

Merle Arrowsmith

List of Publications by Citations

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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	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
91	Magnesium-catalysed hydroboration of aldehydes and ketones. <i>Chemical Communications</i> , 2012 , 48, 4567-9	5.8	200
90	Magnesium-Catalyzed Hydroboration of Pyridines. <i>Organometallics</i> , 2011 , 30, 5556-5559	3.8	188
89	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
88	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
87	Neutral zero-valent s-block complexes with strong multiple bonding. <i>Nature Chemistry</i> , 2016 , 8, 638-42	17.6	127
86	The reductive coupling of dinitrogen. <i>Science</i> , 2019 , 363, 1329-1332	33.3	124
85	Magnesium-catalysed nitrile hydroboration. <i>Chemical Science</i> , 2016 , 7, 628-641	9.4	124
84	Magnesium catalysis of imine hydroboration. <i>Chemistry - A European Journal</i> , 2013 , 19, 2776-83	4.8	117
83	A hydride-rich magnesium cluster. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4013-6	16.4	115
82	Cation Charge Density and Precatalyst Selection in Group 2-Catalyzed Aminoalkene Hydroamination. <i>Organometallics</i> , 2011 , 30, 1493-1506	3.8	110
81	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
80	Synthese und Reaktivit von Verbindungen mit elektronenprisen B-B-Einfach- und B-B-Mehrfachbindungen. <i>Angewandte Chemie</i> , 2017 , 129, 100-120	3.6	98
79	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
78	Uncatalyzed Hydrogenation of First-Row Main Group Multiple Bonds. <i>Chemistry - A European Journal</i> , 2016 , 22, 17169-17172	4.8	82
77	Neutral Diboron Analogues of Archetypal Aromatic Species by Spontaneous Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11271-5	16.4	63
76	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

75	Mononuclear three-coordinate magnesium complexes of a highly sterically encumbered Bdiketiminate ligand. <i>Inorganic Chemistry</i> , 2014 , 53, 10543-52	5.1	60
74	Three-coordinate beryllium Bdiketimates : synthesis and reduction chemistry. <i>Inorganic Chemistry</i> , 2012 , 51, 13408-18	5.1	59
73	Activation of N-Heterocyclic Carbenes by $\{\text{BeH}_2\}$ and $\{\text{Be}(\text{H})(\text{Me})\}$ Fragments. <i>Organometallics</i> , 2015 , 34, 653-662	3.8	57
72	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
71	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
70	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
69	Suppression of Schlenk Equilibration and Heavier Alkaline Earth Alkyl Catalysis: A Dearomatization Strategy. <i>Organometallics</i> , 2011 , 30, 1291-1294	3.8	52
68	Attenuated Organomagnesium Activation of White Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7882-5	16.4	42
67	A Hydride-Rich Magnesium Cluster. <i>Angewandte Chemie</i> , 2009 , 121, 4073-4076	3.6	42
66	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
65	Beryllium derivatives of a phenyl-substituted Bdiketiminate : a well-defined ring opening reaction of tetrahydrofuran. <i>Dalton Transactions</i> , 2013 , 42, 9720-6	4.3	35
64	Monomeric 16-Electron Bdiborene Complexes of Zn(II) and Cd(II). <i>Journal of the American Chemical Society</i> , 2017 , 139, 10661-10664	16.4	35
63	Dearomatization and CH Deprotonation with Heavier Group 2 Alkyls: Does Size Matter?. <i>Organometallics</i> , 2010 , 29, 4203-4206	3.8	35
62	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
61	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
60	Catalytic hydroacetylenation of carbodiimides with homoleptic alkaline earth hexamethyldisilazides. <i>Dalton Transactions</i> , 2014 , 43, 14249-56	4.3	30
59	Neutrale Dibor-Analoga von archetypischen aromatischen Verbindungen durch spontane Cycloaddition. <i>Angewandte Chemie</i> , 2016 , 128, 11441-11445	3.6	29
58	Reactivity Enhancement of a Zerovalent Diboron Compound by Desymmetrization. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10368-10373	16.4	29

