

Merle Arrowsmith

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

3,606
citations

32
h-index

58
g-index

104
ext. papers

4,247
ext. citations

8.2
avg. IF

5.65
L-index

#	Paper	IF	Citations
92	Harnessing the electronic differences between CAAC-stabilised 1,4-diborabenzene and 9,10-diboraanthracene for synthesis. <i>Chemical Communications</i> , 2021 ,	5.8	2
91	Hybrid Inorganic-Organic Cross-Metathesis between Diborenes and Acetylene. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18339-18345	16.4	3
90	Boron- versus Nitrogen-Centered Nucleophilic Reactivity of (Cyano)hydroboryl Anions: Synthesis of Cyano(hydro)organoboranes and 2-Aza-1,4-diborabutatrienes. <i>Chemistry - A European Journal</i> , 2021 , 27, 9694-9699	4.8	1
89	NHC-Stabilized 1,2-Dihalodiborenes: Synthesis, Characterization, and Reactivity Toward Elemental Chalcogens. <i>Inorganic Chemistry</i> , 2021 , 60, 12625-12633	5.1	2
88	Platinum-Templated Coupling of B=N Units: Synthesis of BNB-N Analogues of 1,3-Dienes and a Butatriene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16864-16868	16.4	2
87	Platin-vermittelte Kupplung von B=N-Einheiten: Synthese von BNB-N-Analoga von 1,3-Dienen und Butatrien. <i>Angewandte Chemie</i> , 2021 , 133, 17000-17004	3.6	
86	Reduction and Rearrangement of a Boron(II) Carbonyl Complex. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2963-2968	16.4	11
85	Reduktion und Umlagerung eines Bor(II)-Carbonylkomplexes. <i>Angewandte Chemie</i> , 2021 , 133, 3000-3005	3.6	4
84	Reactions of diborenes with terminal alkynes: mechanisms of ligand-controlled -selective hydroalkynylation, cycloaddition and C[triple bond, length as m-dash]C triple bond scission. <i>Chemical Science</i> , 2021 , 12, 9506-9515	9.4	1
83	Reactivity of cyano- and isothiocyanatoborylenes: metal coordination, one-electron oxidation and boron-centred Brønsted basicity. <i>Chemical Science</i> , 2021 , 12, 7937-7942	9.4	2
82	Highly Colored Boron-Doped Thiazolothiazoles from the Reductive Dimerization of Boron Isothiocyanates. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6446-6450	16.4	8
81	Intensiv farbige Bor-dotierte Thiazolthiazole durch reduktive Dimerisierung von Borisothiocyanaten. <i>Angewandte Chemie</i> , 2021 , 133, 6519-6524	3.6	4
80	Ein neutrales Beryllium(II)-Radikal. <i>Angewandte Chemie</i> , 2021 , 133, 20944-20948	3.6	1
79	A Neutral Beryllium(II) Radical. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20776-20780	16.4	13
78	Synthesis and characterisation of boranediyl- and diboranediyl-bridged diplatinum A-frame complexes. <i>Dalton Transactions</i> , 2021 , 50, 3506-3515	4.3	3
77	Oxidation, Coordination, and Nickel-Mediated Deconstruction of a Highly Electron-Rich Diboron Analogue of 1,3,5-Hexatriene. <i>Angewandte Chemie</i> , 2020 , 132, 15847-15855	3.6	2
76	Trapping of a Borirane Intermediate in the Reductive Coupling of an Arylborane to a Diborene. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5562-5567	16.4	10

