

# Gareth R Owen

## List of Publications by Year in descending order

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56  
papers

2,114  
citations

257450

24  
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233421

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g-index

60  
all docs

60  
docs citations

60  
times ranked

1346  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis induced reduction of a polyelectrolyte. Results in Surfaces and Interfaces, 2022, 6, 100032.	2.4	7
2	Recent developments on the transformation of CO <sub>2</sub> utilising ligand cooperation and related strategies. Dalton Transactions, 2022, 51, 11582-11611.	3.3	10
3	Examining slit pore widths within plasma-exfoliated graphitic material utilising Barrett-Joyner-Halenda analysis. New Journal of Chemistry, 2021, 45, 12071-12080.	2.8	11
4	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
5	Palladium and Platinum Complexes Containing Diphenyl(3-methyl)indolylphosphine. European Journal of Inorganic Chemistry, 2020, 2020, 4195-4202.	2.0	6
6	Transformation of a Norbornadiene Unit to Ethylenylcyclopentene Requiring Cooperation between Boron and Rhodium Centers. Organometallics, 2020, 39, 1976-1988.	2.3	7
7	Adding to the Family of Copper Complexes Featuring Borohydride Ligands Based on 2-Mercaptopyridyl Units. Inorganics, 2019, 7, 93.	2.7	1
8	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
9	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
10	Synthesis and Characterization of Platinum and Palladium Complexes Featuring a Rare Secondary Borane Pincer Motif. Organometallics, 2018, 37, 2177-2187.	2.3	13
11	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
12	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 copper <sup>II</sup> NHC bonds. Journal of Organometallic Chemistry, 2017, 847, 224-233.	1.8	10
13	Functional group migrations between boron and metal centres within transition metal <sup>II</sup> borane and <sup>II</sup> boryl complexes and cleavage of H <sup>+</sup> , E <sup>+</sup> H and E <sup>+</sup> E <sup>+</sup> bonds. Chemical Communications, 2016, 52, 10712-10726.	4.1	91
14	Copper and silver complexes bearing flexible hybrid scorpionate ligand <b>Bm</b> . Dalton Transactions, 2013, 42, 11074-11081.	3.3	10
15	Synthesis, structural characterisation and catalytic application of dichloro(1- <i>tert</i> -butyl-2-oxoethylidene)ketones. Transition Metal Chemistry, 2013, 38, 641-648.	1.4	8
16	Insight into the Hydrogen Migration Processes Involved in the Formation of Metal <sup>II</sup> Borane Complexes: Importance of the Third Arm of the Scorpionate Ligand. Organometallics, 2013, 32, 2840-2856.	2.3	22
17	Synthesis and Structural Characterization of Rhodium Complexes Featuring Ditopic N-Heterocyclic Carbene/Thione Donors. European Journal of Inorganic Chemistry, 2013, 2013, 2782-2788.	2.0	3
18	Utilizing the 8-Methoxycyclooct-4-en-1-ide Unit As a Hydrogen Atom Acceptor en Route to <sup>II</sup> Borane Pincers. Organometallics, 2012, 31, 6753-6760.	2.3	35

