

Murray V Baker

List of Publications by Year in descending order

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105
papers

4,795
citations

109264

35
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98753

67
g-index

111
all docs

111
docs citations

111
times ranked

4453
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitochondria-Targeted Chemotherapeutics: The Rational Design of Gold(I) N-Heterocyclic Carbene Complexes That Are Selectively Toxic to Cancer Cells and Target Protein Selenols in Preference to Thiols. <i>Journal of the American Chemical Society</i> , 2008, 130, 12570-12571.	6.6	535
2	Metal complexes as a promising source for new antibiotics. <i>Chemical Science</i> , 2020, 11, 2627-2639.	3.7	290
3	Luminescence Studies of the Intracellular Distribution of a Dinuclear Gold(I) N-Heterocyclic Carbene Complex. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5966-5970.	7.2	242
4	Cationic, linear Au(I) N-heterocyclic carbene complexes: synthesis, structure and anti-mitochondrial activity. <i>Dalton Transactions</i> , 2006, , 3708.	1.6	237
5	Mitochondrial permeability transition induced by dinuclear gold(I) carbene complexes: potential new antimitochondrial antitumour agents. <i>Journal of Inorganic Biochemistry</i> , 2004, 98, 1642-1647.	1.5	223
6	Synthesis and structural characterisation of linear Au(I) N-heterocyclic carbene complexes: New analogues of the Au(I) phosphine drug Auranofin. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 5625-5635.	0.8	172
7	Dinuclear gold(I) complexes of bridging bidentate carbene ligands: synthesis, structure and spectroscopic characterisation. <i>Dalton Transactions</i> , 2004, , 1038-1047.	1.6	164
8	Palladium carbene complexes derived from imidazolium-linked ortho-cyclophanes. <i>Dalton Transactions RSC</i> , 2001, , 111-120.	2.3	131
9	Synthetic, structural and spectroscopic studies of (pseudo)halo(1,3-di-tert-butylimidazol-2-ylidene)gold complexes. <i>Dalton Transactions</i> , 2005, , 37.	1.6	123
10	Reaction of sp ² carbon-hydrogen bonds in unactivated alkenes with bis(diphosphine) complexes of iron. <i>Journal of the American Chemical Society</i> , 1986, 108, 7433-7434.	6.6	113
11	Reaction of carbon-hydrogen bonds in alkanes with bis(diphosphine) complexes of iron. <i>Journal of the American Chemical Society</i> , 1987, 109, 2825-2826.	6.6	101
12	Synthesis and Characterization of a Saddle-Shaped Nickel Carbene Complex Derived from an Imidazolium-Linked meta-Cyclophane. <i>Organometallics</i> , 2002, 21, 2674-2678.	1.1	92
13	Diamagnetic .d _{blarw} . paramagnetic equilibria in solutions of bis(dialkylphosphino)ethane complexes of iron. <i>Inorganic Chemistry</i> , 1988, 27, 2872-2876.	1.9	91
14	Dinuclear N-heterocyclic carbene complexes of silver(I), derived from imidazolium-linked cyclophanes. <i>Dalton Transactions</i> , 2004, , 3756.	1.6	91
15	Azolium-Linked Cyclophanes: A Comprehensive Examination of Conformations by 1H NMR Spectroscopy and Structural Studies. <i>Journal of Organic Chemistry</i> , 2004, 69, 7640-7652.	1.7	73
16	Palladium, rhodium and platinum complexes of ortho-xylyl-linked bis-N-heterocyclic carbenes: Synthesis, structure and catalytic activity. <i>Journal of Organometallic Chemistry</i> , 2006, 691, 5845-5855.	0.8	71
17	Mercury(II) selective sensors based on AlGaN/GaN transistors. <i>Analytica Chimica Acta</i> , 2016, 943, 1-7.	2.6	71
18	Bioenergetic differences selectively sensitize tumorigenic liver progenitor cells to a new gold(I) compound. <i>Carcinogenesis</i> , 2008, 29, 1124-1133.	1.3	69

