Simon Aldridge

List of Publications by Year
in descending order

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226 papers	11,398 citations	29994 54 h-index	40881 93 g-index
276 all docs	276 docs citations	276 times ranked	4963 citing authors

#	Article	IF	Citations
1	Fluoride Ion Complexation and Sensing Using Organoboron Compounds. Chemical Reviews, 2010, 110, 3958-3984.	23.0	996
2	A Stable Two-Coordinate Acyclic Silylene. Journal of the American Chemical Society, 2012, 134, 6500-6503.	6.6	387
3	Hydrides of the Main-Group Metals:â€‰ New Variations on an Old Theme. Chemical Reviews, 2001, 101, 3305-3366.	23.0	355
4	Transition metal boryl and borylene complexes: substitution and abstraction chemistry. Coordination Chemistry Reviews, 2004, 248, 535-559.	9.5	332
5	Synthesis, structure and reaction chemistry of a nucleophilic aluminyl anion. Nature, 2018, 557, 92-95.	13.7	259
6	Reversible, Room-Temperature Câ€”C Bond Activation of Benzene by an Isolable Metal Complex. Journal of the American Chemical Society, 2019, 141, 11000-11003.	6.6	172
7	Cationic Terminal Borylenes by Halide Abstraction:Â Synthesis and Spectroscopic and Structural Characterization of an FeB Double Bond. Journal of the American Chemical Society, 2003, 125, 6356-6357.	6.6	148
8	Molecular Main Group Metal Hydrides. Chemical Reviews, 2021, 121, 12784-12965.	23.0	147
9	Eâ€“H Bond Activation of Ammonia and Water by a Geometrically Constrained Phosphorus(III) Compound. Angewandte Chemie - International Edition, 2015, 54, 13758-13763.	7.2	142
10	Enabling and Probing Oxidative Addition and Reductive Elimination at a Group 14 Metal Center: Cleavage and Functionalization of Eâ€“H Bonds by a Bis(boryl)stannylene. Journal of the American Chemical Society, 2016, 138, 4555-4564.	6.6	142
11	Transition metal borylene complexes: boron analogues of classical organometallic systems. Chemical Communications, 2009, , 1157.	2.2	141
12	Dehydrogenation of Saturated CC and BN Bonds at Cationic N-Heterocyclic Carbene Stabilized M(III) Centers (M = Rh, Ir). Journal of the American Chemical Society, 2010, 132, 10578-10591.	6.6	141
13	A nucleophilic gold complex. Nature Chemistry, 2019, 11, 237-241.	6.6	139
14	A Generic Oneâ€Pot Route to Acyclic Twoâ€Coordinate Silylenes from Silicon(IV) Precursors: Synthesis and Structural Characterization of a Silylsilylene. Angewandte Chemie - International Edition, 2013, 52, 568-571.	7.2	138
15	The Aluminyl Anion: A New Generation of Aluminium Nucleophile. Angewandte Chemie - International Edition, 2021, 60, 1702-1713.	7.2	137
16	Cooperative Bond Activation and Catalytic Reduction of Carbon Dioxide at a Group 13 Metal Center. Angewandte Chemie - International Edition, 2015, 54, 5098-5102.	7.2	135
17	Amidinatoâ€“ and Guanidinatoâ€“Cobalt(I) Complexes: Characterization of Exceptionally Short Coâ€“Co Interactions. Angewandte Chemie - International Edition, 2009, 48, 7406-7410.	7.2	129
18	FeB Double Bonds:Â Synthetic, Structural, and Reaction Chemistry of Cationic Terminal Borylene Complexes. Organometallics, 2004, 23, 2911-2926.	1.1	119

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19	Rhodium and Iridium Aminoborane Complexes: Coordination Chemistry of BN Alkene Analogues. Angewandte Chemie - International Edition, 2010, 49, 921-925.	7.2	112
20	Selective Electrochemical Detection of Hydrogen Fluoride by Ambiphilic Ferrocene Derivatives. Angewandte Chemie - International Edition, 2005, 44, 3606-3609.	7.2	110
21	A stable heavier group 14 analogue of vinylidene. Nature Chemistry, 2016, 8, 1022-1026.	6.6	110
22	Group 3 and Lanthanide Boryl Compounds: Syntheses, Structures, and Bonding Analyses of Scâ^'B, Yâ^'B, and Luâ^'B Ïƒ-Coordinated NHC Analogues. Journal of the American Chemical Society, 2011, 133, 3836-3839.	6.6	102
23	Stable GaX2, InX2 and TlX2 radicals. Nature Chemistry, 2014, 6, 315-319.	6.6	101
24	Transition Metal Boryl Complexes. , 2008, , 29-122.		97
25	Stabilization of a two-coordinate, acyclic diaminosilylene (ADASi): completion of the series of isolable diaminotetrylenes, :E(NR₂)₂(E = group 14 element). Chemical Communications, 2016, 52, 1717-1720.	2.2	97
26	A Systematic Study of Structure and Eâ^'H Bond Activation Chemistry by Sterically Encumbered Germylene Complexes. Chemistry - A European Journal, 2016, 22, 11685-11698.	1.7	94
27	Colorimetric Fluoride Ion Sensing by Polyborylated Ferrocenes:â€‰ Structural Influences on Thermodynamics and Kinetics. Inorganic Chemistry, 2008, 47, 793-804.	1.9	92
28	Evaluation of Electronics, Electrostatics and Hydrogen Bond Cooperativity in the Binding of Cyanide and Fluoride by Lewis Acidic Ferrocenylboranes. Inorganic Chemistry, 2010, 49, 157-173.	1.9	89
29	AND/NOT Sensing of Fluoride and Cyanide Ions by Ferroceneâ€Đerivatised Lewis Acids. Chemistry - A European Journal, 2008, 14, 7525-7529.	1.7	87
30	Synthesis of Novel Molybdaboranes from (Î·5-C5R5)MoCln Precursors (R = H, Me; n = 1, 2, 4). Journal of the American Chemical Society, 1998, 120, 2586-2598.	6.6	86
31	Cationic Terminal Borylene Complexes: A Synthetic and Mechanistic Investigation of Mï£¾B Metathesis Chemistry. Angewandte Chemie - International Edition, 2005, 44, 7457-7460.	7.2	85
32	Coordination and Activation of the BF Molecule. Angewandte Chemie - International Edition, 2009, 48, 3669-3672.	7.2	83
33	Catalytic Bâ€“N Dehydrogenation Using Frustrated Lewis Pairs: Evidence for a Chain-Growth Coupling Mechanism. Journal of the American Chemical Society, 2016, 138, 3306-3309.	6.6	82
34	Sterically Encumbered Iridium Bis(N-heterocyclic carbene) Systems: Multiple Câ^'H Activation Processes and Isomeric Normal/Abnormal Carbene Complexes. Organometallics, 2009, 28, 3059-3066.	1.1	78
35	Trapping and Reactivity of a Molecular Aluminium Oxide Ion. Angewandte Chemie - International Edition, 2019, 58, 17265-17268.	7.2	78
36	Analysis of Bonding in Cyclopentadienyl Transition-Metal Boryl Complexes. Organometallics, 2002, 21, 1146-1157.	1.1	77