75	Boranediy- and Diborane(4)-1,2-diyl-Bridged Platinum A-Frame Complexes. <i>Chemistry - A European Journal</i> , 2020 , 26, 8518-8523	4.8	6
74	Synthesis of polyheterocyclic 1,1-diboryltriazenes by Nitrogen insertion of azides into activated B-B single bonds. <i>Chemical Communications</i> , 2020 , 56, 5681-5684	5.8	2
73	Reduction of a dihydroboryl cation to a boryl anion and its air-stable, neutral hydroboryl radical through hydrogen shuttling. <i>Chemical Science</i> , 2020 , 11, 551-555	9.4	12
72	Trans-selektive Dihydroborierung eines cis-Diborens durch Insertion: Synthese eines linearen sp ³ -sp ² -sp ³ -Triborans und anschließende Kationisierung. <i>Angewandte Chemie</i> , 2020 , 132, 333-337	3.6	2
71	Dehydrocoupling and Other Cross-couplings 2020 , 225-250		3
70	Tuneable reduction of cymantrenylboranes to diborenes or borylene-derived boratafulvenes. <i>Chemical Communications</i> , 2020 , 56, 14809-14812	5.8	2
69	trans-Selective Insertional Dihydroboration of a cis-Diborene: Synthesis of Linear sp ³ -sp ² -sp ³ -Triboranes and Subsequent Cationization. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 325-329	16.4	4
68	Oxidation, Coordination, and Nickel-Mediated Deconstruction of a Highly Electron-Rich Diboron Analogue of 1,3,5-Hexatriene. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15717-15725	16.4	8
67	Lewis-Base Stabilization of the Parent Al(I) Hydride under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16954-16960	16.4	28
66	Spontaneous trans-Selective Transfer Hydrogenation of Apolar Boron-Boron Double Bonds. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9782-9786	16.4	9
65	Synthesis of fused B,N-heterocycles by alkyne cleavage, NHC ring-expansion and C-H activation at a diboryne. <i>Chemical Communications</i> , 2019 , 55, 6700-6703	5.8	11
64	Spontane trans-selektive Transferhydrierung von unpolaren B=B-Doppelbindungen. <i>Angewandte Chemie</i> , 2019 , 131, 9884-9889	3.6	6
63	The reductive coupling of dinitrogen. <i>Science</i> , 2019 , 363, 1329-1332	33.3	124
62	Stable Lewis Base Adducts of Tetrahalodiboranes: Synthetic Methods and Structural Diversity. <i>Chemistry - A European Journal</i> , 2019 , 25, 8612-8622	4.8	12
61	Synthesis and reduction chemistry of mixed-Lewis-base-stabilised chloroborylenes. <i>Chemical Science</i> , 2019 , 10, 5095-5103	9.4	15
60	Hydroxytricyanoborate Anion: Synthetic Aspects and Structural, Chemical, and Spectroscopic Properties. <i>Inorganic Chemistry</i> , 2019 , 58, 16689-16702	5.1	3
59	Direct access to a cAAC-supported dihydrodiborene and its dianion. <i>Chemical Communications</i> , 2018 , 54, 4669-4672	5.8	23
58	Closely related yet different: a borylene and its dimer are non-interconvertible but connected through reactivity. <i>Chemical Science</i> , 2018 , 9, 2252-2260	9.4	23

57	Isolierbare, neutrale Analoga des [B ₂ H ₅] ⁻ ions als vielseitige und stark bindende σ -Donorliganden. <i>Angewandte Chemie</i> , 2018 , 130, 6456-6460	3.6	16
56	Single and double activation of acetone by isolobal B \equiv N and B \equiv B triple bonds. <i>Chemical Science</i> , 2018 , 9, 5354-5359	9.4	23
55	Bottleable Neutral Analogues of [B H] as Versatile and Strongly Binding σ Donor Ligands. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6347-6351	16.4	26
54	Reactivity Enhancement of a Zerovalent Diboron Compound by Desymmetrization. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10368-10373	16.4	29
53	Increasing the Reactivity of Diborenes: Derivatization of NHC-Supported Dithienyldiborenes with Electron-Donor Groups. <i>Chemistry - A European Journal</i> , 2018 , 24, 266-273	4.8	24
52	Facile Synthesis of a Stable Dihydroboryl {BH } Anion. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15272-15275	16.4	16
51	Einfacher Zugang zum ersten stabilen {BH ₂ } ⁻ Dihydroborylanion. <i>Angewandte Chemie</i> , 2018 , 130, 15493-15497	3.6	9
50	Synthese und Reaktivit� von Verbindungen mit elektronenpr�zisen B-B-Einfach- und B-B-Mehrfachbindungen. <i>Angewandte Chemie</i> , 2017 , 129, 100-120	3.6	98
49	Generierung einer kleinen HOMO-LUMO-L�cke und intramolekulare C-H-Borylierung durch Diboren-Anthracen-Orbitalinterkalation. <i>Angewandte Chemie</i> , 2017 , 129, 8122-8126	3.6	19
48	Engineering a Small HOMO-LUMO Gap and Intramolecular C-H Borylation by Diborene/Anthracene Orbital Intercalation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8009-8013	16.4	38
47	Alkaline-Earth Derivatives of the Reactive [HB(CF)] Anion. <i>Inorganic Chemistry</i> , 2017 , 56, 5976-5983	5.1	22
46	From Borane to Borylene without Reduction: Ambiphilic Behavior of a Monovalent Silylisonitrile Boron Species. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11263-11267	16.4	34
45	Simple solution-phase syntheses of tetrahalodiboranes(4) and their labile dimethylsulfide adducts. <i>Chemical Communications</i> , 2017 , 53, 8265-8267	5.8	28
44	Synthesis and Reduction of Sterically Encumbered Mesoionic Carbene-Stabilized Aryldihaloboranes. <i>Chemistry - A European Journal</i> , 2017 , 23, 12210-12217	4.8	24
43	Facile Access to Unprecedented Electron-Precise Monohydrodiboranes(4), cis-1,2-Dihydrodiboranes(4), and a 1,1-Dihydrodiborane(5). <i>Chemistry - A European Journal</i> , 2017 , 23, 2179-2184	4.8	18
42	CuOTf-mediated intramolecular diborene hydroarylation. <i>Chemical Communications</i> , 2017 , 53, 11945-11947	3.6	20
41	Reactivity of a Dihydrodiborene with CO: Coordination, Insertion, Cleavage, and Spontaneous Formation of a Cyclic Alkyne. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14287-14292	16.4	53
40	Reaktivit� eines Dihydrodiborens gegen CO: Koordination, Insertion, Spaltung und spontane Bildung eines cyclischen Alkins. <i>Angewandte Chemie</i> , 2017 , 129, 14475-14480	3.6	28