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19	Reaction of ethylene with a coordinatively unsaturated iron complex Fe(DEPE) ₂ : sp ² carbon-hydrogen bond activation without prior formation of a π-complex. <i>Journal of the American Chemical Society</i> , 1986, 108, 7436-7438.	6.6	66
20	Carbohydrate- π -N-heterocyclic carbene metal complexes: Synthesis, catalysis and biological studies. <i>Coordination Chemistry Reviews</i> , 2017, 339, 1-16.	9.5	64
21	Octaple Interactions: Self-Assembly of a Pd-Based [2]Catenane Driven by Eightfold π - π Interactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 10372-10373.	6.6	57
22	Mercury Complexes of N-Heterocyclic Carbenes Derived from Imidazolium-Linked Cyclophanes: Synthesis, Structure, and Reactivity. <i>Organometallics</i> , 2009, 28, 3793-3803.	1.1	56
23	The synthesis of water-soluble PHEMA via ARGET ATRP in protic media. <i>Journal of Polymer Science Part A</i> , 2010, 48, 4084-4092.	2.5	52
24	Wetting films on chemically modified surfaces: An x-ray study. <i>Physical Review B</i> , 1991, 44, 10869-10879.	1.1	48
25	Silver(I) and mercury(II) complexes of meta- and para-xylyl linked bis(imidazol-2-ylidenes). <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2009, 65, 97-109.	1.6	47
26	An x-ray study of FeH(dmpe) ₂ (BH ₄): a compound containing a singly-bridged BH ₄ ligand with a bent Fe-H-B linkage. <i>Inorganica Chimica Acta</i> , 1986, 114, L27-L28.	1.2	45
27	Biodegradation of Poly(2-hydroxyethyl methacrylate) (PHEMA) and Poly{(2-hydroxyethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Peptide-Based Cross-Linking Agents. <i>Biomacromolecules</i> , 2010, 11, 2949-2959.	2.6	45
28	Functionalized graphene as an aqueous phase chemiresistor sensing material. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 154-158.	4.0	45
29	Formation of molecular hydrogen complexes of iron by the reversible protonation of iron dihydrides with alcohols. <i>Journal of the Chemical Society Chemical Communications</i> , 1988, , 546.	2.0	43
30	Synthesis and structure of N-heterocyclic carbene complexes of rhodium and iridium derived from an imidazolium-linked cyclophane. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 2312-2322.	0.8	43
31	Synthesis of a Bis(N-heterocyclic carbene)palladium Complex via Oxidative Addition of a C-C Bond in a Biimidazolium Ion. <i>Organometallics</i> , 2007, 26, 250-252.	1.1	41
32	Rapid Communication. Imidazolium-Linked Cyclophanes. <i>Australian Journal of Chemistry</i> , 1999, 52, 823.	0.5	40
33	Nitrate ion detection using AlGaN/GaN heterostructure-based devices without a reference electrode. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 301-305.	4.0	37
34	Palladium complexes of o-xylyl-linked alkoxybenzimidazolin-2-ylidenes: interesting structural conformations and application as pre-catalysts. <i>Dalton Transactions</i> , 2009, , 7294.	1.6	36
35	Ca ²⁺ detection utilising AlGaN/GaN transistors with ion-selective polymer membranes. <i>Analytica Chimica Acta</i> , 2017, 987, 105-110.	2.6	36
36	Complexation of the p-t-butyl-calix[4]arene anion with alkali metal cations in polar, non-aqueous solvents: experimental and theoretical studies. <i>Inorganica Chimica Acta</i> , 1996, 246, 275-286.	1.2	35