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37	Reduction of Carbon Oxides by an Acyclic Silylene: Reductive Coupling of CO. Angewandte Chemie - International Edition, 2019, 58, 1808-1812.	7.2	76
38	Carbon Monoxide Activation by a Molecular Aluminium Imide: Câ^'O Bond Cleavage and Câ^'C Bond Formation. Angewandte Chemie - International Edition, 2020, 59, 4897-4901.	7.2	76
39	Cationic Terminal Borylene Complexes: Structure/Bonding Analysis and [4+1] Cycloaddition Reactivity of a BN Vinylidene Analogue. Angewandte Chemie - International Edition, 2006, 45, 6118-6122.	7.2	75
40	Structures and Aggregation of the Methylamineâ^'Borane Molecules, MenH3â^'nNÂ·BH3 (n = 1â^'3), Studied by X-ray Diffraction, Gas-Phase Electron Diffraction, and Quantum Chemical Calculations. Journal of the American Chemical Society, 2009, 131, 2231-2243.	6.6	75
41	Facile Reversibility by Design: Tuning Small Molecule Capture and Activation by Single Component Frustrated Lewis Pairs. Journal of the American Chemical Society, 2015, 137, 12227-12230.	6.6	75
42	Cluster Expansion Reactions of Group 6 Metallaboranes. Syntheses, Crystal Structures, and Spectroscopic Characterizations of (Cp*Cr)2B5H9, (Cp*Cr)2B4H8Fe(CO)3, (Cp*Cr)2B4H7Co(CO)3, and (Cp*Mo)2B5H9Fe(CO)3. Inorganic Chemistry, 1998, 37, 928-940.	1.9	72
43	Fluoride anion binding by cyclic boronic esters: influence of backbone chelate on receptor integrity. Dalton Transactions, 2006, , 3660.	1.6	70
44	Exploiting Electrostatics To Generate Unsaturation: Oxidative Geï£¾E Bond Formation Using a Non Ï€â€Donor Stabilized [R(L)Ge:]⁺ Cation. Angewandte Chemie - International Edition, 2016, 55, 378-382.	7.2	68
45	Utilisation of a lithium boryl as a reducing agent in low oxidation state group 15 chemistry: synthesis and characterisation of an amido-distibene and a boryl-dibismuthene. Chemical Communications, 2015, 51, 7128-7131.	2.2	67
46	The coordination chemistry of boryl and borate substituted cyclopentadienyl ligands. Coordination Chemistry Reviews, 2003, 244, 71-92.	9.5	66
47	Complexes of a gallium heterocycle with transition metal dicyclopentadienyl and cyclopentadienylcarbonyl fragments, and with a dialkylmanganese compound. Dalton Transactions, 2006, , 3313.	1.6	66
48	Carbonyl analogues? Analysis of Feâ€“E (E = B, Al, Ga) bonding in cationic terminal diyl complexes by density functional theory. Dalton Transactions, 2004, , 2649-2654.	1.6	65
49	A Group 13/Group 17 Analogue of CO and N₂: Coordinative Trapping of the GaI Molecule. Journal of the American Chemical Society, 2008, 130, 5449-5451.	6.6	60
50	Heavy metal boryl chemistry: complexes of cadmium, mercury and lead. Chemical Communications, 2014, 50, 3841-3844.	2.2	60
51	Cationic Terminal Borylene Complexes: Interconversion of Amino and Alkoxy Borylenes by an Unprecedented Meerweinâ€“Ponndorf Hydride Transfer. Angewandte Chemie - International Edition, 2006, 45, 3513-3516.	7.2	58
52	Modelling fundamental areneâ€“borane contacts: spontaneous formation of a dibromoborenium cation driven by interaction between a borane Lewis acid and an arene Ï€ system. Chemical Communications, 2011, 47, 12295.	2.2	57
53	Reactivity of Boryl- and Silyl-Substituted Carbenoids toward Alkynes: Insertion and Cycloaddition Chemistry. Organometallics, 2015, 34, 2126-2129.	1.1	57
54	Dimethylamine borane dehydrogenation chemistry: syntheses, X-ray and neutron diffraction studies of 18-electron aminoborane and 14-electron aminoboryl complexes. Chemical Communications, 2012, 48, 8096.	2.2	56