57	Dearomatized BIAN Alkaline-Earth Alkyl Catalysts for the Intramolecular Hydroamination of Hindered Aminoalkenes. <i>Organometallics</i> , 2014 , 33, 206-216	3.8	29
56	Simple solution-phase syntheses of tetrahalodiboranes(4) and their labile dimethylsulfide adducts. <i>Chemical Communications</i> , 2017 , 53, 8265-8267	5.8	28
55	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
54	Reaktivit�eines Dihydridoborens gegen CO: Koordination, Insertion, Spaltung und spontane Bildung eines cyclischen Alkins. <i>Angewandte Chemie</i> , 2017 , 129, 14475-14480	3.6	28
53	Bottleable Neutral Analogues of [B H] as Versatile and Strongly Binding Donor Ligands. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6347-6351	16.4	26
52	Catalytic and Stoichiometric Cumulene Formation within Dimeric Group 2 Acetyliides. <i>Organometallics</i> , 2013 , 32, 4961-4972	3.8	25
51	Synthesis and Reduction of Sterically Encumbered Mesoionic Carbene-Stabilized Aryldihaloboranes. <i>Chemistry - A European Journal</i> , 2017 , 23, 12210-12217	4.8	24
50	Beyond Dehydrocoupling: Group 2 Mediated Boron-Nitrogen Desilacoupling. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15280-3	16.4	24
49	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
48	Direct access to a cAAC-supported dihydridoborene and its dianion. <i>Chemical Communications</i> , 2018 , 54, 4669-4672	5.8	23
47	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
46	Single and double activation of acetone by isolobal B[triple bond, length as m-dash]N and B[triple bond, length as m-dash]B triple bonds. <i>Chemical Science</i> , 2018 , 9, 5354-5359	9.4	23
45	Alkaline-Earth Derivatives of the Reactive [HB(CF)] Anion. <i>Inorganic Chemistry</i> , 2017 , 56, 5976-5983	5.1	22
44	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
43	Vom Boran zum Borylen ohne Reduktion: ambiphiles Verhalten einer monovalenten Silylisonitril-Borverbindung. <i>Angewandte Chemie</i> , 2017 , 129, 11417-11421	3.6	22
42	Attenuated Organomagnesium Activation of White Phosphorus. <i>Angewandte Chemie</i> , 2015 , 127, 7993-7996	22	22
41	CuOTf-mediated intramolecular diborene hydroarylation. <i>Chemical Communications</i> , 2017 , 53, 11945-11947	3.8	20
40	Generierung einer kleinen HOMO-LUMO-L�ke und intramolekulare C-H-Borylierung durch Diboren-Anthracen-Orbitalinterkalation. <i>Angewandte Chemie</i> , 2017 , 129, 8122-8126	3.6	19

39	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
38	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
37	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 ¹⁸	4.8	18
36	Isolierbare, neutrale Analoga des [B ₂ H ₅] ⁰ Ions als vielseitige und stark bindende π-Donorliganden. <i>Angewandte Chemie</i> , 2018 , 130, 6456-6460	3.6	16
35	Facile Synthesis of a Stable Dihydroboryl {BH ₄ ⁻ } Anion. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15272-15275	16.4	16
34	Synthesis and reduction chemistry of mixed-Lewis-base-stabilised chloroborylenes. <i>Chemical Science</i> , 2019 , 10, 5095-5103	9.4	15
33	A Neutral Beryllium(I) Radical. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20776-20780	16.4	13
32	Stable Lewis Base Adducts of Tetrahalodiboranes: Synthetic Methods and Structural Diversity. <i>Chemistry - A European Journal</i> , 2019 , 25, 8612-8622	4.8	12
31	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
30	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
29	Reduction and Rearrangement of a Boron(I) Carbonyl Complex. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2963-2968	16.4	11
28	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
27	Spontaneous trans-Selective Transfer Hydrogenation of Apolar Boron-Boron Double Bonds. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9782-9786	16.4	9
26	Einfacher Zugang zum ersten stabilen {BH ₂ ⁻ }Dihydroborylanion. <i>Angewandte Chemie</i> , 2018 , 130, 15493-15497 ¹⁹ 9	16.4	9
25	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
24	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
23	Spontane trans-selektive Transferhydrierung von unpolaren B=B-Doppelbindungen. <i>Angewandte Chemie</i> , 2019 , 131, 9884-9889	3.6	6
22	Boranediyl- and Diborane(4)-1,2-diyl-Bridged Platinum A-Frame Complexes. <i>Chemistry - A European Journal</i> , 2020 , 26, 8518-8523	4.8	6