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37	Functionalization of Alkylsiloxane Monolayers via Free-Radical Bromination. <i>Langmuir</i> , 1997, 13, 2027-2032.	1.6	35
38	Synchrotron-based XPS studies of AlGaN and GaN surface chemistry and its relationship to ion sensor behaviour. <i>Applied Surface Science</i> , 2014, 314, 850-857.	3.1	35
39	Modifying the response of a polymer-based quartz crystal microbalance hydrocarbon sensor with functionalized carbon nanotubes. <i>Talanta</i> , 2011, 85, 1648-1657.	2.9	34
40	Underpotentially Deposited Copper Promotes Self-Assembly of Alkanephosphonate Monolayers on Gold Substrates. <i>Langmuir</i> , 2000, 16, 3288-3293.	1.6	33
41	Reversible metalation of alkyl and aryl groups by a coordinately unsaturated iron complex. <i>Organometallics</i> , 1986, 5, 821-823.	1.1	32
42	Azolium-Linked Cyclophanes: Effects of Structure, Solvent, and Counteranions on Solution Conformation Behavior. <i>Journal of Organic Chemistry</i> , 2008, 73, 9340-9352.	1.7	32
43	Solvent effects on the redox properties of ferrocenoyl-dipeptides. <i>New Journal of Chemistry</i> , 2001, 25, 427-433.	1.4	31
44	1,3,5-Trimethyl-1,3,5-triazacyclohexane tricarbonyl complexes of Mo and W as sources of the fac-M(CO) ₃ fragment. Mild syntheses of fac-[M(CO) ₃ (CH ₃ CN) ₃] (M=Mo, W), [W(CO) ₃ (PR ₃) ₃], [W(CO)(alkyne) ₃] and [W(CO) ₃ (η -arene)] complexes. <i>Journal of Organometallic Chemistry</i> , 1998, 565, 225-230.	0.8	30
45	Synthesis and structural characterization of (pseudo)-halo adducts of (1-4-1,5-cyclooctadiene)(1,3-dimethylimidazolin-2-ylidene)rhodium. <i>Inorganica Chimica Acta</i> , 2004, 357, 2841-2849.	1.2	30
46	A new binding geometry for an ortho-xylylene-linked bis(NHC)cyclophane: a ruthenium(II) complex with a chelating (1-NHC)2-1,6-arene ligand. <i>Dalton Transactions</i> , 2010, 39, 70-72.	1.6	30
47	Laser scanning confocal microscopy versus scanning electron microscopy for characterization of polymer morphology: Sample preparation drastically distorts morphologies of poly(2-hydroxyethyl methacrylate) in water. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1743-1751.	1.7	30
48	Comparative investigation of the Group 6 (Cr, Mo or W) metal carbonyl complexes of 1,3,5-triazacyclohexanes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 1145-1150.	1.1	29
49	An n.m.r. study of FeH(dmpe) ₂ (BH ₄) [dmpe = 1,2-bis(dimethylphosphino)ethane] an iron complex containing a monodentate borohydride ligand. <i>Journal of the Chemical Society Chemical Communications</i> , 1984, .	2.0	28
50	Molecular hydrogen complexes as intermediates in the synthesis of iron phosphine complexes; a reinvestigation of the preparation of bis(diphosphine) chlorohydroiron complexes. <i>Journal of Organometallic Chemistry</i> , 1988, 354, 351-356.	0.8	28
51	The preparation of poly(2-hydroxyethyl methacrylate) and poly{(2-hydroxyethyl methacrylate)-co-(2-hydroxyethyl methacrylate)} copolymerisation-induced phase separation in water. <i>Polymer</i> , 2009, 50, 5918-5927.	1.8	27
52	Stable Au(III) complexes with four N-heterocyclic carbene groups can be prepared in high yield directly from KAuCl ₄ . <i>Dalton Transactions</i> , 2017, 46, 7844-7856.	1.6	26
53	Enhanced deep-blue emission from Pt(II) complexes bound to 2-pyridyltetrazolate and an ortho-xylylene-linked bis(NHC)cyclophane. <i>Dalton Transactions</i> , 2013, 42, 4233.	1.6	25
54	Synthesis and Characterisation of Mono- and Bidentate Alkoxybenzimidazolin-2-ylidene Palladium Complexes: Interesting Solution Behaviour and Application in Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1937-1952.	1.0	23