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55	Expandedâ€Ring Nâ€Heterocyclic Carbenes for the Stabilization of Highly Electrophilic Gold(I) Cations. Chemistry - A European Journal, 2014, 20, 16721-16731.	1.7	55
56	Catalytic Borylation using an Airâ€Stable Zinc Boryl Reagent: Systematic Access to Elusive Acylboranes. Angewandte Chemie - International Edition, 2015, 54, 14159-14163.	7.2	55
57	Half-Sandwich Group 8 Borylene Complexes: Synthetic and Structural Studies and Oxygen Atom Abstraction Chemistry. Organometallics, 2009, 28, 2947-2960.	1.1	54
58	Some tetrahydroborate derivatives of aluminium: crystal structures of dimethylaluminium tetrahydroborate and the Î± and Î² phases of aluminium tris(tetrahydroborate) at low temperature. Journal of the Chemical Society Dalton Transactions, 1997, , 1007-1012.	1.1	53
59	Halide Abstraction as a Route to Cationic Transition-Metal Complexes Containing Two-Coordinate Gallium and Indium Ligand Systems. Organometallics, 2005, 24, 5891-5900.	1.1	53
60	Probing the Intrinisic Structure and Dynamics of Aminoborane Coordination at Late Transition Metal Centers: Mono(Ïƒ-BH) Binding in [CpRu(PR₃)₂(H₂BNCy₂)]⁺. Journal of the American Chemical Society, 2011, 133, 8494-8497.	6.6	53
61	An Acid-Free Anionic Oxoborane Isoelectronic with Carbonyl: Facile Access and Transfer of a Terminal Bâ•O Double Bond. Journal of the American Chemical Society, 2019, 141, 8073-8077.	6.6	53
62	Synthesis and Characterization of Amidinateâ€“Iron(I) Complexes: Analogies with Î²â€Diketiminate Chemistry. Chemistry - A European Journal, 2008, 14, 8477-8480.	1.7	51
63	Feâ€“Ga multiple bonding? Synthesis, spectroscopic and structural characterization of a transition metal complex containing a cationic two-coordinate gallium centre. Chemical Communications, 2004, , 1732-1733.	2.2	50
64	Iridiumâ€Mediated Borylation of Benzylic Cï£¿H Bonds by Borohydride. Angewandte Chemie - International Edition, 2011, 50, 1359-1362.	7.2	50
65	Cationic Terminal Gallylene Complexes by Halide Abstraction: Coordination Chemistry of a Valence Isoelectronic Analogue of CO and N₂. Journal of the American Chemical Society, 2008, 130, 16111-16124.	6.6	49
66	Ïƒ-Alane Complexes of Chromium, Tungsten, and Manganese. Journal of the American Chemical Society, 2012, 134, 2551-2554.	6.6	49
67	Formation of sub-valent carbenoid ligands by metal-mediated dehydrogenation chemistry: coordination and activation of H2Ga{(NDippCMe)2CH}. Chemical Science, 2013, 4, 4245.	3.7	49
68	On the Viability of Catalytic Turnover via Alâˆ’O/Bâˆ’H Metathesis: The Reactivity of Î²â€Diketiminate Aluminium Hydrides towards CO₂ and Boranes. Chemistry - A European Journal, 2018, 24, 13624-13635.	1.7	49
69	Synthetic and reaction chemistry of heteroatom stabilized boryl and cationic borylene complexes. Dalton Transactions, 2006, , 399-410.	1.6	48
70	Directed Synthesis of Chromium and Molybdenum Metallaborane Clusters. Preparation and Characterization of (Cp*Cr)2B5H9, (Cp*Mo)2B5H9, and (Cp*MoCl)2B4H10. Journal of the American Chemical Society, 1997, 119, 2339-2340.	6.6	47
71	Cationic Terminal Aminoborylene Complexes: Controlled Stepwise Insertion into Mï£¾B and Bï£¾N Double Bonds. Angewandte Chemie - International Edition, 2007, 46, 2043-2046.	7.2	47
72	Salt metathesis for the synthesis of Mâ€“Al and Mâ€“Hâ€“Al bonds. Dalton Transactions, 2013, 42, 249-258.	1.6	47

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73	Coordination and Activation of Alï£¿H and Gaï£¿H Bonds. Chemistry - A European Journal, 2014, 20, 17624-17634.	1.7	47
74	[(Î·5-C5H5)Fe(CO)2]2B(2,4,6-Me3C6H2): synthesis, spectroscopic and structural characterization of a transition metal complex containing an unsupported bridging borylene ligand. Chemical Communications, 2002, , 856-857.	2.2	46
75	Arene Câ^'H Activation at Aluminium(I): meta Selectivity Driven by the Electronics of S_NAr Chemistry. Angewandte Chemie - International Edition, 2020, 59, 20376-20380.	7.2	46
76	Probing the Extremes of Covalency in Mâ^'Al bonds: Lithium and Zinc Aluminyl Compounds. Angewandte Chemie - International Edition, 2021, 60, 22301-22306.	7.2	46
77	The Aluminyl Anion: A New Generation of Aluminium Nucleophile. Angewandte Chemie, 2021, 133, 1726-1737.	1.6	45
78	Acidâ€"Base Free Main Group Carbonyl Analogues. Angewandte Chemie - International Edition, 2021, 60, 8626-8648.	7.2	45
79	Reactivity of Cationic Terminal Borylene Complexes: Novel Mechanisms for Insertion and Metathesis Chemistry Involving Strongly Lewis Acidic Ligand Systems. Organometallics, 2009, 28, 2961-2975.	1.1	42
80	Borane to Boryl Hydride to Borylene Dihydride: Explicit Demonstration of Boron-to-Metal Î±-Hydride Migration in Aminoborane Activation. Journal of the American Chemical Society, 2011, 133, 11500-11503.	6.6	42
81	Oxidative Bond Formation and Reductive Bond Cleavage at Main Group Metal Centers: Reactivity of Five-Valence-Electron MX₂ Radicals. Journal of the American Chemical Society, 2014, 136, 10902-10905.	6.6	42
82	Coinage metal aluminyl complexes: probing regiochemistry and mechanism in the insertion and reduction of carbon dioxide. Chemical Science, 2021, 12, 13458-13468.	3.7	42
83	Structural snapshots of concerted double Eâ€"H bond activation at a transition metal centre. Nature Chemistry, 2017, 9, 1256-1262.	6.6	41
84	Toward Cationic Gallane- and Indanediyl Complexes:Â Synthetic Approaches to Three-Coordinate Halogallyl and -indyl Precursors. Organometallics, 2005, 24, 5879-5890.	1.1	40
85	Comparative structural and thermodynamic studies of fluoride and cyanide binding by PhBMes2 and related triarylborane Lewis acids. New Journal of Chemistry, 2010, 34, 1652.	1.4	40
86	Alâ€"H Ïƒ-bond coordination: expanded ring carbene adducts of AlH3 as neutral bi- and tri-functional donor ligands. Chemical Communications, 2013, 49, 5547.	2.2	40
87	Circumventing Redox Chemistry: Synthesis of Transition Metal Boryl Complexes from a Boryl Nucleophile by Decarbonylation. Journal of the American Chemical Society, 2014, 136, 15730-15741.	6.6	40
88	Synthetic, structural and reaction chemistry of transition metal complexes containing the mesitylborylene ligand. Dalton Transactions RSC, 2002, , 3851.	2.3	39
89	Synthesis of polymeric and macrocyclic Lewis acids: influence of backbone on degree of aggregation. Dalton Transactions, 2007, , 3486.	1.6	39
90	Cobalt Boryl Complexes: Enabling and Exploiting Migratory Insertion in Baseâ€Metalâ€Mediated Borylation. Angewandte Chemie - International Edition, 2015, 54, 9586-9590.	7.2	38