21	Beyond Dehydrocoupling: Group 2 Mediated Boron-Nitrogen Desilacoupling. <i>Angewandte Chemie</i> , 2015 , 127, 15495-15498	3.6	4
20	trans-Selective Insertional Dihydroboration of a cis-Diborene: Synthesis of Linear sp-sp-sp-Triboranes and Subsequent Cationization. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 325-329	16.4	4
19	Reduktion und Umlagerung eines Bor(I)-Carbonylkomplexes. <i>Angewandte Chemie</i> , 2021 , 133, 3000-3005	3.6	4
18	Intensiv farbige Bor-dotierte Thiazolthiazole durch reduktive Dimerisierung von Borisothiocyanaten. <i>Angewandte Chemie</i> , 2021 , 133, 6519-6524	3.6	4
17	Magnesium and Calcium Complexes in Homogeneous Catalysis 2015 , 1-26		3
16	Hybrid Inorganic-Organic Cross-Metathesis between Diborenes and Acetylene. <i>Journal of the American Chemical Society</i> , 2021 , 143, 18339-18345	16.4	3
15	Dehydrocoupling and Other Cross-couplings 2020 , 225-250		3
14	Hydroxytricyanoborate Anion: Synthetic Aspects and Structural, Chemical, and Spectroscopic Properties. <i>Inorganic Chemistry</i> , 2019 , 58, 16689-16702	5.1	3
13	Synthesis and characterisation of boranediyl- and diboranediyl-bridged diplatinum A-frame complexes. <i>Dalton Transactions</i> , 2021 , 50, 3506-3515	4.3	3
12	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
11	Synthesis of polyheterocyclic 1,1-diboryltriazenes by B_2H_6 -insertion of azides into activated B-B single bonds. <i>Chemical Communications</i> , 2020 , 56, 5681-5684	5.8	2
10	Harnessing the electronic differences between CAAC-stabilised 1,4-dborabenzene and 9,10-diboraanthracene for synthesis. <i>Chemical Communications</i> , 2021 ,	5.8	2
9	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
8	Tunable reduction of cymantrenylboranes to diborenes or borylene-derived boratafulvenes. <i>Chemical Communications</i> , 2020 , 56, 14809-14812	5.8	2
7	NHC-Stabilized 1,2-Dihalodiborenes: Synthesis, Characterization, and Reactivity Toward Elemental Chalcogens. <i>Inorganic Chemistry</i> , 2021 , 60, 12625-12633	5.1	2
6	Platinum-Templated Coupling of B=N Units: Synthesis of BBNB Analogues of 1,3-Dienes and a Butatriene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16864-16868	16.4	2
5	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
4	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

LIST OF PUBLICATIONS

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|---|--|------------|
| 3 | Reactions of diborenes with terminal alkynes: mechanisms of ligand-controlled -selective hydroalkylation, cycloaddition and C[triple bond, length as m-dash]C triple bond scission.
<i>Chemical Science</i> , 2021 , 12, 9506-9515 | 9.4 1 |
| 2 | Ein neutrales Beryllium(I)-Radikal. <i>Angewandte Chemie</i> , 2021 , 133, 20944-20948 | 3.6 1 |
| 1 | Platin-vermittelte Kupplung von B=N-Einheiten: Synthese von BNBN-Analoga von 1,3-Dienen und Butatrien. <i>Angewandte Chemie</i> , 2021 , 133, 17000-17004 | 3.6 |