Holger Braunschweig

List of Publications by Citations

765 papers	27,894 citations	82 h-index	122 g-index
823 ext. papers	31,129 ext. citations	8.2 avg, IF	7.58 L-index

#	Paper	IF	Citations
765	Nitrogen fixation and reduction at boron. *Science*, **2018**, 359, 896-900	33.3	632
764	High-performance air-stable n-channel organic thin film transistors based on halogenated perylene bisimide semiconductors. *Journal of the American Chemical Society*, **2009**, 131, 6215-28	16.4	553
763	Electron-precise coordination modes of boron-centered ligands. *Chemical Reviews*, **2010**, 110, 3924-57	68.1	461
762	Ambient-temperature isolation of a compound with a boron-boron triple bond. *Science*, **2012**, 336, 1420-2	33.3	437
761	Transition metal complexes of boron synthesis, structure and reactivity. *Coordination Chemistry Reviews*, **2001**, 223, 1-51	23.2	337
760	Transition-metal complexes of boron-new insights and novel coordination modes. *Angewandte Chemie - International Edition*, **2006**, 45, 5254-74	16.4	326
759	Transition Metal Complexes of Boron. *Angewandte Chemie - International Edition*, **1998**, 37, 1786-1801	16.4	266
758	Multiple complexation of CO and related ligands to a main-group element. *Nature*, **2015**, 522, 327-30	50.4	245
757	Constrained geometry complexes Synthesis and applications. *Coordination Chemistry Reviews*, **2006**, 250, 2691-2720	23.2	231
756	Outstanding short-circuit currents in BHJ solar cells based on NIR-absorbing acceptor-substituted squaraines. *Angewandte Chemie - International Edition*, **2009**, 48, 8776-9	16.4	214
755	Metal-only Lewis pairs with transition metal lewis bases. *Chemical Reviews*, **2012**, 112, 4329-46	68.1	204
754	Recent developments in the chemistry of antiaromatic boroles. *Chemical Communications*, **2011**, 47, 10903-14	6.8	196
753	Transition metals as Lewis bases: "Z-type" boron ligands and metal-to-boron dative bonding. *Dalton Transactions*, **2011**, 40, 549-58	4.3	182
752	Synthesis and structure of a carbene-stabilized pi-boryl anion. *Angewandte Chemie - International Edition*, **2010**, 49, 2041-4	16.4	182
751	sp(2)-sp(3) diboranes: astounding structural variability and mild sources of nucleophilic boron for organic synthesis. *Chemical Communications*, **2015**, 51, 9594-607	5.8	179
750	Synthesis and Structure of the First Terminal Borylene Complexes. *Angewandte Chemie - International Edition*, **1998**, 37, 3179-3180	16.4	173
749	Single, double, triple bonds and chains: the formation of electron-precise B-B bonds. *Angewandte Chemie - International Edition*, **2013**, 52, 3574-83	16.4	168

748	Transition metal borylene complexes. *Chemical Society Reviews*, **2013**, 42, 3197-208	58.5	167
747	Oxoboryl complexes: boron-oxygen triple bonds stabilized in the coordination sphere of platinum. *Science*, **2010**, 328, 345-7	33.3	162
746	Formation and Reactivity of Electron-Precise B-B Single and Multiple Bonds. *Angewandte Chemie - International Edition*, **2017**, 56, 96-115	16.4	161
745	Structural evidence for antiaromaticity in free boroles. *Angewandte Chemie - International Edition*, **2008**, 47, 1951-4	16.4	157
744	Synthesis, Electronic Structure, and Novel Reactivity of Strained, Boron-Bridged [1]Ferrocenophanes. *Journal of the American Chemical Society*, **2000**, 122, 5765-5774	16.4	149
743	Übergangsmetallkomplexe des Bors – Neue Erkenntnisse und neuartige Koordinationstypen. *Angewandte Chemie*, **2006**, 118, 5380-5400	3.6	148
742	Übergangsmetallkomplexe des Bors. *Angewandte Chemie*, **1998**, 110, 1882-1898	3.6	138
