Ivo Krummenacher

List of Publications by Citations

172 papers	5,516 citations	40 h-index	67 g-index
190 ext. papers	6,715 ext. citations	8.5 avg, IF	5.97 L-index

#	Paper	IF	Citations
172	Nitrogen fixation and reduction at boron. *Science*, **2018**, 359, 896-900	33.3	632
171	Multidentate ligand systems featuring dual functionality. *Dalton Transactions*, **2008**, 5836-65	4.3	193
170	Metal-free binding and coupling of carbon monoxide at a boron-boron triple bond. *Nature Chemistry*, **2013**, 5, 1025-8	17.6	135
169	Neutral zero-valent s-block complexes with strong multiple bonding. *Nature Chemistry*, **2016**, 8, 638-42	17.6	127
168	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
167	The reductive coupling of dinitrogen. *Science*, **2019**, 363, 1329-1332	33.3	124
166	An isolable radical anion based on the borole framework. *Angewandte Chemie - International Edition* , **2012**, 51, 2977-80	16.4	119
165	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
164	Diborabutatriene: an electron-deficient cumulene. *Angewandte Chemie - International Edition*, **2014**, 53, 9082-5	16.4	116
163	Main-Group Metallomimetics: Transition Metal-like Photolytic CO Substitution at Boron. *Journal of the American Chemical Society*, **2017**, 139, 1802-1805	16.4	111
162	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
161	Boron radical cations from the facile oxidation of electron-rich diborenes. *Angewandte Chemie - International Edition*, **2014**, 53, 5689-93	16.4	105
160	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
159	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
158	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
157	From an electron-rich bis(boraketenimine) to an electron-poor diborene. *Angewandte Chemie - International Edition*, **2015**, 54, 4469-73	16.4	84
156	Carbon–phosphorus triple bond formation through multiple bond metathesis of an anionic niobium phosphide with carbon dioxide. *Polyhedron*, **2012**, 32, 10-13	2.7	71

155	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
154	Bor-Radikalkationen durch Oxidation elektronenreicher Diborene. *Angewandte Chemie*, **2014**, 126, 5797-5801	3.6	67
153	Neutral Diboron Analogues of Archetypal Aromatic Species by Spontaneous Cycloaddition. *Angewandte Chemie - International Edition*, **2016**, 55, 11271-5	16.4	63
152	1-Heteroaromatic-substituted tetraphenylboroles: Interactions between aromatic and antiaromatic rings through a B-C bond. *Journal of the American Chemical Society*, **2012**, 134, 20169-77	16.4	63
151	Generation of Dicoordinate Boron(I) Units by Fragmentation of a Tetra-Boron(I) Molecular Square. *Angewandte Chemie - International Edition*, **2016**, 55, 14464-14468	16.4	62
150	Free Boroles. *Advances in Organometallic Chemistry*, **2013**, 1-53	3.8	60
149	Diborabutatrien: ein elektronenarmes Cumulen. *Angewandte Chemie*, **2014**, 126, 9228-9231	3.6	59
148	Perylene Bisimide Radicals and Biradicals: Synthesis and Molecular Properties. *Angewandte Chemie - International Edition*, **2015**, 54, 13980-4	16.4	58
147	Multiple reduction of 2,5-bis(borolyl)thiophene: isolation of a negative bipolaron by comproportionation. *Angewandte Chemie - International Edition*, **2013**, 52, 12852-5	16.4	57
146	Syntheses, reactivity and DFT studies of group 2 and group 12 metal complexes of tris(pyrazolyl)methanides featuring "free" pyramidal carbanions. *Chemistry - A European Journal*, **2008**, 14, 5918-34	4.8	56
145	Isomerization polymerization of the phosphaalkene MesP=CPh2: an alternative microstructure for poly(methylenephosphine)s. *Angewandte Chemie - International Edition*, **2013**, 52, 6967-70	16.4	55
144	Bor als äußerst starkes Reduktionsmittel: Synthese eines Bor- zentrierten Radikalanionen-Radikalkationen-Paares. *Angewandte Chemie*, **2015**, 127, 366-369	3.6	53
143	Isolierung eines neutralen, Bor-haltigen Radikals, stabilisiert durch ein cyclisches (Alkyl)(amino)carben. *Angewandte Chemie*, **2014**, 126, 7488-7491	3.6	53
142	Ein isolierbares Borol-basiertes Radikalanion. *Angewandte Chemie*, **2012**, 124, 3031-3034	3.6	53
141	Synthesis of cyclic diborenes with unprecedented cis-configuration. *Chemical Communications*, **2015**, 51, 15917-20	5.8	52
140	Von einem elektronenreichen Bis(boraketenimin) zu einem elektronenarmen Diboren. *Angewandte Chemie*, **2015**, 127, 4551-4555	3.6	48
139	Deutliche Belege für Ein-Elektronen-Übertragungen in der Boryl-Anionenchemie: Isolierung und Reaktivität eines neutralen Borolradikals. *Angewandte Chemie*, **2014**, 126, 5557-5561	3.6	47
138	Preparation, Properties, and Structures of the Radical Anions and Dianions of Azapentacenes. *Journal of the American Chemical Society*, **2017**, 139, 15968-15976	16.4	46