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55	Dinuclear Au(κ^2) N-heterocyclic carbene complexes derived from unsymmetrical azolium cyclophane salts: potential probes for live cell imaging applications. Dalton Transactions, 2016, 45, 12221-12236.	1.6	23
56	Azolium Cyclophanes. Mini-Reviews in Organic Chemistry, 2006, 3, 333-354.	0.6	22
57	Carbohydrate-based crosslinking agents: Potential use in hydrogels. Journal of Polymer Science Part A, 2011, 49, 4312-4315.	2.5	21
58	Chromium(0) tricarbonyl complexes of 1,3,5-triazacyclohexanes. Journal of the Chemical Society Dalton Transactions, 1997, , 1363.	1.1	20
59	Oxidations of (R^3)M(CO) ₃ Complexes [M = Cr, Mo, W; R^3 = 1,3,5-Trialkyl-1,3,5-triazacyclohexane (R = t-Bu, Bn)]. Crystal Structures of (t-Bu) ₃ MO ₃ ·1.5H ₂ O (M = Mo, W). Inorganic Chemistry, 1999, 38, 4515-4521.	1.9	20
60	An investigation of 1,4,7-tri(4-alkynyl)-1,4,7-triazacyclononanes: ligand synthesis and metal co-ordination chemistry. Dalton Transactions RSC, 2000, , 4607-4616.	2.3	19
61	Synthesis and Characterisation of (Alkoxybenzimidazolin-2-ylidene)palladium Complexes: The Effect of Ancillary Ligands on the Behaviour of Precatalysts. European Journal of Inorganic Chemistry, 2009, 2009, 1977-1988.	1.0	19
62	Poly(2-Hydroxyethyl Methacrylate) Sponges Doped with Ag Nanoparticles as Antibacterial Agents. ACS Applied Nano Materials, 2020, 3, 1630-1639.	2.4	19
63	On the relative signs of phosphorus-phosphorus coupling constants in the NMR spectra of octahedral metal phosphine complexes. Inorganic Chemistry, 1987, 26, 2010-2011.	1.9	18
64	Pore size dynamics in interpenetrated metal organic frameworks for selective sensing of aromatic compounds. Analytica Chimica Acta, 2014, 819, 78-81.	2.6	18
65	Description of ionophore-doped membranes with a blocked interface. Sensors and Actuators B: Chemical, 2017, 250, 499-508.	4.0	16
66	Formation of Dinuclear Au ^{II} and Au ^I /Au ^{III} Mixed Valence Complexes is Directed by Structural Constraints Imposed by Cyclophane-NHC Ligands. European Journal of Inorganic Chemistry, 2018, 2018, 109-120.	1.0	16
67	Role of GaN cap layer for reference electrode free AlGaN/GaN-based pH sensors. Sensors and Actuators B: Chemical, 2019, 287, 250-257.	4.0	16
68	Synthesis and properties of bis(dialkylphosphino)ethane iron dihydrides. Applied Organometallic Chemistry, 1990, 4, 551-556.	1.7	15
69	Chromium complexes of hydroxyl-functionalised 1,3,5-triazacyclohexanes. Journal of the Chemical Society Dalton Transactions, 1999, , 1483-1490.	1.1	14
70	An Investigation into Alkenyl-Functionalized 1,4,7-Triazacyclononanes: Synthesis, Metal Complexation, and Attempted Olefin Metathesis. Australian Journal of Chemistry, 2002, 55, 655.	0.5	14
71	The synthesis and degradation of collagenase-degradable poly(2-hydroxyethyl methacrylate)-based hydrogels and sponges for potential applications as scaffolds in tissue engineering. Materials Science and Engineering C, 2012, 32, 2536-2544.	3.8	14
72	Cyclometallation Reactions in the Fe(dprpe) ₂ System [dprpe = 1,2-Bis(dipropylphosphino)ethane].. Australian Journal of Chemistry, 1999, 52, 1005.	0.5	13

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73	Group 6 metal complexes of 1,3,5-tri(4-pentynyl)-1,3,5-triazacyclohexane. Dalton Transactions RSC, 2000, , 763-768.	2.3	13
74	The structure and dynamics of FeH(DMPE) ₂ (BH ₄), FeH(DEPE) ₂ (BH ₄) and FeH(DPrPE) ₂ (BH ₄): Iron complexes containing monodentate borohydride ligands. Applied Organometallic Chemistry, 1990, 4, 543-549.	1.7	11
75	A Stable Copper(I) π -Triazacyclononane Complex with an Intramolecularly Coordinated Alkyne Group. Organometallics, 2001, 20, 2161-2166.	1.1	11
76	The preparation and reactions of dienol ester and dienol ester derivatives of hagemann's ester and its t-butyl analogue. Tetrahedron Letters, 1984, 25, 1625-1628.	0.7	9
77	Using free-radical bromination to functionalise the surfaces of self-assembled alkylsiloxane monolayers. Tetrahedron Letters, 1995, 36, 4623-4624.	0.7	9
78	Electrochemistry of poly(vinylferrocene) modified electrodes in aqueous acidic media. Journal of Power Sources, 2005, 140, 388-391.	4.0	9
79	Exploring structural and conformational behaviour of cyclophanes incorporating imidazole-2-thiones. Tetrahedron, 2018, 74, 2956-2966.	1.0	9
80	Titanium(IV) Imido Complexes of 1,3,5-Trialkyl-1,3,5-triazacyclohexanes. Australian Journal of Chemistry, 1999, 52, 179.	0.5	9
81	Formation of a caged rhodium complex via an intramolecular, metal-mediated [2 + 2 + 1] cycloaddition of alkynes and CO. Dalton Transactions RSC, 2002, , 2595.	2.3	8
82	Improving the cellular invasion into PHEMA sponges by incorporation of the RGD peptide ligand: The use of copolymerization as a means to functionalize PHEMA sponges. Materials Science and Engineering C, 2013, 33, 4917-4922.	3.8	7
83	The preparation of ethyl and isopropyl dienol ethers and dienol pivalate esters from Hagemann's ester and its t-butyl analogue, and the reactions of the derived ester dienolates with electrophiles. Australian Journal of Chemistry, 1984, 37, 2037.	0.5	6
84	Intramolecular Hydroamination of 1,4,7-Tri(pent-4'-yn-1'-yl)-1,4,7-triazacyclononane: Formation of an Azoniaspiro-[4.8]-tridecane. Australian Journal of Chemistry, 2000, 53, 791.	0.5	6
85	Solvent roles in metal ion coordination: the NiCl ₂ O-solvates, NiCl ₂ ·4MeOH, NiCl ₂ ·2MeOH·0.5dioxan and NiCl ₂ ·2H ₂ O·2dioxan. Inorganica Chimica Acta, 2004, 357, 4562-4567.	1.2	6
86	Synthesis and Electrochemical Characterization of New Thioether- and Ferrocene-Containing Copolymers. Australian Journal of Chemistry, 2004, 57, 207.	0.5	6
87	XPS/NEXAFS spectroscopic and conductance studies of glycine on AlGaN/GaN transistor devices. Applied Surface Science, 2018, 435, 23-30.	3.1	6
88	Au π -NHC complexes with thiocarboxylate ligands: Synthesis, structure, stability, thiol exchange and in vitro anticancer activity. Applied Organometallic Chemistry, 0, , .	1.7	6
89	Potentiometric measurement of state-of-charge of lead-acid battery by using a bridged ferrocene surface modified electrode. Journal of Power Sources, 2006, 158, 1034-1038.	4.0	5
90	Synthesis and characterization of 3-vinyl[33](1,2,4)ferrocenophane. Inorganica Chimica Acta, 2006, 359, 1299-1302.	1.2	4