741	Metal-free binding and coupling of carbon monoxide at a boron-boron triple bond. *Nature Chemistry*, **2013**, 5, 1025-8	17.6	135
740	Metallomimetic Chemistry of Boron. *Chemical Reviews*, **2019**, 119, 8231-8261	68.1	129
739	Neutral zero-valent s-block complexes with strong multiple bonding. *Nature Chemistry*, **2016**, 8, 638-42	17.6	127
738	Borylenes as Ligands to Transition Metals. *Advances in Organometallic Chemistry*, **2004**, 51, 163-192	3.8	126
737	Isolation of a neutral boron-containing radical stabilized by a cyclic (alkyl)(amino)carbene. *Angewandte Chemie - International Edition*, **2014**, 53, 7360-3	16.4	125
736	Recent Developments in Azaborinine Chemistry. *European Journal of Inorganic Chemistry*, **2017**, 2017, 4353-4368	2.3	125
735	The reductive coupling of dinitrogen. *Science*, **2019**, 363, 1329-1332	33.3	124
734	Base-stabilized diborenes: selective generation and π_2 side-on coordination to silver(I). *Angewandte Chemie - International Edition*, **2012**, 51, 9931-4	16.4	122
733	Generation of a carbene-stabilized bora-borylene and its insertion into a C-H bond. *Journal of the American Chemical Society*, **2011**, 133, 19044-7	16.4	120
732	An isolable radical anion based on the borole framework. *Angewandte Chemie - International Edition*, **2012**, 51, 2977-80	16.4	119
731	Trapping the elusive parent borylene. *Angewandte Chemie - International Edition*, **2011**, 50, 4704-7	16.4	119

730	A T-shaped platinum(II) boryl complex as the precursor to a platinum compound with a base-stabilized borylene ligand. *Angewandte Chemie - International Edition*, **2005**, 44, 5651-4	16.4	119
729	Electron Delocalization in Reduced Forms of 2-(BMes2)pyrene and 2,7-Bis(BMes2)pyrene. *Journal of the American Chemical Society*, **2015**, 137, 6750-3	16.4	118
728	Bond-strengthening □ backdonation □ in a □ transition-metal □ diborene complex. *Nature Chemistry*, **2013**, 5, 115-21	17.6	118
727	Synthesis and Structure of the First Transition Metal Borylene Complexes. *Angewandte Chemie International Edition in English*, **1995**, 34, 825-826		118
726	Diborabutatriene: an electron-deficient cumulene. *Angewandte Chemie - International Edition*, **2014**, 53, 9082-5	16.4	116
725	Interaction between d- and p-block metals: synthesis and structure of platinum-alane adducts. *Angewandte Chemie - International Edition*, **2007**, 46, 7782-4	16.4	115
724	The Chemistry of Borylene Complexes. *European Journal of Inorganic Chemistry*, **2003**, 2003, 393-403	2.3	115
723	Main-Group Metallomimetics: Transition Metal-like Photolytic CO Substitution at Boron. *Journal of the American Chemical Society*, **2017**, 139, 1802-1805	16.4	111
722	Direct hydroboration of B=B bonds: a mild strategy for the proliferation of B-B bonds. *Angewandte Chemie - International Edition*, **2014**, 53, 3241-4	16.4	110
721	Boron as a powerful reductant: synthesis of a stable boron-centered radical-anion radical-cation pair. *Angewandte Chemie - International Edition*, **2015**, 54, 359-62	16.4	109
720	Synthese und Struktur der ersten terminalen Borylenkomplexe. *Angewandte Chemie*, **1998**, 110, 3355-3357	3.6	107
719	Terminal Borylene Complexes as a Source for the Borylene B-N(SiMe(3))(2): Alternative Synthesis and Structure of. *Angewandte Chemie - International Edition*, **2001**, 40, 2298-2300	16.4	107
718	Boron radical cations from the facile oxidation of electron-rich diborenes. *Angewandte Chemie - International Edition*, **2014**, 53, 5689-93	16.4	105
717	Metal-mediated synthesis of 1,4-di-tert-butyl-1,4-azaborine. *Angewandte Chemie - International Edition*, **2012**, 51, 10034-7	16.4	105
