology</i> , 2015, 5, 1323-1333.	2.1	65
7	Clinical Utility of Multi-Energy Spectral Photon Counting Computed Tomography in Crystal Arthritis. <i>Arthritis and Rheumatology</i> , 2019, 71, 1158-1162.	2.9	65
8	Bridging ligand planarity as a route to long-lived, near infrared emitting dinuclear ruthenium(ii) complexes. <i>Chemical Communications</i> , 2006, , 1301.	2.2	61
9	Creating New Binding Sites in Ligands and Metal Complexes Using the Negishi Cross-Coupling Reaction. <i>Inorganic Chemistry</i> , 2003, 42, 5-7.	1.9	53
10	Facile syntheses of tridentate ligands for room-temperature luminescence in ruthenium complexes. <i>Chemical Communications</i> , 2002, , 1356-1357.	2.2	48
11	Nanostructured TiO ₂ anatase-rutile-carbon solid coating with visible light antimicrobial activity. <i>Scientific Reports</i> , 2019, 9, 1883.	1.6	47
12	New dinuclear Ru(ii) complexes containing free chelating polypyridine sites within the bridging ligands: absorption spectra, luminescence properties, redox behavior and sensing properties Electronic supplementary information (ESI) available: Absorption spectra of complexes 1 and 2 in the presence and absence of acetic acid. See http://www.rsc.org/suppdata/pp/b2/b206362j/ . <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 982.	1.6	35
13	Vibrational Spectra of Dipyrido[3,2-a:2',3'-c]phenazine and Its Radical Anion Analyzed by Ab Initio Calculations and Deuteration Studies. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 933-942.	2.0	33
14	Structural Changes upon Reduction of Dipyrido[2,3-a:3',2'-c]phenazine Probed by Vibrational Spectroscopy, ab Initio Calculations, and Deuteration Studies. <i>Inorganic Chemistry</i> , 2004, 43, 2876-2887.	1.9	29
15	Cyclopropenium Cations Break the Rules of Attraction to Form Closely Bound Dimers. <i>Journal of the American Chemical Society</i> , 2015, 137, 15528-15532.	6.6	29
16	Trinuclear Copper(I) Complex Containing 3,4,9,10,15,16-Hexamethyl-1,6,7,12,13,18-hexaazatrinaphthylene: A Structural, Spectroscopic, and Computational Study. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3566-3575.	1.1	26
17	Synthesis of a Novel Series of 6,6'-Disubstituted 4,4'-Bipyrimidines by Radical Anion Coupling: New π -Accepting Ligands for Coordination Chemistry. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 3775-3780.	1.2	25
18	Rapid and Efficient Synthesis of Schiff Bases Catalyzed by Copper Nitrate. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2009, 39, 189-192.	0.6	25

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19	Diazonium salt derivatives of osmium bipyridine complexes: Electrochemical grafting and characterisation of modified surfaces. <i>Electrochimica Acta</i> , 2011, 56, 2213-2220.	2.6	21
20	Surface Patterning Using Two-Phase Laminar Flow and In-Situ Formation of Aryldiazonium Salts. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10261-10264.	7.2	21
21	Heterodinuclear ruthenium(ii)-cobalt(iii) complexes as models for a new approach to selective cancer treatment. <i>Dalton Transactions</i> , 2012, 41, 14425.	1.6	18
22	Synthesis and electronic properties of mononuclear osmium(II) and rhenium(I) complexes containing ligands derived from [2,3-a:3',2'-c]dipyridophenazine (ppb). <i>Polyhedron</i> , 2004, 23, 1427-1439.	1.0	17
23	Characterization of photocatalytic, wetting and optical properties of TiO ₂ thin films and demonstration of uniform coating on a 3-D surface in the mass transport controlled regime. <i>Surface and Coatings Technology</i> , 2017, 326, 402-410.	2.2	16
24	Revealing the chromophoric composition of multichromophoric polypyridyl complexes of Re(I) and Os(II): a resonance Raman study. <i>Journal of Raman Spectroscopy</i> , 2002, 33, 434-442.	1.2	14
25	Site-specific electronic couplings in dyads with MLCT excited states. Intramolecular energy transfer in isomeric Ru(ii)-Ru(ii) cyclometalated complexes. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 438-443.	1.6	14
26	Synthesis and physical properties of tris(dialkylamino)cyclopropenium dicyanamide ionic liquids. <i>RSC Advances</i> , 2018, 8, 28313-28322.	1.7	13
27	CO oxidation and the inhibition effects of carboxyl-modification and copper clusters on multi-walled carbon nanotubes. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118265.	10.8	12
28	Size-activity threshold of titanium dioxide-supported Cu cluster in CO oxidation. <i>Environmental Pollution</i> , 2021, 279, 116899.	3.7	12
29	Unexpected furanose/pyranose equilibration of N-glycosyl sulfonamides, sulfamides and sulfamates. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6573-6579.	1.5	11
30	Crystal engineering of dichromate pillared hybrid ultramicroporous materials incorporating pyrazole-based ligands. <i>CrystEngComm</i> , 2018, 20, 1193-1197.	1.3	11
31	Varied spin crossover behaviour in a family of dinuclear Fe(III) triple helicate complexes. <i>Dalton Transactions</i> , 2018, 47, 7965-7974.	1.6	11
32	Ferromagnetic Exchange in Bichloride Bridged Cu(II) Chains: Magnetostructural Correlations between Ordered and Disordered Systems. <i>Inorganic Chemistry</i> , 2017, 56, 5441-5454.	1.9	10
33	Synthesis, structural and magnetic characterisation of iron(ii/iii), cobalt(ii) and copper(ii) cluster complexes of the polytopic ligand: N-(2-pyridyl)-3-carboxypropanamide. <i>Dalton Transactions</i> , 2013, 42, 13576.	1.6	9
34	4-(o-Toluy)-2,2'-bipyridine: synthesis, bromination, complexation, and X-ray crystallographic characterization. <i>Journal of Coordination Chemistry</i> , 2011, 64, 145-158.	0.8	8
35	Silver coordination polymers derived from two isomeric ligands with three pendant allyl arms. <i>Journal of Organometallic Chemistry</i> , 2014, 749, 129-133.	0.8	8
36	A Discrete Chloride Monohydrate: A Solid-State Structural and Spectroscopic Characterization. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9244-9251.	1.1	8

