Gareth R Owen

List of Publications by Year
in descending order

56 papers	2,114 citations	257450 24 h-index	233421 45 g-index
60 all docs	60 docs citations	60 times ranked	1346 citing authors

#	Article	IF	Citations
1	The Sting of the Scorpion: A Metallaboratrane. Angewandte Chemie - International Edition, 1999, 38, 2759-2761.	13.8	327
2	Hydrogen atom storage upon Z-class borane ligand functions: an alternative approach to ligand cooperation. Chemical Society Reviews, 2012, 41, 3535.	38.1	136
3	Polyazolyl Chelate Chemistry. 12.1An Unusual Mode of Coordination for the Hydrotris(methimazolyl)borato Ligand. Organometallics, 2003, 22, 4446-4450.	2.3	113
4	Reversible dioxygen binding in solvent-free liquid myoglobin. Nature Chemistry, 2010, 2, 622-626.	13.6	102
5	Double addition of H₂to transition metalâ€“borane complexes: a â€˜hydride shuttleâ€™ process between boron and transition metal centres. Chemical Communications, 2011, 47, 484-486.	4.1	100
6	sp Carbon Chains Surrounded by sp3Carbon Double Helices:Â Coordination-Driven Self-Assembly of Wirelike Pt(Câ‹®C)nPt Moieties That Are Spanned by Two P(CH2)mP Linkages. Journal of the American Chemical Society, 2007, 129, 8282-8295.	13.7	92
7	Functional group migrations between boron and metal centres within transition metalâ€“borane and â€“boryl complexes and cleavage of Hâ€“H, Câ€“H and Eâ€“Eâ€² bonds. Chemical Communications, 2016, 52, 10712-10726.	4.1	91
8	Synthesis of the Ruthenaboratranes [Ru(CS)(PPh₃){B(mt)₃}](Ruâ†’B)⁸ and [Ru(CO)(CNR){B(mt)₃}](Ruâ†’B)⁸ (mt = methimazolyl, R =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457	2.3	76
9	Further Exploring the â€œSting of the Scorpionâ€: Hydride Migration and Subsequent Rearrangement of Norbornadiene to Nortricyclyl on Rhodium(I). Organometallics, 2009, 28, 5222-5232.	2.3	59
10	A new family of metallaboratrane complexes based on 7-azaindole: Bâ€“H activation mediated by carbon monoxide. Chemical Communications, 2009, , 2538.	4.1	58
11	A new family of flexible scorpionate ligands based on 2-mercaptopyridine. Dalton Transactions, 2009, , 6120.	3.3	52
12	A â€˜stingâ€™ on Grubbsâ€™ catalyst: an insight into hydride migration between boron and a transition metal. Chemical Communications, 2009, , 553-555.	4.1	45
13	A new hybrid scorpionate ligand: a study of the metalâ€“boron bond within metallaboratrane complexes. Dalton Transactions, 2010, 39, 392-400.	3.3	44
14	Syntheses and Structures of Diplatinum Hexatriynediyl Complexes, in Which the sp Carbon Chains Are Shielded by sp3Carbon Chains. Organometallics, 2004, 23, 5889-5892.	2.3	43
15	Flexible scorpionates for transfer hydrogenation: the first example of their catalytic application. Dalton Transactions, 2008, , 6039.	3.3	41
16	Coordinationâ€Driven Selfâ€Assembly, Structures, and Dynamic Properties of Diplatinum Hexatriynediyl and Butadiynediyl Complexes in which the sp Carbon Chains are Shielded by sp³ Carbon Chains: Towards Endgroupâ€“Endgroup Interactions. Chemistry - A European Journal, 2008, 14, 73-87.	3.3	38
17	Unexpected pincer-type coordination (Î¹³-SBS) within a zerovalent platinum metallaboratrane complex. Dalton Transactions, 2010, 39, 49-52.	3.3	38
18	Scorpionate Ligands Based on 2-Mercaptopyridine: A Ligand with a Greater Propensity To Sting?. Organometallics, 2011, 30, 5844-5850.	2.3	38