716	Experimental studies on the trans-influence of boryl ligands in square-planar platinum(II) complexes. *Chemistry - A European Journal*, **2007**, 13, 7171-6	4.8	104
715	Reactivity of terminal transition metal borylene complexes. *Heteroatom Chemistry*, **2005**, 16, 566-571	1.2	103
714	Boron □ Boron Multiple Bonding: From Charged to Neutral and Back Again. *Organometallics*, **2014**, 33, 6271-6277	3.8	101
713	Antiaromaticity to aromaticity: from boroles to 1,2-azaborinines by ring expansion with azides. *Chemistry - A European Journal*, **2014**, 20, 9858-61	4.8	101

712	Evidence for extensive single-electron-transfer chemistry in boryl anions: isolation and reactivity of a neutral borole radical. *Angewandte Chemie - International Edition*, **2014**, 53, 5453-7	16.4	100
711	[(Eta5-C5H5)(OC)3V=B=N(SiMe3)2: a half-sandwich complex with a terminal borylene ligand. *Angewandte Chemie - International Edition*, **2003**, 42, 205-8	16.4	99
710	Synthese und Reaktivität von Verbindungen mit elektronenpräzisen B-B-Einfach- und B-B-Mehrfachbindungen. *Angewandte Chemie*, **2017**, 129, 100-120	3.6	98
709	Incorporation of a First Row Element into the Bridge of a Strained Metallocenophane: Synthesis of a Boron-Bridged [1]Ferrocenophane. *Angewandte Chemie International Edition in English*, **1997**, 36, 2338-2340		97
708	Controlled homocatenation of boron on a transition metal. *Nature Chemistry*, **2012**, 4, 563-7	17.6	96
707	Synthesis and Characterisation of N,N?-Disubstituted 1,2-phenylenebis(amido)tin(II) Compounds; X-Ray structures of 1,2- and of [1,2- (tmeda). *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **1995**, 621, 1922-1928	1.3	94
706	Einfach-, Doppel-, Dreifachbindungen und Ketten: Knüpfung elektronenpräziser B-B-Bindungen. *Angewandte Chemie*, **2013**, 125, 3658-3667	3.6	93
705	Synthesis of borirenes by photochemical borylene transfer from [(OC)5M==BN(SiMe3)2] (M=Cr, Mo) to alkynes. *Angewandte Chemie - International Edition*, **2005**, 44, 7461-3	16.4	92
704	Boron: Its Role in Energy-Related Processes and Applications. *Angewandte Chemie - International Edition*, **2020**, 59, 8800-8816	16.4	92
703	Formation of BN Isosteres of Azo Dyes by Ring Expansion of Boroles with Azides. *Angewandte Chemie - International Edition*, **2015**, 54, 6347-51	16.4	91
702	The Synthesis of B2(SIDip)2 and its Reactivity Between the Diboracumulenic and Diborynic Extremes. *Angewandte Chemie - International Edition*, **2015**, 54, 13801-5	16.4	91
701	Experimental assessment of the strengths of B-B triple bonds. *Journal of the American Chemical Society*, **2015**, 137, 1766-9	16.4	91
700	Synthese und Struktur eines Carben-stabilisierten Boryl-Anions. *Angewandte Chemie*, **2010**, 122, 2085-2088		88
699	Borylene Transfer from Transition Metal Borylene Complexes. *Organometallics*, **2008**, 27, 6381-6389	3.8	88
698	Terminal borylene complexes stabilized by a transition-metal base. *Angewandte Chemie - International Edition*, **2005**, 44, 3763-6	16.4	88
697	Impact of molecular flexibility on binding strength and self-sorting of chiral surfaces. *Journal of the American Chemical Society*, **2011**, 133, 9580-91	16.4	87
696	Transition Metal Borylene Complexes **2008**, 1-27		87
695	Selective Photocatalytic C-F Borylation of Polyfluoroarenes by Rh/Ni Dual Catalysis Providing Valuable Fluorinated Arylboronate Esters. *Journal of the American Chemical Society*, **2018**, 140, 17612-17623	16.4	87

694	Synthese und Struktur der ersten Borylen-Übergangsmetallkomplexe. *Angewandte Chemie*, **1995**, 107, 904-905	3.6	86