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91	An Nâ€Heterocyclic Boryloxy Ligand Isoelectronic with Nâ€Heterocyclic Imines: Access to an Acyclic Dioxysilylene and its Heavier Congeners. Angewandte Chemie - International Edition, 2019, 58, 4847-4851.	7.2	38
92	Electronic Delocalization in Two and Three Dimensions: Differential Aggregation in Indium â€œMetalloidâ€•Clusters. Angewandte Chemie - International Edition, 2017, 56, 15098-15102.	7.2	37
93	Highly Electronâ€Rich Î²â€Diketiminato Systems: Synthesis and Coordination Chemistry of Aminoâ€Functionalized â€œNâ€•nacnacâ€•Ligands. Chemistry - A European Journal, 2017, 23, 5830-5841.	1.7	36
94	Coordination chemistry of group 13 monohalides. Chemical Science, 2011, 2, 601.	3.7	35
95	A Î²â€Diketiminateâ€Stabilized Silaâ€Acyl Chloride: Systematic Access to Baseâ€Stabilized Silicon Analogues of Classical Carbonyl Compounds. Angewandte Chemie - International Edition, 2018, 57, 13907-13911.	7.2	35
96	Influence of Ligand Steric Bulk in the Synthesis of Transition-Metal Borylene Complexes. Organometallics, 2003, 22, 4213-4217.	1.1	34
97	Insertion reactions of dicyclohexylcarbodiimide with aminoboranes, -boryls and -borylenes. Dalton Transactions, 2007, , 4405.	1.6	33
98	Nâ€“H cleavage vs. Werner complex formation: reactivity of cationic group 14 tetrelenes towards amines. Chemical Communications, 2020, 56, 4684-4687.	2.2	33
99	Synthesis and characterisation of complexes of Group 13 metal amidinate heterocycles with the CpFe(CO)2 fragment. Dalton Transactions, 2006, , 5357.	1.6	32
100	Contrasting reactivity of anionic boron- and gallium-containing NHC analogues: Eâ€“C vs. Eâ€“M bond formation (E = B, Ga). Chemical Communications, 2010, 46, 8546.	2.2	32
101	On the Ambiphilic Reactivity of Geometrically Constrained Phosphorus(III) and Arsenic(III) Compounds: Insights into Their Interaction with Ionic Substrates. Chemistry - A European Journal, 2016, 22, 15712-15724.	1.7	32
102	Acyclic 1,2-dimagnesioethanes/-ethene derived from magnesium(<scp>i</scp>) compounds: multipurpose reagents for organometallic synthesis. Chemical Science, 2019, 10, 3208-3216.	3.7	32
103	Facile syntheses of dissymmetric ferrocene-functionalized Lewis acids and acidâ€“base pairs. Chemical Communications, 2009, , 7288.	2.2	31
104	Bulky guanidinato and amidinato zinc complexes and their comparative stabilities. Dalton Transactions, 2010, 39, 8788.	1.6	31
105	Platinum Complexes Featuring Terminally Bound Ga+ and In+ Ions. Angewandte Chemie - International Edition, 2006, 45, 8097-8099.	7.2	30
106	On the Redox Reactivity of a Geometrically Constrained Phosphorus(III) Compound. Chemistry - A European Journal, 2017, 23, 15455-15465.	1.7	30
107	Responses to unsaturation in iridium mono(N-heterocyclic carbene) complexes: synthesis and oligomerization of [IIr(H)2Cl] and [IIr(H)2]+. Chemical Communications, 2011, 47, 2523.	2.2	28
108	Hydrogen shuttling: synthesis and reactivity of a 14-electron iridium complex featuring a bis(alkyl) tethered N-heterocyclic carbene ligand. Chemical Communications, 2012, 48, 11999.	2.2	28