39	Vom Boran zum Borylen ohne Reduktion: amphiphiles Verhalten einer monovalenten Silylisonitril-Borverbindung. <i>Angewandte Chemie</i> , 2017 , 129, 11417-11421	3.6	22
38	Monomeric 16-Electron π -Diborene Complexes of Zn(II) and Cd(II). <i>Journal of the American Chemical Society</i> , 2017 , 139, 10661-10664	16.4	35
37	Nucleophilic addition and substitution at coordinatively saturated boron by facile 1,2-hydrogen shuttling onto a carbene donor. <i>Chemical Science</i> , 2017 , 8, 7066-7071	9.4	19
36	Formation and Reactivity of Electron-Precise B-B Single and Multiple Bonds. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 96-115	16.4	161
35	Neutral Diboron Analogues of Archetypal Aromatic Species by Spontaneous Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11271-5	16.4	63
34	Neutrale Dibor-Analoga von archetypischen aromatischen Verbindungen durch spontane Cycloaddition. <i>Angewandte Chemie</i> , 2016 , 128, 11441-11445	3.6	29
33	Erzeugung zweifach koordinierter Bor(I)-Einheiten durch Fragmentierung eines molekularen Tetra-Bor(I)-Quadrats. <i>Angewandte Chemie</i> , 2016 , 128, 14680-14684	3.6	32
32	Neutral zero-valent s-block complexes with strong multiple bonding. <i>Nature Chemistry</i> , 2016 , 8, 638-42	17.6	127
31	Magnesium-catalysed nitrile hydroboration. <i>Chemical Science</i> , 2016 , 7, 628-641	9.4	124
30	Uncatalyzed Hydrogenation of First-Row Main Group Multiple Bonds. <i>Chemistry - A European Journal</i> , 2016 , 22, 17169-17172	4.8	82
29	Generation of Dicoordinate Boron(I) Units by Fragmentation of a Tetra-Boron(I) Molecular Square. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14464-14468	16.4	62
28	Attenuated Organomagnesium Activation of White Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7882-5	16.4	42
27	Magnesium and Calcium Complexes in Homogeneous Catalysis 2015 , 1-26		3
26	Attenuated Organomagnesium Activation of White Phosphorus. <i>Angewandte Chemie</i> , 2015 , 127, 7993-7996	3.6	22
25	Beyond Dehydrocoupling: Group 2 Mediated Boron-Nitrogen Desilacoupling. <i>Angewandte Chemie</i> , 2015 , 127, 15495-15498	3.6	4
24	Beyond Dehydrocoupling: Group 2 Mediated Boron-Nitrogen Desilacoupling. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15280-3	16.4	24
23	Group 2 Catalysis for the Atom-Efficient Synthesis of Imidazolidine and Thiazolidine Derivatives. <i>Chemistry - A European Journal</i> , 2015 , 21, 10548-57	4.8	19
22	Activation of N-Heterocyclic Carbenes by $\{BeH_2\}$ and $\{Be(H)(Me)\}$ Fragments. <i>Organometallics</i> , 2015 , 34, 653-662	3.8	57