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19	Influence of Chelating Phosphines on the Insertion of Isocyanides into Palladiumâ^'Methyl Bonds in (Pâ^'P)Pd(Me)Cl Complexes and Their Further Reaction with Olefins and Isothiocyanates. Organometallics, 2002, 21, 4799-4807.	2.3	37
20	Syntheses and Structures of Tetraplatinum Bis(polyynediyl) Complexes with Laterally Arrayed sp Carbon Chains. Organometallics, 2004, 23, 5893-5895.	2.3	35
21	Utilizing the 8-Methoxycyclooct-4-en-1-ide Unit As a Hydrogen Atom Acceptor en Route to â€œMetalâ€“Borane Pincersâ€. Organometallics, 2012, 31, 6753-6760.	2.3	35
22	Studies on the Reactivity of Isocyanates and Isothiocyanates with Palladiumâ^'Imidoyl Complexes. Organometallics, 2003, 22, 4511-4521.	2.3	28
23	Crystal field arguments to explain the trans labilisation within transition metalâ€“borane complexes. Transition Metal Chemistry, 2010, 35, 221-228.	1.4	25
24	Strong agostic-type interactions in ruthenium benzylidene complexes containing 7-azaindole based scorpionate ligands. Dalton Transactions, 2011, 40, 951-958.	3.3	24
25	Rhodium and iridium complexes containing diphenyl-2-(3-methyl)indolylphosphine: synthesis, structure and application in the catalytic transfer hydrogenation of ketones. Dalton Transactions, 2010, 39, 6239.	3.3	23
26	Synthesis and characterisation of group nine transition metal complexes containing new mesityl and naphthyl based azaindole scorpionate ligands. Dalton Transactions, 2011, 40, 5906.	3.3	23
27	Towards multistranded molecular wires: Syntheses, structures, and reactivities of tetraplatinum bis(polyynediyl) complexes with î€Pt-Cx-Pt-(P(CH2)3P)2-Pt-Cx-Pt-(P(CH2)3Pî€')2 cores (x = 4, 6, 8). Dalton Transactions, 2010, 39, 5260.	3.3	22
28	Insight into the Hydrogen Migration Processes Involved in the Formation of Metalâ€“Borane Complexes: Importance of the Third Arm of the Scorpionate Ligand. Organometallics, 2013, 32, 2840-2856.	2.3	22
29	Synthesis and Structural Characterization of a Novel Dipalladium Complex with an Unprecedented PdCN Bonding Motif. Organometallics, 2003, 22, 3025-3027.	2.3	21
30	New Mixed-Donor Bidentate Ligands Based on N-Heterocyclic Carbene and Thione Donors. Organometallics, 2011, 30, 4779-4787.	2.3	21
31	Synthesis and structural characterisation of a novel polynuclear copper ribbon-like network. A study of its magnetic properties between 4 and 300K. Inorganica Chimica Acta, 2009, 362, 3502-3506.	2.4	18
32	Silver and Palladium Complexes Containing Ditopic N-Heterocyclic Carbeneâ€“Thione Ligands. Organometallics, 2012, 31, 6595-6607.	2.3	16
33	Sequential Migrations between Boron and Rhodium Centers: A Cooperative Process between Rhodium and a Monosubstituted Borohydride Unit. Inorganic Chemistry, 2018, 57, 446-456.	4.0	16
34	Synthesis and Characterization of Platinum and Palladium Complexes Featuring a Rare Secondary Borane Pincer Motif. Organometallics, 2018, 37, 2177-2187.	2.3	13
35	Palladium Iminoacyl Imine Complexes: Strategies toward Imine Insertion. Organometallics, 2009, 28, 5783-5793.	2.3	11
36	Examining slit pore widths within plasma-exfoliated graphitic material utilising Barrettâ€“Joynerâ€“Halenda analysis. New Journal of Chemistry, 2021, 45, 12071-12080.	2.8	11