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109	Aminoborane Ïƒ Complexes: Significance of Hydride Co-ligands in Dynamic Processes and Dehydrogenative Borylene Formation. Organometallics, 2013, 32, 1583-1586.	1.1	28
110	Sterically Encumbered Iridium Bis(N-heterocyclic carbene) Complexes: Air-Stable 14-Electron Cations and Facile Degenerate Câ€“H Activation. Organometallics, 2012, 31, 8075-8078.	1.1	27
111	Activation of Protic, Hydridic and Apolar Eâˆ’H Bonds by a Borylâ€Substituted Ge^{II} Cation. Chemistry - A European Journal, 2020, 26, 306-315.	1.7	27
112	Reversible Câˆ’H Activation, Facile Câˆ’B/Bâˆ’H Metathesis and Apparent Hydroboration Catalysis by a Dimethylxantheneâ€Based Frustrated Lewis Pair. Chemistry - A European Journal, 2018, 24, 10531-10540.	1.7	26
113	Reactivity of the bis(pentafluorophenyl)boranes ClB(C6F5)2 and [HB(C6F5)2]n towards late transition metal reagents. Dalton Transactions, 2004, , 4030.	1.6	25
114	Syntheses of homochiral 1,2-ferrocene-functionalized Lewis acids and acid/base pairs. Journal of Organometallic Chemistry, 2011, 696, 2528-2532.	0.8	25
115	Coordination and Activation of EH Bonds (E=B, Al, Ga) at Transition Metal Centers. Advances in Organometallic Chemistry, 2015, , 1-38.	0.5	25
116	Trapping and Reactivity of a Molecular Aluminium Oxide Ion. Angewandte Chemie, 2019, 131, 17425-17428.	1.6	25
117	Approaching a â€œNakedâ€•Boryl Anion: Amide Metathesis as a Route to Calcium, Strontium, and Potassium Boryl Complexes. Angewandte Chemie - International Edition, 2021, 60, 2064-2068.	7.2	25
118	Coordination and Homologation of CO at Al(I): Mechanism and Chain Growth, Branching, Isomerization, and Reduction. Journal of the American Chemical Society, 2022, 144, 12942-12953.	6.6	25
119	Origins of Unsaturation in Group 6 Metallaboranes. Synthesis, Crystal Structure, and Molecular Orbital Calculations for (Cp*MoCl)2B3H7 (Cp* = Pentamethylcyclopentadienyl). Journal of the American Chemical Society, 1997, 119, 11120-11121.	6.6	24
120	Cp*TaCl2B4H8: synthesis, crystal structure and spectroscopic characterization of an air-stable, electronically unsaturated, chiral tantalaborane. Chemical Communications, 1998, , 207-208.	2.2	24
121	Bulky aryl functionalized carbazolyl ligands: amido alternatives to the 2,6-diarylphenyl ligand class?. Dalton Transactions, 2008, , 332-337.	1.6	24
122	Reduction of Carbon Oxides by an Acyclic Silylene: Reductive Coupling of CO. Angewandte Chemie, 2019, 131, 1822-1826.	1.6	24
123	Carbon Monoxide Activation by a Molecular Aluminium Imide: Câ¯O Bond Cleavage and Câ¯C Bond Formation. Angewandte Chemie, 2020, 132, 4927-4931.	1.6	24
124	Chemistry of metalÂâ€“Âboron double bonds. Main Group Chemistry, 2007, 5, 223-249.	0.4	23
125	Probing the influence of steric bulk on anion binding by triarylboranes: comparative studies of FcB(o-Tol)2, FcB(o-Xyl)2 and FcBMes2. Dalton Transactions, 2011, 40, 10345.	1.6	23
126	Frustrated Lewis Pairs as Molecular Receptors: Colorimetric and Electrochemical Detection of Nitrous Oxide. Angewandte Chemie - International Edition, 2013, 52, 14094-14097.	7.2	23

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127	Linking of metal centres through boryl ligands: synthesis, spectroscopic and structural characterisation of symmetrically bridged boryl complexes. Dalton Transactions RSC, 2002, , 2020-2026.	2.3	22
128	Generation of Cationic Two-Coordinate Group-13 Ligand Systems by Spontaneous Halide Ejection: Remarkably Nucleophile-Resistant (Dimethylamino)borylene Complexes. Journal of the American Chemical Society, 2010, 132, 4586-4588.	6.6	22
129	A molecular â€˜traffic lightâ€™: highly selective cyanide sensing in aqueous media by a CpFe(indenyl)-functionalized borane. Dalton Transactions, 2013, 42, 12836.	1.6	22
130	Modulating reactivity in iridium bis(N-heterocyclic carbene) complexes: influence of ring size on Eâ€“H bond activation chemistry. Dalton Transactions, 2014, 43, 12288-12298.	1.6	22
131	Lanthanide Complexes that Respond to Changes in Cyanide Concentration in Water. Angewandte Chemie - International Edition, 2017, 56, 7783-7786.	7.2	22
132	Boryl substituted group 13 metallylenes: complexes with an iron carbonyl fragment. Chemical Communications, 2017, 53, 149-152.	2.2	22
133	Experimental and quantum chemical studies of anionic analogues of N-heterocyclic carbenes. Dalton Transactions, 2018, 47, 7445-7455.	1.6	22
134	Generation of a Ï€â€Bonded Isomer of [P₄]^{4â^'}by Aluminyl Reduction of White Phosphorus and its Ammonolysis to PH₃. Angewandte Chemie - International Edition, 2021, 60, 26550-26554.	7.2	22
135	Synthetic, structural and reaction chemistry of N-heterocyclic germylene and stannylene compounds featuringN-boryl substituents. Dalton Transactions, 2019, 48, 11951-11960.	1.6	21
136	Tuning Main Group Redox Chemistry through Steric Loading: Subvalent Group 13 Metal Complexes of Carbazolyl Ligands. Chemistry - A European Journal, 2011, 17, 5381-5386.	1.7	20
137	Syntheses and Anion Binding Capabilities of Bis(diarylboryl) Ferrocenes and Related Systems. Organometallics, 2013, 32, 2674-2684.	1.1	20
138	Modern main group chemistry. Chemical Society Reviews, 2016, 45, 763-764.	18.7	20
139	Reactions of a phosphavinyl Grignard reagent with main group mono-halide compounds. Journal of Organometallic Chemistry, 2003, 665, 127-134.	0.8	19
140	Nature of Mâ^'Ga Bonds in Dihalogallyl Complexes (Î·⁵-C₅H₅)(Me₃P)₂M(GaX₂) (M) Tj ETQq0 0 0 rgBT /Over (X = Cl, Br, I): A DFT Study. Journal of Physical Chemistry A, 2010, 114, 12099-12105.	1.1	19
141	Nature of Mâ^'Ga Bonds in Cationic Metal-Gallylene Complexes of Iron, Ruthenium, and Osmium, [(Î·5-C5H5)(L)2M(GaX)]+: A Theoretical Study. Inorganic Chemistry, 2011, 50, 1798-1807.	1.9	19
142	Dimethylindium octahydrotriborate, Me2InB3H3: synthesis, crystal structure and spectroscopic properties of a volatile indium hydride. Chemical Communications, 1996, , 2055.	2.2	18
143	Substitution, abstraction and addition chemistry of low-coordinate gallium and indium ligand systems. Inorganica Chimica Acta, 2006, 359, 3693-3698.	1.2	17
144	Anion Recognition by Highly Sterically Encumbered 1,2-Diborylferrocenes. Organometallics, 2010, 29, 4762-4765.	1.1	17