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19	Silver and Palladium Complexes Containing Ditopic N-Heterocyclic Carbene–Thione Ligands. <i>Organometallics</i> , 2012, 31, 6595-6607.	2.3	16
20	Hydrogen atom storage upon Z-class borane ligand functions: an alternative approach to ligand cooperation. <i>Chemical Society Reviews</i> , 2012, 41, 3535.	38.1	136
21	Scorpionate Ligands Based on 2-Mercaptopyridine: A Ligand with a Greater Propensity To Sting?. <i>Organometallics</i> , 2011, 30, 5844-5850.	2.3	38
22	Synthesis and characterisation of group nine transition metal complexes containing new mesityl and naphthyl based azaindole scorpionate ligands. <i>Dalton Transactions</i> , 2011, 40, 5906.	3.3	23
23	Strong agostic-type interactions in ruthenium benzylidene complexes containing 7-azaindole based scorpionate ligands. <i>Dalton Transactions</i> , 2011, 40, 951-958.	3.3	24
24	New Mixed-Donor Bidentate Ligands Based on N-Heterocyclic Carbene and Thione Donors. <i>Organometallics</i> , 2011, 30, 4779-4787.	2.3	21
25	A comparison of the coordination of two linkage isomers of bis(1-methylthioimidazolyl)methane to zinc salts. <i>Inorganica Chimica Acta</i> , 2011, 365, 462-468.	2.4	9
26	Important Steric Effects Resulting from the Additional Substituent at Boron within Scorpionate Complexes Containing $\text{I}^{\text{P}3\text{-NNH}}$ Coordination Modes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 5233-5241.	2.0	10
27	Double addition of $\text{H}_2$ to transition metal–borane complexes: a hydride shuttle process between boron and transition metal centres. <i>Chemical Communications</i> , 2011, 47, 484-486.	4.1	100
28	Crystal field arguments to explain the trans labilisation within transition metal–borane complexes. <i>Transition Metal Chemistry</i> , 2010, 35, 221-228.	1.4	25
29	Reversible dioxygen binding in solvent-free liquid myoglobin. <i>Nature Chemistry</i> , 2010, 2, 622-626.	13.6	102
30	A new hybrid scorpionate ligand: a study of the metal–boron bond within metallaboratrane complexes. <i>Dalton Transactions</i> , 2010, 39, 392-400.	3.3	44
31	Unexpected pincer-type coordination ( $\text{I}^{\text{P}3\text{-SBS}}$ ) within a zerovalent platinum metallaboratrane complex. <i>Dalton Transactions</i> , 2010, 39, 49-52.	3.3	38
32	Towards multistranded molecular wires: Syntheses, structures, and reactivities of tetraplatinum bis(polyynediyl) complexes with $\text{Pt-Cx-Pt-(P(CH}_2)_3\text{P)}_2\text{-Pt-Cx-Pt-(P(CH}_2)_3\text{P)}_2$ cores (x = 4, 6, 8). <i>Dalton Transactions</i> , 2010, 39, 5260.	3.3	22
33	Rhodium and iridium complexes containing diphenyl-2-(3-methyl)indolylphosphine: synthesis, structure and application in the catalytic transfer hydrogenation of ketones. <i>Dalton Transactions</i> , 2010, 39, 6239.	3.3	23
34	Synthesis and structural characterisation of a novel polynuclear copper ribbon-like network. A study of its magnetic properties between 4 and 300K. <i>Inorganica Chimica Acta</i> , 2009, 362, 3502-3506.	2.4	18
35	Further Exploring the ‘Sting of the Scorpion’: Hydride Migration and Subsequent Rearrangement of Norbornadiene to Nortricyclyl on Rhodium(I). <i>Organometallics</i> , 2009, 28, 5222-5232.	2.3	59
36	Palladium Iminoacyl Imine Complexes: Strategies toward Imine Insertion. <i>Organometallics</i> , 2009, 28, 5783-5793.	2.3	11