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37	Important Steric Effects Resulting from the Additional Substituent at Boron within Scorpionate Complexes Containing Î³3-NNH Coordination Modes. European Journal of Inorganic Chemistry, 2011, 2011, 5233-5241.	2.0	10
38	Copper and silver complexes bearing flexible hybrid scorpionate ligandmpBm. Dalton Transactions, 2013, 42, 11074-11081.	3.3	10
39	Two synthetic routes to bis(1-methyl-imidazole-2-thione)methane and bis(1-benzyl-imidazole-2-thione)methane complexes including sulfur atom insertion into copperâ^'NHC bonds. Journal of Organometallic Chemistry, 2017, 847, 224-233.	1.8	10
40	Stopping Hydrogen Migration in Its Tracks: The First Successful Synthesis of Group Ten Scorpionate Complexes Based on Azaindole Scaffolds. Inorganic Chemistry, 2019, 58, 359-367.	4.0	10
41	Recent developments on the transformation of CO₂utilising ligand cooperation and related strategies. Dalton Transactions, 2022, 51, 11582-11611.	3.3	10
42	Palladium complexes containing ligands with hydrogen-bonding functionalities. Reactivity and catalytic studies with CO and olefins. Journal of Organometallic Chemistry, 2005, 690, 5113-5124.	1.8	9
43	A comparison of the coordination of two linkage isomers of bis(1-methylthioimidazolyl)methane to zinc salts. Inorganica Chimica Acta, 2011, 365, 462-468.	2.4	9
44	Synthesis and structural characterisation of the palladium cluster compounds [Pd3(Î¼-SO2)2(Î¼-PPh2py)2(PBz3)2] and [Pd4(Î¼-SO2)2(Î¼3-S)(CNR)(PBz3)4]Â(R =tBu, 2,6-dimethylphenyl and	3.3	8
45	Synthesis, structural characterisation and catalytic application of dichloro(Î·) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (6- ketones. Transition Metal Chemistry, 2013, 38, 641-648.	1.4	8
46	Preparation and reactivity of rhodium and iridium complexes containing a methylborohydride based unit supported by two 7-azaindolyl heterocycles. Dalton Transactions, 2018, 47, 11047-11057.	3.3	7
47	Transformation of a Norbornadiene Unit to Ethylenylcyclopentene Requiring Cooperation between Boron and Rhodium Centers. Organometallics, 2020, 39, 1976-1988.	2.3	7
48	Analysis induced reduction of a polyelectrolyte. Results in Surfaces and Interfaces, 2022, 6, 100032.	2.4	7
49	Palladium and Platinum Complexes Containing Diphenylâ€2â€(3â€methyl)indolylphosphine. European Journal of Inorganic Chemistry, 2020, 2020, 4195-4202.	2.0	6
50	The Sting of the Scorpion: A Metallaboratrane. Angewandte Chemie - International Edition, 1999, 38, 2759-2761.	13.8	6
51	Boronic acids for functionalisation of commercial multi-layer graphitic material as an alternative to diazonium salts. New Journal of Chemistry, 2020, 44, 19144-19154.	2.8	5
52	Synthesis and Structural Characterization of Rhodium Complexes Featuring Ditopic Nâ€Heterocyclic Carbene/Thione Donors. European Journal of Inorganic Chemistry, 2013, 2013, 2782-2788.	2.0	3
53	catena-Poly[[[bis(2-pyridone-Î²O)sodium]-di-Î¼-2-pyridone-Î²4O:O] tetrafluoroborate]. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m83-m85.	0.2	2
54	Oleophobic composite films based on multi-layer graphitic scaffolding. New Journal of Chemistry, 0, , .	2.8	2

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55	trans-Chloromethyldipyridinepalladium(II). Acta Crystallographica Section E: Structure Reports Online, 2005, 61, m2651-m2652.	0.2	1
56	Adding to the Family of Copper Complexes Featuring Borohydride Ligands Based on 2-Mercaptopyridyl Units. Inorganics, 2019, 7, 93.	2.7	1