693	The pentaphenylborole-2,6-lutidine adduct: a system with unusual thermochromic and photochromic properties. *Angewandte Chemie - International Edition*, **2011**, 50, 2833-6	16.4	85
692	Complexes with dative bonds between d- and s-block metals: synthesis and structure of [(Cy3P)2Pt-Be(Cl)X] (X = Cl, Me). *Angewandte Chemie - International Edition*, **2009**, 48, 4239-41	16.4	85
691	Axially chiral beta,beta'-bisporphyrins: synthesis and configurational stability tuned by the central metals. *Journal of the American Chemical Society*, **2008**, 130, 17812-5	16.4	85
690	The chemistry of bridged borylene complexes. *Journal of Organometallic Chemistry*, **2000**, 614-615, 18-26	2.3	85
689	From an electron-rich bis(boraketenimine) to an electron-poor diborene. *Angewandte Chemie - International Edition*, **2015**, 54, 4469-73	16.4	84
688	[(OC) Cr=BSi(SiMe)]: A Terminal Borylene Complex with an Electronically Unsaturated Boron Atom. *Angewandte Chemie - International Edition*, **2001**, 40, 4198-4200	16.4	84
687	Aminoborylene complexes of group 6 elements and iron: a synthetic, structural, and quantum chemical study. *Chemistry - A European Journal*, **2007**, 13, 4770-81	4.8	83
686	A linear, anionic dimetalloborylene complex. *Angewandte Chemie - International Edition*, **2008**, 47, 5650-3	16.4	83
685	Non-iron [n]metalloarenophanes. *Accounts of Chemical Research*, **2010**, 43, 455-65	24.3	82
684	Metal-mediated diboration of alkynes with [2]borametalloarenophanes under stoichiometric, homogeneous, and heterogeneous conditions. *Angewandte Chemie - International Edition*, **2006**, 45, 8048-51	16.4	82
683	Uncatalyzed Hydrogenation of First-Row Main Group Multiple Bonds. *Chemistry - A European Journal*, **2016**, 22, 17169-17172	4.8	82
682	Direct functionalization at the boron center of antiaromatic chloroborole. *Chemical Communications*, **2008**, 4487-9	5.8	80
681	Reactivity of Pt0 complexes toward gallium(III) halides: synthesis of a platinum gallane complex and oxidative addition of gallium halides to Pt0. *Inorganic Chemistry*, **2008**, 47, 8595-7	5.1	80
680	Lithiumboryl--a synthon for a nucleophilic boryl anion. *Angewandte Chemie - International Edition*, **2007**, 46, 1946-8	16.4	80
679	Boron in the coordination spheres of three transition-metal atoms: syntheses and structures of metalloborylenes stabilized by a transition-metal base. *Angewandte Chemie - International Edition*, **2006**, 45, 1066-9	16.4	80
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677	Taming the beast: fluoromesityl groups induce a dramatic stability enhancement in boroles. *Chemical Science*, **2015**, 6, 5922-5927	9.4	76

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675	Synthesis and characterization of palladium and platinum iminoboryl complexes. *Angewandte Chemie - International Edition*, **2005**, 45, 162-5	16.4	76
674	Ein T-förmiger Platin(II)borylkomplex als Vorstufe für einen Platinkomplex mit einem basenstabilisierten Borylenliganden. *Angewandte Chemie*, **2005**, 117, 5796-5799	3.6	76
673	Direct synthetic route to functionalized 1,2-azaborinines. *Angewandte Chemie - International Edition* , **2014**, 53, 3500-4	16.4	75
672	The reduction chemistry of ferrocenylborole. *Angewandte Chemie - International Edition*, **2010**, 49, 8975-8	16.4	74
671	Synthesis and electronic structure of a terminal alkylborylene complex. *Angewandte Chemie - International Edition*, **2007**, 46, 7785-7	16.4	74
670	T-shaped platinum boryl complexes: synthesis and structure. *Chemistry - A European Journal*, **2008**, 14, 7858-66	4.8	73