21	Catalytic hydroacetylenation of carbodiimides with homoleptic alkaline earth hexamethyldisilazides. <i>Dalton Transactions</i> , 2014 , 43, 14249-56	4.3	30
20	Alkaline earth catalysis for the 100% atom-efficient three component assembly of imidazolidin-2-ones. <i>Chemical Communications</i> , 2014 , 50, 12676-9	5.8	22
19	Dearomatized BIAN Alkaline-Earth Alkyl Catalysts for the Intramolecular Hydroamination of Hindered Aminoalkenes. <i>Organometallics</i> , 2014 , 33, 206-216	3.8	29
18	Selective reduction of CO ₂ to a methanol equivalent by B(C ₆ F ₅) ₃ -activated alkaline earth catalysis. <i>Chemical Science</i> , 2014 , 5, 2826-2830	9.4	105
17	Mononuclear three-coordinate magnesium complexes of a highly sterically encumbered β -diketiminato ligand. <i>Inorganic Chemistry</i> , 2014 , 53, 10543-52	5.1	60
16	Beryllium derivatives of a phenyl-substituted β -diketiminato: a well-defined ring opening reaction of tetrahydrofuran. <i>Dalton Transactions</i> , 2013 , 42, 9720-6	4.3	35
15	Magnesium catalysis of imine hydroboration. <i>Chemistry - A European Journal</i> , 2013 , 19, 2776-83	4.8	117
14	Catalytic and Stoichiometric Cumulene Formation within Dimeric Group 2 Acetylides. <i>Organometallics</i> , 2013 , 32, 4961-4972	3.8	25
13	Beryllium-induced C-N bond activation and ring opening of an N-heterocyclic carbene. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2098-100	16.4	132
12	Three-coordinate beryllium β -diketiminates: synthesis and reduction chemistry. <i>Inorganic Chemistry</i> , 2012 , 51, 13408-18	5.1	59
11	Magnesium-catalysed hydroboration of aldehydes and ketones. <i>Chemical Communications</i> , 2012 , 48, 4567-9	5.8	200
10	Beryllium-Induced C-N Bond Activation and Ring Opening of an N-Heterocyclic Carbene. <i>Angewandte Chemie</i> , 2012 , 124, 2140-2142	3.6	53
9	Magnesium-Catalyzed Hydroboration of Pyridines. <i>Organometallics</i> , 2011 , 30, 5556-5559	3.8	188
8	Suppression of Schlenk Equilibration and Heavier Alkaline Earth Alkyl Catalysis: A Dearomatization Strategy. <i>Organometallics</i> , 2011 , 30, 1291-1294	3.8	52
7	Cation Charge Density and Precatalyst Selection in Group 2-Catalyzed Aminoalkene Hydroamination. <i>Organometallics</i> , 2011 , 30, 1493-1506	3.8	110
6	Dearomatization and C-H Deprotonation with Heavier Group 2 Alkyls: Does Size Matter?. <i>Organometallics</i> , 2010 , 29, 4203-4206	3.8	35
5	A Hydride-Rich Magnesium Cluster. <i>Angewandte Chemie</i> , 2009 , 121, 4073-4076	3.6	42
4	A hydride-rich magnesium cluster. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4013-6	16.4	115

3	Tris(imidazolin-2-ylidene-1-yl)borate Complexes of the Heavier Alkaline Earths: Synthesis and Structural Studies. <i>Organometallics</i> , 2009 , 28, 4550-4559	3.8	53
2	Intramolecular hydroamination of aminoalkenes by calcium and magnesium complexes: a synthetic and mechanistic study. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9670-85	16.4	237
1	Bis(imidazolin-2-ylidene-1-yl)borate Complexes of the Heavier Alkaline Earths: Synthesis and Studies of Catalytic Hydroamination. <i>Organometallics</i> , 2009 , 28, 1730-1738	3.8	93