#	Article	IF	Citations
145	Bulky N-heterocyclic carbene and pyridine donor adducts of Co(II) bromide: Influence on reactivity of stoichiometry, sterics and donor capability. Journal of Organometallic Chemistry, 2013, 741-742, 33-39.	0.8	17
146	Partnering a Threeâ€Coordinate Gallium Cation with a Hydroborate Counterâ€Ion for the Catalytic Hydrosilylation of CO 2. Chemistry - A European Journal, 2021, 27, 2138-2148.	1.7	17
147	Coordinative trapping of the boron Î²-diketiminato system [B(NMesCMe)2CH] via metal-templated synthesis. Chemical Communications, 2013, 49, 1509.	2.2	16
148	Synthetic, redox and coordination chemistry of bis(pentachlorophenyl)boryl ferrocene, FcB(C6Cl5)2. Journal of Organometallic Chemistry, 2014, 769, 11-16.	0.8	16
149	Probing the Extremes of Covalency in Mâ˜Al bonds: Lithium and Zinc Aluminyl Compounds. Angewandte Chemie, 2021, 133, 22475-22480.	1.6	16
150	Probing the Limits of Ligand Steric Bulk: Backbone Cï£¿H Activation in a Saturated Nâ€Heterocyclic Carbene. Chemistry - A European Journal, 2014, 20, 3825-3830.	1.7	15
151	A Î²â€Diketiminateâ€Stabilized Silaâ€Acyl Chloride: Systematic Access to Baseâ€Stabilized Silicon Analogues of Classical Carbonyl Compounds. Angewandte Chemie, 2018, 130, 14103-14107.	1.6	15
152	Nâ€nacnac Stabilized Tetrelenes: Formation of an N,Pâ€Heterocyclic Germylene via Câ€“C Bond Insertion. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 1238-1242.	0.6	15
153	Arene Câ˜H Activation at Aluminium(I): meta Selectivity Driven by the Electronics of S N Ar Chemistry. Angewandte Chemie, 2020, 132, 20556-20560.	1.6	15
154	The methylzinc hydroborate derivative [(MeZn)2B3H7]2: synthesis, crystal structure and vibrational spectra of an unprecedented cluster compound. Journal of the Chemical Society Chemical Communications, 1995, , 1363.	2.0	14
155	Methylzinc tetrahydroborate: physical and chemical properties and crystal structure at low temperature. Journal of the Chemical Society Dalton Transactions, 1996, , 853.	1.1	14
156	Substitution chemistry of sterically demanding boryl ligands. Applied Organometallic Chemistry, 2003, 17, 356-360.	1.7	14
157	Complementary anion binding by bidentate boron-containing Lewis acids. Journal of Organometallic Chemistry, 2005, 690, 2725-2731.	0.8	14
158	Exploitation of a Very Strongly Ïƒâ€Donating Sn^{II} Ligand: Synthesis of a Homoleptic, Octahedral Ni^{IV} Complex. Angewandte Chemie - International Edition, 2008, 47, 2348-2350.	7.2	14
159	Extending the Chain: Synthetic, Structural, and Reaction Chemistry of a BN Allenylidene Analogue. Angewandte Chemie - International Edition, 2011, 50, 8908-8911.	7.2	14
160	Anionic N-heterocyclic carbenes (NHCs): a versatile route to saturated NHCs bearing pendant weakly coordinating anions. Dalton Transactions, 2014, 43, 15279-15282.	1.6	14
161	Electronic Delocalization in Two and Three Dimensions: Differential Aggregation in Indium â€œMetalloidâ€•Clusters. Angewandte Chemie, 2017, 129, 15294-15298.	1.6	14
162	Successive Protonation of an Nâ€Heterocyclic Imine Derived Carbonyl: Superelectrophilic Dication Versus Masked Acylium Ion. Angewandte Chemie - International Edition, 2018, 57, 16559-16563.	7.2	14

