Alan J Welch

List of Publications by Year
in descending order

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76	1,820	218677	302126
papers	citations	26 h-index	39 g-index

89	89	89	716
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bis(carboranes) and Their Derivatives. Structure and Bonding, 2021, , 163-195.	1.0	6
2	Anthracene and pyrene ruthenacarboranes. Journal of Organometallic Chemistry, 2021, 941, 121805.	1.8	0
3	Metalation of Bis(meta-carborane). Journal of Organometallic Chemistry, 2021, 950, 121980.	1.8	1
4	C,Câ€²-Ru to C,Bâ€²-Ru isomerisation in bis(phosphine)Ru complexes of [1,1â€²-bis(ortho-carborane)]. Chemical Communications, 2021, 58, 64-67.	4.1	1
5	Do Gold(III) Complexes Form Hydrogen Bonds? An Exploration of Au III Dicarboranyl Chemistry. Chemistry - A European Journal, 2020, 26, 939-947.	3.3	12
6	The Lewis acidity of borylcarboranes. Journal of Organometallic Chemistry, 2020, 907, 121057.	1.8	17
7	Bis(phosphine)hydridorhodacarborane Derivatives of 1,1â€²-Bis(ortho-carborane) and Their Catalysis of Alkene Isomerization and the Hydrosilylation of Acetophenone. Inorganic Chemistry, 2020, 59, 2011-2023.	4.0	17
8	Exopolyhedral Ligand Orientation Controls Diastereoisomer in Mixed-Metal Bis(Carboranes). Molecules, 2020, 25, 519.	3.8	6
9	Areneâ€“Ruthenium Complexes of 1,1â€²-Bis(ortho-carborane): Synthesis, Characterization, and Catalysis. Inorganic Chemistry, 2019, 58, 11751-11761.	4.0	22
10	On the Basicity of Carboranylphosphines. Inorganic Chemistry, 2019, 58, 14818-14829.	4.0	12
11	Crystal structure of 1-heptafluorotolyl-closo-1,2-dicarbadodecaborane. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 512-515.	0.5	1
12	Mixed-ligand (triphenylphosphine)ruthenium complexes of diphenylcarborane by ligand manipulation and an asymmetric, bimolecular â€œsymbioticâ€•cluster. Journal of Organometallic Chemistry, 2018, 865, 65-71.	1.8	9
13	Exploiting the Electronic Tuneability of Carboranes as Supports for Frustrated Lewis Pairs. Molecules, 2018, 23, 3099.	3.8	7
14	Heterometalation of 1,1â€²-Bis(ortho-carborane). Inorganic Chemistry, 2018, 57, 8002-8011.	4.0	14
15	Double deboronation and homometalation of 1,1â€²-bis(ortho-carborane). Dalton Transactions, 2017, 46, 1811-1821.	3.3	20
16	Balancing Steric and Electronic Effects in Carbonyl-Phosphine Molybdacarboranes. European Journal of Inorganic Chemistry, 2017, 2017, 4581-4588.	2.0	5
17	Large, weakly basic bis(carboranyl)phosphines: an experimental and computational study. Dalton Transactions, 2017, 46, 5218-5228.	3.3	18
18	What Can We Learn from the Crystal Structures of Metallacarboranes?. Crystals, 2017, 7, 234.	2.2	22