669	Struktureller Nachweis der Antiaromatizität in freien Borolen. *Angewandte Chemie*, **2008**, 120, 1977-1980	3.6	71
668	A boryl bridged complex: an unusual coordination mode of the BR2 ligand. *Angewandte Chemie - International Edition*, **2005**, 44, 1192-4	16.4	71
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666	Pyrene Molecular Orbital Shuffle-Controlling Excited State and Redox Properties by Changing the Nature of the Frontier Orbitals. *Chemistry - A European Journal*, **2017**, 23, 13164-13180	4.8	70
665	Late-transition-metal complexes as tunable Lewis bases. *Chemistry - A European Journal*, **2010**, 16, 11985-92	4.8	70
664	Chemical reduction and dimerization of 1-chloro-2,3,4,5-tetraphenylborole. *Chemistry - A European Journal*, **2010**, 16, 12229-33	4.8	70
663	Synthesis and structure of a cationic platinum borylene complex. *Angewandte Chemie - International Edition*, **2007**, 46, 3979-82	16.4	70
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656	Boron as a bridging ligand. *Chemistry - A European Journal*, **2005**, 11, 6128-33	4.8	68
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653	Boron as a bridging ligand. *Angewandte Chemie - International Edition*, **2005**, 44, 1658-61	16.4	67
652	Synthesis of ansa-[2]boracyclopentadienylcycloheptatrienylchromium and its reaction to the ansa-platinabis(boryl) complex by oxidative addition of the boron-boron bond. *Angewandte Chemie - International Edition*, **2005**, 44, 5647-51	16.4	67
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650	Quaternizing diboranes(4): highly divergent outcomes and an inorganic Wagner-Meerwein rearrangement. *Journal of the American Chemical Society*, **2013**, 135, 8702-7	16.4	66
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648	Synthesis, structure and reactivity of complexes containing a transition metal–bismuth bond. *Coordination Chemistry Reviews*, **2011**, 255, 101-117	23.2	65
647	Synthesis and reactivity studies of iminoboryl complexes. *Journal of the American Chemical Society*, **2008**, 130, 7974-83	16.4	65
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644	B?B and B?E (E = N and o) multiple bonds in the coordination sphere of late transition metals. *Accounts of Chemical Research*, **2014**, 47, 180-91	24.3	64
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642	Neutral Diboron Analogues of Archetypal Aromatic Species by Spontaneous Cycloaddition. *Angewandte Chemie - International Edition*, **2016**, 55, 11271-5	16.4	63
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637	Direkte Hydroborierung von B?B-Bindungen: eine milde Methode zum Aufbau von B?B-Bindungen. *Angewandte Chemie*, **2014**, 126, 3305-3308	3.6	62
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634	Synthesis and electronic structure of a ferroborirene. *Angewandte Chemie - International Edition*, **2007**, 46, 5215-8	16.4	61
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624	Perylene Bisimide Radicals and Biradicals: Synthesis and Molecular Properties. *Angewandte Chemie - International Edition*, **2015**, 54, 13980-4	16.4	58
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622	Synthese und Charakterisierung von Übergangsmetallbase-stabilisierten terminalen Borylenkomplexen. *Angewandte Chemie*, **2005**, 117, 3829-3832	3.6	58
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620	Beryllium bis(diazaborolyl): old neighbors finally shake hands. *Chemical Communications*, **2015**, 51, 737-40	5.8	57
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