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91	New Structural Motifs Resulting from Internal Constraints in Chelating Bis(NHC) Ligands: A Dinuclear Ruthenium(II) Complex Featuring an I^{2-} -Arene Binding Mode and a Remarkable New Tetrameric Silver(I) Halide Form. <i>Organometallics</i> , 2015, 34, 2508-2514.	1.1	4
92	Growth and XPS Characterization of Anodic Telluride Films on $\text{Hg}^{1\%}\text{Cd x Te}$. <i>Journal of the Electrochemical Society</i> , 1995, 142, 2480-2485.	1.3	3
93	NMR Study of the Hydrolysis and Oligomerization of Alkyltrichlorosilanes in Silanizing Solutions Used to Prepare Alkylsiloxane Self-Assembled Monolayers. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 30, 101-115.	1.1	3
94	Synthesis of Tungsten Complexes Containing an Intramolecularly Coordinated Alkyne Group. <i>Organometallics</i> , 2004, 23, 3749-3751.	1.1	3
95	Synthesis of Poly(2-Hydroxyethyl Methacrylate) Sponges via Activators Regenerated by Electron-transfer Atom-transfer Radical Polymerization. <i>Australian Journal of Chemistry</i> , 2012, 65, 931.	0.5	3
96	Calixarene/azolium cyclophane hybrids: synthesis, structure and conformations. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2015, 82, 53-69.	0.9	3
97	Mercury complexes of an N-heterocyclic carbene derived from a calixarene/azolium cyclophane hybrid. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2015, 82, 71-78.	0.9	3
98	Dynamic Pressure/Temperature Behaviour of GaN-Based Chemical Sensors. <i>IEEE Sensors Journal</i> , 2021, 21, 18877-18886.	2.4	3
99	Poly(2-hydroxyethyl methacrylate) Hydrogels Doped with Gold Nanoparticles for Surface-Enhanced Raman Spectroscopy. <i>ACS Applied Nano Materials</i> , 2021, 4, 5577-5589.	2.4	2
100	3,5-Dibromophenyl-functionalised imidazolium salts and their corresponding $[\text{Au}(\text{NHC})_2]^+$ complexes: synthesis, supramolecular chemistry and anti-cancer activity. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2021, 101, 227-242.	0.9	2
101	Synthesis and Electrochemical Behaviour of Vinylferrocene-Propylene Sulfide-Graft Copolymers. <i>Australian Journal of Chemistry</i> , 2001, 54, 361.	0.5	1
102	Polydivinylferrocene surface modified electrode for measuring state-of-charge of lead-acid battery. <i>Journal of Power Sources</i> , 2008, 182, 639-641.	4.0	1
103	Poly(2-hydroxyethyl methacrylate) hydrogels doped with copper nanoparticles. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	1
104	Palladium complexes of o-xylene-linked alkoxybenzimidazolin-2-ylidenes containing aryl N-substituents: examples of C-H activation and the formation of a tri-nuclear palladium complex. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2015, 82, 79-91.	0.9	0
105	Functionalization of Underpotentially Deposited Metal Layers with Organics, Metals, and Ions. , 2002, , 69-81.		0