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37	Solvent Dependent Spin Crossover and Photomagnetic Properties in an Imidazolylimine Fe(II) Complex. <i>Chemistry - an Asian Journal</i> , 2019, 14, 2225-2229.	1.7	7
38	Synthesis of a nitrogen mustard ligand on a cobalt(III) metal centre. <i>Polyhedron</i> , 2013, 52, 617-622.	1.0	6
39	Transition metal salts of quinoline: synthesis, structure and magnetic behavior of (QuinH) ₂ [MX ₄]·2H ₂ O [Quin = quinoline; M = Mn, Co, Cu, Zn], (QuinH) ₂ [MnBr ₂ (H ₂ O) ₂](Br) ₂ and (QuinH) ₂ [Cu(Ouin)Br ₃]. <i>Journal of Coordination Chemistry</i> , 2018, 71, 3342-3363.	0.8	5
40	Pyrazine-bridged Cu(II) chains: diaquabis(methyl-2-pyridone)copper(II) perchlorate complexes. <i>Dalton Transactions</i> , 2020, 49, 13693-13703.	1.6	5
41	[4-(2-Bromo-5-pyridyl)-2,6,2-terpyridine] ³⁻ bis(triphenylphosphonium) tetrafluoridoborate dichloromethane hemisolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, m205-m205.	0.2	5
42	Binuclear ruthenium and osmium mixed-valence complexes containing fused and flexible polypyridyl bridging ligands. <i>Polyhedron</i> , 2007, 26, 266-274.	1.0	4
43	Growth stages of nano-structured mixed-phase titania thin films and effect on photocatalytic activity. <i>Thin Solid Films</i> , 2019, 685, 136-144.	0.8	4
44	4-(2-Methylphenyl)-2,6,2-terpyridine: coordination chemistry with Ni(II), Cu(II), Zn(II) and Ag(I). <i>Journal of Coordination Chemistry</i> , 2019, 72, 1013-1035.	0.8	4
45	Utilizing the Combined Power of Theory and Experiment to Understand Molecular Structure – Solid-State and Gas-Phase Investigation of Morpholine Borane. <i>Australian Journal of Chemistry</i> , 2020, 73, 794.	0.5	4
46	Surface Patterning Using Two-Phase Laminar Flow and In-Situ Formation of Aryldiazonium Salts. <i>Angewandte Chemie</i> , 2013, 125, 10451-10454.	1.6	3
47	Deliberate boxes and accidental wheels. <i>Dalton Transactions</i> , 2015, 44, 4200-4206.	1.6	3
48	Halide-bridged Cu(pyrazine) ₂ perchlorate layers: Structure and magnetism. <i>Polyhedron</i> , 2019, 171, 344-352.	1.0	3
49	(1,6-Benzene)(2,2-bipyridine) ²⁻ chloridoruthenium(II) chloride methanol sesquisolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, m256-m256.	0.2	3
50	2-Amino-5-iodopyridinium bromide hemihydrate and 2-amino-5-iodopyridinium chloride monohydrate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013, 69, 1152-1156.	0.4	2
51	Titania Solid Thin Films Deposited by p-MOCVD Exhibiting Visible Light Photocatalytic Activity. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700578.	0.8	2
52	Triaminocyclopropenium Halide and Triiodide Salts: The Formation of Cyclopropenium Dimers. <i>Journal of Chemical Crystallography</i> , 2020, 50, 357-372.	0.5	2
53	Iridium Complexes with Terdentate Ligands: Cyclometalated vs. Polypyridine Analogues; Hybrid vs. Pure. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	1
54	High diastereoselectivity in borohydride reductions of coordinated imines. <i>Dalton Transactions</i> , 2012, 41, 1591-1596.	1.6	1

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55	Synthesis, structure and magnetic properties of catena-diaqua-bis(pyridine-N-oxide)(1/4-pyrazine)copper(II) perchlorate and the monomeric structure tetrakis(pyridine-N-oxide)copper(II) perchlorate. <i>Journal of Coordination Chemistry</i> , 2021, 74, 266-278.	0.8	1
56	4-[4-(Methylsulfanyl)phenyl]-6-phenyl-2,2'-bipyridine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o279-o279.	0.2	1
57	N,N,N'-Triacetyl-2,6-diamino-4-tert-butylanisole. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o1300-o1301.	0.2	0
58	N-(3-Diacetylamino-2-methoxy-5-methylphenyl)acetamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o4796-o4796.	0.2	0
59	Bis(2-phenyl-4,6-di-2-pyridyl-1,3,5-triazine-1,3,4,5,6-tetrahydro) ruthenium(II) bis(hexafluoridophosphate). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, m254-m255.	0.2	0
60	3,3'-Dibromo-5,5'-di-tert-butyl-2,2'-dimethoxybiphenyl. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o532-o532.	0.2	0