#	Article	IF	Citations
163	Approaching a â€œNakedâ€•Boryl Anion: Amide Metathesis as a Route to Calcium, Strontium, and Potassium Boryl Complexes. Angewandte Chemie, 2021, 133, 2092-2096.	1.6	14
164	Intramolecular base-stabilised adducts of main group halides. New Journal of Chemistry, 2002, 26, 677-686.	1.4	13
165	Bridging the Gap between Coordination and Cluster Compounds: Unusual Bonding Modes for Zinc. Angewandte Chemie - International Edition, 2009, 48, 4109-4111.	7.2	13
166	Hydrogen-bonding motifs in the solid-state structure of ferroceneboronic acid. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, m441-m443.	0.2	12
167	A Gallium Hydride as an Oxidizing Agent: Direct Synthesis of Ir^V Complexes via Gaâ˜H Bond Activation. Chemistry - A European Journal, 2017, 23, 16906-16913.	1.7	12
168	Controlling Catenation in Germanium(I) Chemistry through Hemilability. Angewandte Chemie - International Edition, 2021, 60, 15606-15612.	7.2	12
169	Alkyne insertion into Cuâ€“Al bonds and selective functionalization to form copper acyl compounds. Chemical Communications, 2022, 58, 8274-8277.	2.2	12
170	Early versus late transition metals. Electronic structure of nido-2-CpMLnB4H8, CpMLn=CpTaCl2, CpWH3 and CpCo. Inorganica Chimica Acta, 1999, 289, 85-94.	1.2	11
171	Migratory insertion of [B(C6F5)2] into Câ€“H bonds: CO promoted transfer of the boryl fragment. Chemical Communications, 2006, , 2578-2580.	2.2	11
172	Reactions of â€˜Galâ€™ with organometallic transition metal halides. Inorganica Chimica Acta, 2008, 361, 449-456.	1.2	11
173	Interaction of In(I) and Tl(I) Cations with 2,6-Diaryl Pyridine Ligands: Cation Encapsulation within a Very Weakly Interacting N/Arene Host Environment. Inorganic Chemistry, 2012, 51, 13017-13022.	1.9	11
174	An Nâ€‹Heterocyclic Boryloxy Ligand Isoelectronic with Nâ€‹Heterocyclic Imines: Access to an Acyclic Dioxysilylene and its Heavier Congeners. Angewandte Chemie, 2019, 131, 4901-4905.	1.6	11
175	Colorimetric Metalâ€‹Free Detection of Carbon Monoxide: Reversible COâ€…Uptake by a BNB Frustrated Lewis Pair. Angewandte Chemie - International Edition, 2021, 60, 16416-16419.	7.2	11
176	Structural Snapshots in Reversible Phosphinidene Transfer: Synthetic, Structural, and Reaction Chemistry of a Snâ•P Double Bond. Journal of the American Chemical Society, 2022, 144, 8908-8913.	6.6	11
177	Anion binding by multidentate Lewis acids: a DFT study. Chemical Communications, 2001, , 231-232.	2.2	10
178	Acidâ€“Base Free Main Group Carbonyl Analogues. Angewandte Chemie, 2021, 133, 8708-8730.	1.6	10
179	Extension of conjugation: probing anion binding strength and reporter mechanisms in (phenyl)cyclopentadienyl and indenyl receptors. Dalton Transactions, 2015, 44, 13049-13059.	1.6	9
180	Reversible Oâ€“H bond activation by an intramolecular frustrated Lewis pair. Dalton Transactions, 2019, 48, 2896-2899.	1.6	9

#	Article	IF	Citations
181	Cooperative Nâ€“H bond activation by amido-Ge(<scp>ii</scp>) cations. Dalton Transactions, 2020, 49, 9495-9504.	1.6	9
182	Generation of a Ï€â€Bonded Isomer of [P 4] 4- by Aluminyl Reduction of White Phosphorus and its Ammonolysis to PH 3. Angewandte Chemie, 2021, 133, 26754.	1.6	9
183	Title is missing!. Journal of Chemical Crystallography, 2003, 33, 805-808.	0.5	8
184	[(Î·5-C5H5)Fe(CO)2GaI2Br]-. Main Group Metal Chemistry, 2005, 28, .	0.6	8
185	(Dimethylamino)borylene and Related Complexes of Electron-Rich Metal Fragments: Generation of Nucleophile-Resistant Cations by Spontaneous Halide Ejection. Organometallics, 2012, 31, 1092-1102.	1.1	8
186	A theoretical study of the bonding and charge distribution in cationic group 8 metal borylene and alylene complexes: Consequences for complex stability and reactivity. Polyhedron, 2012, 43, 131-139.	1.0	8
187	Bifunctional Indenylâ€Derived Receptors for Fluoride Chelation and Detection. Chemistry - A European Journal, 2015, 21, 11813-11824.	1.7	8
188	A zwitterionic hydrocarbon-soluble borenium ion based on a Î²-diketiminate backbone. Chemical Communications, 2017, 53, 5981-5984.	2.2	8
189	A Combined Experimental/Computational Study of the Mechanism of a Palladiumâ€Catalyzed Boraâ€Negishi Reaction. Chemistry - A European Journal, 2017, 23, 12655-12667.	1.7	8
190	Successive Protonation of an Nâ€Heterocyclic Imine Derived Carbonyl: Superelectrophilic Dication Versus Masked Acylium Ion. Angewandte Chemie, 2018, 130, 16797-16801.	1.6	8
191	Synthesis, structure and reactivity of terphenyl-substituted germylium-ylidene cations. Polyhedron, 2021, 196, 115006.	1.0	8
192	Controlling Oxidative Addition and Reductive Elimination at Tin(I) via Hemiâ€Lability. Angewandte Chemie - International Edition, 2022, 61, .	7.2	8
193	A crystalline radical cation derived from Thieleâ€™s hydrocarbon with redox range beyond 1â€‰V. Nature Communications, 2021, 12, 7052.	5.8	8
194	Crystallographic report:[(Î·5-C5H5)Fe(CO)2]2Ga3Cl3(OSiMe2OSiMe2O)2: a diiron complex of a tetracyclic trigallasiloxane. Applied Organometallic Chemistry, 2004, 18, 425-426.	1.7	7
195	Substituent effects on iron boryl and borylene systems: Unusual reactivity and spectroscopic properties. Journal of Organometallic Chemistry, 2013, 745-746, 487-493.	0.8	7
196	Reactions of a diborylstannylene with CO₂ and N₂O: diboration of carbon dioxide by a main group bis(boryl) complex. Dalton Transactions, 2021, 50, 9059-9067.	1.6	7
197	Synthesis and structural characterization of terminal (diisopropylamino)borylene complexes of group 8 metals. Main Group Chemistry, 2010, 9, 57-65.	0.4	6
198	Reversible borohydride formation from aluminium hydrides and {H(9-BBN)}₂: structural, thermodynamic and reactivity studies. Dalton Transactions, 2019, 48, 10845-10852.	1.6	6