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19	14â€Vertex Heteroboranes with 14 Skeletal Electron Pairs: An Experimental and Computational Study. Angewandte Chemie, 2016, 128, 8848-8852.	2.0	2
20	14â€Vertex Heteroboranes with 14 Skeletal Electron Pairs: An Experimental and Computational Study. Angewandte Chemie - International Edition, 2016, 55, 8706-8710.	13.8	14
21	Steric versus electronic factors in metallacarborane isomerisation: nickelacarboranes with 3,1,2-, 4,1,2- and 2,1,8-NiC2B9 architectures and pendant carborane groups, derived from 1,1â€²-bis(o-carborane). Dalton Transactions, 2016, 45, 15013-15025.	3.3	17
22	Carborane Substituents Promote Direct Electrophilic Insertion over Reductionâ€“Metalation Reactions. Angewandte Chemie - International Edition, 2016, 55, 4596-4599.	13.8	19
23	Further studies of the Enhanced Structural Carborane Effect: tricarbonylruthenium and related derivatives of benzocarborane, dihydrobenzocarborane and biphenylcarborane. Dalton Transactions, 2016, 45, 11742-11752.	3.3	9
24	Carborane Substituents Promote Direct Electrophilic Insertion over Reductionâ€“Metalation Reactions. Angewandte Chemie, 2016, 128, 4672-4675.	2.0	3
25	Unprecedented flexibility of the 1,1â€²-bis(o-carborane) ligand: catalytically-active species stabilised by B-agostic Bâ€“Hâ‡€Ru interactions. Dalton Transactions, 2016, 45, 1127-1137.	3.3	40
26	Facile synthesis of closo-nido bis(carborane) and its highly regioselective halogenation. Journal of Organometallic Chemistry, 2016, 805, 1-5.	1.8	17
27	Developing nitrosocarborane chemistry. Dalton Transactions, 2016, 45, 3635-3647.	3.3	13
28	1,1â€²-Bis(ortho -carborane) as a Î² 2 co-ligand. Journal of Organometallic Chemistry, 2015, 798, 36-40.	1.8	19
29	Icosahedral metallacarborane/carborane species derived from 1,1â€²-bis(o-carborane). Dalton Transactions, 2015, 44, 5628-5637.	3.3	34
30	Isomerisation of nido-[C₂B₁₀H₁₂]^{2â^’} dianions: unprecedented rearrangements and new structural motifs in carborane cluster chemistry. Chemical Science, 2015, 6, 3117-3128.	7.4	24
31	Reduction-induced facile isomerisation of metallacarboranes: synthesis and crystallographic characterisation of 4-Cp-4,1,2-closo-CoC2B9H11. Dalton Transactions, 2015, 44, 15417-15419.	3.3	4
32	Synthesis and crystal structures of theracemicandmesoforms of [1-{1â€²-4â€²-cyclopentadienyl-4â€²-cobalta-1â€²,12â€²-dicarba-closo-dodecaboranyl(10)}-4-cyclopentadienyl-4-cobalta-1,12-di the former as its tetrahydrofuran disolvate. Acta Crystallographica Section C, Structural Chemistry, 2015, 71, 793-798.	0.5	5
33	Crystal structure of a second polymorph of 2-cyclopentadienyl-1,7-dicarba-2-cobalta-closo-dodecaborane(11). Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, m141-m142.	0.5	2
34	The exopolyhedral ligand orientation (ELO) in 3-(nitrato-ÎºO)-3,3-bis(triphenylphosphane-ÎºP)-3-rhoda-1,2-dicarba-closo-dodecaborane(11) dichloromethane 2.2-solvate. Acta Crystallographica Section C, Structural Chemistry, 2015, 71, 461-464.	0.5	0
35	Definitive crystal structure of 1,1â€²-bis[1,2-dicarba-closo-dodecaborane(11)]. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, 462-465.	0.2	11
36	Asymmetric 1,8/13,2,x-M2C2B1014-vertex metallacarboranes by direct electrophilic insertion reactions; the VCD and BHD methods in critical analysis of cage C atom positions. Dalton Transactions, 2014, 43, 5095-5105.	3.3	38

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37	How to Make 8,1,2â€closoâ€MC₂B₉ Metallacarboranes. Angewandte Chemie - International Edition, 2014, 53, 12222-12225.	13.8	18
38	Crystal structure of 1,1â€²-bis[1,7-dicarba-closo-dodecaborane(11)]. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, 376-378.	0.2	1
39	The VCD method â€“ a simple and reliable way to distinguish cage C and B atoms in (hetero)carborane structures determined crystallographically. Dalton Transactions, 2013, 42, 645-664.	3.3	53
40	The synthesis and characterisation of homo- and heterobimetallic 1,14,2,9- and 1,14,2,10-M₂C₂B₁₀14-vertex metallacarboranes. Dalton Transactions, 2013, 42, 671-679.	3.3	15
41	Icosahedral and supraicosahedral naphthalene ruthenacarboranes. Journal of Organometallic Chemistry, 2012, 721-722, 78-84.	1.8	10
42	Facile Isomerization and Unprecedented Decarbonation of Metallacarboranes with Fluorinated Aryl Substituents. Organometallics, 2012, 31, 2523-2525.	2.3	8
43	Synthesis and/or molecular structures of some simple 2,1,7- and 2,1,12-ruthena- and cobaltacarboranes. Collection of Czechoslovak Chemical Communications, 2010, 75, 853-869.	1.0	14
44	Roomâ€Temperature Cï£¿C Bond Cleavage of an Arene by a Metallacarborane. Angewandte Chemie - International Edition, 2010, 49, 4943-4945.	13.8	73
45	The first supraicosahedral bis(heteroborane). Chemical Communications, 2010, 46, 7394.	4.1	32
46	Supraicosahedral indenyl cobaltacarboranes. Dalton Transactions, 2010, 39, 5286.	3.3	24
47	Exopolyhedral ligand flipping on isomerisation of novel supraicosahedral stannacarboranes. Chemical Communications, 2009, , 5403.	4.1	10
48	Symmetric and asymmetric 13-vertex bimetallacarboranes by polyhedral expansion. Chemical Communications, 2007, , 2243.	4.1	27
49	A 15-Vertex Heteroborane. Angewandte Chemie - International Edition, 2006, 45, 4313-4316.	13.8	73
50	Fourteen-vertex homo- and heterobimetallic metallacarboranes. Chemical Communications, 2005, , 1917.	4.1	34
51	Synthetic, spectroscopic, computational and structural studies of some 13-vertex ruthenacarboranes. Dalton Transactions, 2005, , 1716.	3.3	33
52	Nickelation of [3-Et-7,8-Ph2-7,8-nido-C2B9H8]2?: synthesis and characterization of 1,2 ? 1,2 and 1,2 ? 1,7 isomerized products. Applied Organometallic Chemistry, 2003, 17, 518-524.	3.5	22
53	Supraicosahedral (metalla) carboranes. Pure and Applied Chemistry, 2003, 75, 1325-1333.	1.9	30
54	13-Vertex Carbacobaltaboranes: Synthesis and Molecular Structures of the 4,1,6-, 4,1,8- and 4,1,12-Isomers of Cp*CoC2B10H12. Collection of Czechoslovak Chemical Communications, 2002, 67, 991-1006.	1.0	33