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37	A new family of flexible scorpionate ligands based on 2-mercaptopyridine. Dalton Transactions, 2009, , 6120.	3.3	52
38	A "sting"™ on Grubbs™ catalyst: an insight into hydride migration between boron and a transition metal. Chemical Communications, 2009, , 553-555.	4.1	45
39	A new family of metallaboratrane complexes based on 7-azaindole: B-H activation mediated by carbon monoxide. Chemical Communications, 2009, , 2538.	4.1	58
40	Coordination-Driven Self-Assembly, Structures, and Dynamic Properties of Diplatinum Hexatrienediyl and Butadienediyl Complexes in which the sp <sup>3</sup> Carbon Chains are Shielded by sp <sup>3</sup> Carbon Chains: Towards Endgroup-Endgroup Interactions. Chemistry - A European Journal, 2008, 14, 73-87.	3.3	38
41	Flexible scorpionates for transfer hydrogenation: the first example of their catalytic application. Dalton Transactions, 2008, , 6039.	3.3	41
42	Synthesis of the Ruthenaboratranes [Ru(CS)(PPH <sub>3</sub> ) <sub>3</sub> ]{B(mt) <sub>3</sub> } and [Ru(CO)(CNR){B(mt) <sub>3</sub> }] (Ru <sup>II</sup> B <sup>III</sup> ) and [Ru(CO)(CNR){B(mt) <sub>3</sub> }] (Ru <sup>II</sup> B <sup>III</sup> ) (mt = methimazolyl, R =) <a href="#">Tj ETQq0 0 0 rgBT /Ozaflock 1076f 50 537</a>	3.3	41
43	sp <sup>3</sup> Carbon Chains Surrounded by sp <sup>3</sup> Carbon Double Helices: Coordination-Driven Self-Assembly of Wirelike Pt(C <sub>60</sub> ) <sub>n</sub> Pt Moieties That Are Spanned by Two P(CH <sub>2</sub> ) <sub>m</sub> P Linkages. Journal of the American Chemical Society, 2007, 129, 8282-8295.	13.7	92
44	catena-Poly[[[bis(2-pyridone-4-O)sodium]-di-1/4-2-pyridone-4-O] tetrafluoroborate]. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m83-m85.	0.2	2
45	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
46	trans-Chloromethyldipyridinepalladium(II). Acta Crystallographica Section E: Structure Reports Online, 2005, 61, m2651-m2652.	0.2	1
47	Syntheses and Structures of Tetraplatinum Bis(polyynediyl) Complexes with Laterally Arrayed sp <sup>3</sup> Carbon Chains. Organometallics, 2004, 23, 5893-5895.	2.3	35
48	Syntheses and Structures of Diplatinum Hexatrienediyl Complexes, in Which the sp <sup>3</sup> Carbon Chains Are Shielded by sp <sup>3</sup> Carbon Chains. Organometallics, 2004, 23, 5889-5892.	2.3	43
49	Synthesis and Structural Characterization of a Novel Dipalladium Complex with an Unprecedented PdCN Bonding Motif. Organometallics, 2003, 22, 3025-3027.	2.3	21
50	Polyazolyl Chelate Chemistry. 12.1 An Unusual Mode of Coordination for the Hydrotris(methimazolyl)borato Ligand. Organometallics, 2003, 22, 4446-4450.	2.3	113
51	Studies on the Reactivity of Isocyanates and Isothiocyanates with Palladium-Imidoyl Complexes. Organometallics, 2003, 22, 4511-4521.	2.3	28
52	Synthesis and structural characterisation of the palladium cluster compounds [Pd <sub>3</sub> (1/4-SO <sub>2</sub> ) <sub>2</sub> (1/4-PPh <sub>2</sub> ) <sub>2</sub> (PBz <sub>3</sub> ) <sub>2</sub> ] and [Pd <sub>4</sub> (1/4-SO <sub>2</sub> ) <sub>2</sub> (1/4-3-S)(CNR)(PBz <sub>3</sub> ) <sub>4</sub> ] (R = tBu, 2,6-dimethylphenyl and) <a href="#">Tj ETQq0 0 0 rgBT /Ozaflock 1076f 50 537</a>	2.3	21
53	Influence of Chelating Phosphines on the Insertion of Isocyanides into Palladium-Methyl Bonds in (P <sup>+</sup> )Pd(Me)Cl Complexes and Their Further Reaction with Olefins and Isothiocyanates. Organometallics, 2002, 21, 4799-4807.	2.3	37
54	The Sting of the Scorpion: A Metallaboratrane. Angewandte Chemie - International Edition, 1999, 38, 2759-2761.	13.8	327

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55	The Sting of the Scorpion: A Metallaboratrane. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2759-2761.	13.8	6
56	Oleophobic composite films based on multi-layer graphitic scaffolding. <i>New Journal of Chemistry</i> , 0, , .	2.8	2