#	Article	IF	Citations
199	Controlling Catenation in Germanium(I) Chemistry through Hemilability. Angewandte Chemie, 2021, 133, 15734-15740.	1.6	6
200	Methylzinc tetrahydroborate: investigation of the vapour phase by spectroscopic and quantum chemical techniques. Journal of Molecular Structure, 1998, 444, 29-46.	1.8	5
201	Influence of ligand backbone flexibility in group 4 metal complexes of tetradentate mixed tertiary amine/alkoxide ligands. New Journal of Chemistry, 2007, 31, 135-143.	1.4	5
202	Probing Conformational Strain in Multinuclear Lewis Acids: Synthesis, Spectroscopic and Structural Characterization of the Dinuclear Ferroceneboronic Ester (Î·5-C5H5)Fe(Î·5-C5H4)BO2C5H8O2B(Î·5-C5H4)Fe(Î·5-C5H5). Journal of Chemical Crystallography, 2010, 40, 156-159.	0.5	5
203	Frustrated Lewis pairs incorporating the bifunctional Lewis acid 1,1â€²-fc{B(C₆F₅)₂}₂: reactivity towards small molecules. Dalton Transactions, 2018, 47, 1588-1598.	1.6	5
204	trans-Bromohydridobis(triphenylphosphine)platinum toluene hemisolvate. Acta Crystallographica Section E: Structure Reports Online, 2003, 59, m584-m585.	0.2	4
205	Halide Abstraction by Na[B{C6H3(CF3)2-3,5}4]: Synthesis and Structural Characterization of the Rhodium(I) Cations [(Î·6-arene)Rh(PPh3)2]+ (Arene = benzene, toluene). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 2187-2189.	0.6	4
206	Rationalizing and Disrupting Fluxional Processes in Agostically Stabilized 14â€Electron Alkyliridium Hydride Complexes. European Journal of Inorganic Chemistry, 2014, 2014, 4877-4885.	1.0	4
207	Lanthanide Complexes that Respond to Changes in Cyanide Concentration in Water. Angewandte Chemie, 2017, 129, 7891-7894.	1.6	4
208	Probing the non-innocent nature of an amino-functionalised Î²-diketiminate ligand in silylene/iminosilane systems. Dalton Transactions, 2020, 49, 8701-8709.	1.6	4
209	Reversible Uptake of CO₂ by Pincer Ligand Supported Dimetallynes. Angewandte Chemie - International Edition, 2022, 61, .	7.2	4
210	Borylated Nâ€Heterocyclic Carbenes: Rearrangement and Chemical Trapping. Chemistry - A European Journal, 2019, 25, 2556-2568.	1.7	3
211	Colorimetric Metalâ€Free Detection of Carbon Monoxide: Reversible COâ€…Uptake by a BNB Frustrated Lewis Pair. Angewandte Chemie, 2021, 133, 16552-16555.	1.6	3
212	Crystallographic report: (Î·5-C5Me5)Fe(CO)2(BOCH2CH2CH2O): an organoiron complex containing the (trimethyleneglycolato)boryl ligand. Applied Organometallic Chemistry, 2005, 19, 181-182.	1.7	2
213	Main group chemistry: from molecules to materials. Dalton Transactions, 2008, , 3377.	1.6	2
214	Crystal Structure of 1,4-Bis(triiodogallium(III))-1,4-bis(2,4,6-tri-tert-butylphenyl)-1,4-diphosphabuta-1,3-diene. Analytical Sciences: X-ray Structure Analysis Online, 2008, 24, X109-X110.	0.1	2
215	A Xantheneâ€Based Monoâ€Anionic PON Ligand: Exploiting a Bulky, Electronically Unsymmetrical Donor in Main Group Chemistry. Chemistry - A European Journal, 2021, 27, 3159-3165.	1.7	2
216	Nâ€heterocyclic stabilized tetrylenes: access to silicon hydride systems via migration processes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1679-1684.	0.6	2

#	Article	IF	Citations
217	Controlling Oxidative Addition and Reductive Elimination at Tin(I) via Hemiâ€Lability. Angewandte Chemie, 0, , .	1.6	2
218	Linking of Main Group Metals via Bridging Halide Ligands: Structures of the Bromo-indanediyl Dimer [{(Î·5-C5H5)Fe(CO)2}2InBr]2 and the Related Lithium Bromide Adduct [(Î·5-C5H5)Fe(CO)2]2In(Î¼-Br)2Li(OEt2)2. Main Group Metal Chemistry, 2007, 30, .	0.6	1
219	Crystal Structure of [{(.ETA.7-C7H7)Mo(CO)2Ga}2(.MU.-OGaI3){.MU.-OGaI(OH)2}]2 3benzene. Analytical Sciences: X-ray Structure Analysis Online, 2007, 23, X57-X58.	0.1	1
220	Crystal Structures of [XnE]+[(.ETA.7-C7H7)Mo(CO)2GaI3]- (XnE = (thf)4Li, Cy3PH). Analytical Sciences: X-ray Structure Analysis Online, 2007, 23, X213-X214.	0.1	1
221	Crystal Structure of [{(.ETA.5-C5Me5)Fe(CO)2In(C6H2But3-2,4,6)}2(.MU.-F)]+(BF4)- 3CH2Cl2. Analytical Sciences: X-ray Structure Analysis Online, 2008, 24, X167-X168.	0.1	1
222	Synthesis and Reactivity of Half-Sandwich Ruthenium Î²2-Aminoborane Complexes. Australian Journal of Chemistry, 2013, 66, 1211.	0.5	1
223	Boranes and borohydrides. Dalton Transactions, 2013, 42, 607-607.	1.6	1
224	Reactions of a Dimethylxantheneâ€Derived Frustrated Lewis Pair with Silanes and Stannanes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	0.6	1
225	InnenrÃ¼cktitelbild: An Nâ€Heterocyclic Boryloxy Ligand Isoelectronic with Nâ€Heterocyclic Imines: Access to an Acyclic Dioxysilylene and its Heavier Congeners (Angew. Chem. 15/2019). Angewandte Chemie, 2019, 131, 5189-5189.	1.6	0
226	Reversible Uptake of CO2 by Pincer Ligand Supported Dimetallynes. Angewandte Chemie, 0, , .	1.6	0