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55	Flexibility in co-ordinative behaviour of N-(3-hydroxypropyl)ethane-1,2-diamine toward cadmium(ii) halides: syntheses, crystal structures and solid state thermal studies. Dalton Transactions RSC, 2002, , 1066-1071.	2.3	24
56	Self-assembly of carborane molecules via Câ€“Hâ‹¯I hydrogen bonding: the molecular and crystal structures of 3-I-1,2-closo-C2B10H11. Dalton Transactions RSC, 2002, , 3647-3648.	2.3	54
57	The first examples of Î·5-bonding of a carbaborylphosphine ligand to transition metals. Synthesis and characterisation of 7-{PPh2AuPPh3}-8-Ph-7,8-nido-C2B9H10, 1-{PPh2AuCl}-2-Ph-3-(p-cymene)-3,1,2-pseudocloso-RuC2B9H9 and 1-{PPh2AuCl}-2-Ph-3-(Î·-C5Me5)-3,1,2-pseudocloso-RhC2B9H9,. Journal of Organometallic Chemistry, 1999, [illegible]	1.8	26
58	Application of the NOE experiment to the analysis of boron hydride derivatives: confirming the assignments of the pseudocloso-complex [1,2-Ph2-3-{Cp*}-3,1,2-IrC2B9H9] (Cp*=Î·5-C5Me5) and the closo-compounds 1-Ph-1,2-C2B10H11 and 1-Ph-2-Me-1,2-C2B10H10. Inorganica Chimica Acta, 1999, 289, 125-133.	2.4	12
59	Synthesis and Reactivity of Dinuclear Complexes Containing Î·2-Phenylâ‹¯Metal Interactions. Crystal Structures of [NBu4][(C6F5)3Pt{Î¼-Ph2PCH2PPh(Î·2-Ph)}Pt(C6F5)2] and [NBu4][(C6F5)3Pt(Î¼-dppm)Pt(C6F5)2(CO)]. Inorganic Chemistry, 1999, 38, 1529-1534.	4.0	13
60	Sterically Encumbered, Charge-Compensated Metallacarboranes.â€Synthesis and Structures of Ruthenium Pentamethylcyclopentadienyl Derivatives. Organometallics, 1998, 17, 3227-3235.	2.3	33
61	Isolierung einer nichtâ€ikosaedrischen Zwischenstufe der Isomerisierung eines ikosaedrischen Metallacarborans. Angewandte Chemie, 1997, 109, 617-619.	2.0	3
62	Pentafluorophenyl Complexes of Platinum Containing Intramolecular PtÂ·Â·Â·H Hydrogen Bridging Interactions. Crystal Structures of [NBu4][Pt(C6F5)3(8-hydroxyquinaldine)] and [NBu4][Pt(C6F5)3(8-methylquinoline)]. Inorganic Chemistry, 1996, 35, 6009-6014.	4.0	58
63	1-Phenyl-1,2-dicarba-closo-dodecaborane, 1-Ph-1,2-closo-C2B10H11. Synthesis, Characterization, and Structure As Determined in the Gas Phase by Electron Diffraction, in the Crystalline Phase at 199 K by X-ray Diffraction, and byab InitioComputations. Inorganic Chemistry, 1996, 35, 1701-1708.	4.0	72
64	Amidophosphineâ‹¯Phosphinites:â€‰ Synthesis and Use in Rhodium-Based Asymmetric Hydrogenation of Activated Keto Compounds. Crystal Structure of Bis[(Î¼-chloro)((S)-2-((diphenylphosphino)oxy)-2-phenyl-) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 372 Td (N-(diphenylphosphino)-N-methy	2.3	65
65	Mixed Sandwich Carborane/Thiamacrocycle Compounds. Synthesis and Characterization of 1-Ph-3,3,3-[9]aneS3-Î·3-S,Sâ€˛,Sâ€˛â€˛-3,1,2-closo-RuC2B9H10 and 1,2-Ph2-3,3,3-[9]aneS3-Î·3-S,Sâ€˛,Sâ€˛â€˛-3,1,2-pseudocloso-RuC2B9H9,. Inorganic Chemistry, 1996, 35, 4548-4554.	4.0	34
66	Synthesis and characterisation of pseudocloso iridium and ruthenium diphenyl carbaboranes. Molecular structures of 1,2-Ph2-3-(Î·-C6H6)-3,1,2-pseudocloso-RuC2B9H9and 1,2-Ph2-3-(cym)-3,1,2-pseudocloso-RuC2B9H9(cym =p-cymene) and individual gauge for localised orbitals calculations on carbametallaboranes. Journal of the Chemical Society Dalton Transactions, 1996, , 231-237.	1.1	35
67	Synthesis, characterisation and molecular structures of the closo and pseudocloso heptamethylindenyl carbarhodaboranes 1-Ph-3-(Î·-C9Me7)-3,1,2-closo-RhC2B9H10and 1,2-Ph2-3-(Î·-C9Me7)-3,1,2-pseudocloso-RhC2B9H9. Experimental assignment of the11B NMR spectrum of a pseudocloso carbametallaborane. Journal of the Chemical Society Dalton Transactions, 1996, , 335-342.	1.1	30
68	Steric effects in heteroboranes. Part 7. Journal of Organometallic Chemistry, 1994, 481, 283-293.	1.8	53
69	Sterically induced opening of a closo carbametallaborane: synthesis and characterisation of 1,2-Ph2-3-(Î·-C5Me5)-3,1,2-pseudocloso-RhC2B9H9. Journal of Organometallic Chemistry, 1992, 430, C45-C50.	1.8	37
70	The structure of [7,8-C2B9H12]â€“; correction of a popular misconception. Journal of the Chemical Society Dalton Transactions, 1990, , 677-680.	1.1	53
71	Indenylmetallacarboranes. 1. The 18-valence-electron complex 3-(.eta.5-C9H7)-3,1,2-CoC2B9H11 and comparative molecular structures of this complex and 3-(.eta.5-C5H5)-3,1,2-CoC2B9H11. Organometallics, 1986, 5, 760-766.	2.3	56
72	Metallaborane chemistry. Part 14. Icosahedral Î·6-arena carbametallaboranes of iron and ruthenium; molecular structures of closo-[1-(Î·6-C6H5Me)-2,4-Me2-1,2,4-FeC2B9H9] and closo-[3-(Î·6-C6H6)-3,1,2-RuC2B9H11]. Journal of the Chemical Society Dalton Transactions, 1985, , 2343-2348.	1.1	33

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73	closo-Carbametallaboranes from direct insertion into nido-carbaboranes: the molecular structures of [6,6-(Et3P)2-1,2,6-C2CoB7H9] and [1,1-(Et3P)2-1,2,4-CoC2B8H10]. Journal of the Chemical Society Chemical Communications, 1981, , 652.	2.0	14
74	Metallaborane chemistry. Part 11. Lower rotational barriers in seven-vertex than in twelve-vertex carbaplatinaboranes: synthesis, and molecular and crystal structures of [closo-1,1-(Et3P)2-2,3-Me2-1,2,3-PtC2B4H4] and [closo-1,1-(Et3P)2-1,2,4-PtC2B4H6]. Journal of the Chemical Society Dalton Transactions, 1980, , 1186.	1.1	15
75	Molecular and crystal structure of 3,3-bis(triethylphosphine)-1,2-di-carba-3-platinadodecaborane(11), and molecular-orbital analysis of the â€˜slipâ€™ distortion in carbametallaboranes. Journal of the Chemical Society Dalton Transactions, 1978, , 1363-1374.	1.1	93
76	Metallaborane chemistry. Part II. Molecular and crystal structure of 1,1 -bis(dimethylphenylphosphine)-2,4-dimethyl-2,4-dicarba-1-platina-closo-dodecaborane. Journal of the Chemical Society Dalton Transactions, 1975, , 1473.	1.1	14