137	Coinage metal complexes of tris(pyrazolyl)methanide [C(3,5-Me2pz)3]-: kappa3-coordination vs. backbone functionalisation. *Dalton Transactions*, **2006**, 1073-81	4.3	46
136	Dibora[2]ferrocenophane: A Carbene-Stabilized Diborene in a Strained cis-Configuration. *Angewandte Chemie - International Edition*, **2017**, 56, 889-892	16.4	44
135	Syntheses, structures and electronic properties of zwitterionic iron(II) and cobalt(II) complexes featuring ambidentate tris(pyrazolyl)methanide ligands. *Chemistry - A European Journal*, **2009**, 15, 4350-65	4.8	43
134	Isolation of diborenes and their 90°-twisted diradical congeners. *Nature Communications*, **2018**, 9, 1197	17.4	41
133	Synthese BN-isosterer Verbindungen von Azofarbstoffen durch Ringerweiterung von Borolen mit Aziden. *Angewandte Chemie*, **2015**, 127, 6445-6449	3.6	41
132	Engineering a Small HOMO-LUMO Gap and Intramolecular C-H Borylation by Diborene/Anthracene Orbital Intercalation. *Angewandte Chemie - International Edition*, **2017**, 56, 8009-8013	16.4	38
131	Ring Expansions of Boroles with Diazo Compounds: Steric Control of C or N Insertion and Aromatic/Nonaromatic Products. *Chemistry - A European Journal*, **2015**, 21, 17844-9	4.8	38
130	Synthesis, structure, and reactivity of borole-functionalized ferrocenes. *Chemistry - A European Journal*, **2012**, 18, 11732-46	4.8	37
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128	Unsupported boron-carbon π-coordination to platinum as an isolable snapshot of σ-bond activation. *Nature Communications*, **2012**, 3, 872	17.4	36
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126	From Borane to Borylene without Reduction: Ambiphilic Behavior of a Monovalent Silylisonitrile Boron Species. *Angewandte Chemie - International Edition*, **2017**, 56, 11263-11267	16.4	34
125	O,N,B-Containing eight-membered heterocycles by ring expansion of boroles with nitrones. *Chemical Communications*, **2015**, 51, 14513-5	5.8	34
124	A theoretical study of the aromaticity in neutral and anionic borole compounds. *Dalton Transactions* , **2015**, 44, 6740-7	4.3	34
123	Hole Transfer Processes in meta- and para-Conjugated Mixed Valence Compounds: Unforeseen Effects of Bridge Substituents and Solvent Dynamics. *Journal of the American Chemical Society*, **2017**, 139, 6200-6209	16.4	33
122	Erzeugung zweifach koordinierter Bor(I)-Einheiten durch Fragmentierung eines molekularen Tetra-Bor(I)-Quadrats. *Angewandte Chemie*, **2016**, 128, 14680-14684	3.6	32
121	One-pot, room-temperature conversion of dinitrogen to ammonium chloride at a main-group element. *Nature Chemistry*, **2020**, 12, 1076-1080	17.6	32
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115	Lewis-Base Stabilization of the Parent Al(I) Hydride under Ambient Conditions. *Journal of the American Chemical Society*, **2019**, 141, 16954-16960	16.4	28
114	Bismuth Compounds in Radical Catalysis: Transition Metal Bismuthanes Facilitate Thermally Induced Cycloisomerizations. *Angewandte Chemie - International Edition*, **2019**, 58, 12924-12929	16.4	27
113	The Radical Anion and Dianion of Tetraazapentacene. *Angewandte Chemie - International Edition*, **2016**, 55, 10498-501	16.4	27
112	Perylene Bisimide Radicals and Biradicals: Synthesis and Molecular Properties. *Angewandte Chemie*, **2015**, 127, 14186-14190	3.6	27
111	Mehrfache Reduktion von 2,5-Bis(borolyl)thiophen: Isolierung eines negativen Bipolarons durch Komproportionierung. *Angewandte Chemie*, **2013**, 125, 13088-13092	3.6	27
110	Synthesis and Trapping of Iminoboranes by M=B/C=N Bond Metathesis. *Angewandte Chemie - International Edition*, **2017**, 56, 7975-7979	16.4	26
109	Synthesis, photophysical and electronic properties of tetra-donor- or acceptor-substituted -perylenes displaying four reversible oxidations or reductions. *Chemical Science*, **2019**, 10, 7516-7534	9.4	26
108	Well-Defined, Molecular Bismuth Compounds: Catalysts in Photochemically Induced Radical Dehydrocoupling Reactions. *Chemistry - A European Journal*, **2020**, 26, 14551-14555	4.8	25
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104	1,2,3-Diazaborinine: A BN Analogue of Pyridine Obtained by Ring Expansion of a Borole with an Organic Azide. *Angewandte Chemie - International Edition*, **2019**, 58, 338-342	16.4	24
103	Half-Sandwich Complexes of an Extremely Electron-Donating, Redox-Active ⊟Diborabenzene Ligand. *Journal of the American Chemical Society*, **2018**, 140, 848-853	16.4	24
102	Dibora[2]ferrocenophan: ein carbenstabilisiertes Diboren in einer gespannten cis-Konfiguration. *Angewandte Chemie*, **2017**, 129, 907-911	3.6	23

101	Computationally Guided Molecular Design to Minimize the LE/CT Gap in D-A Fluorinated Triarylboranes for Efficient TADF via D and Bridge Tuning. *Advanced Functional Materials*, **2020**, 30, 2002064	15.6	23
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96	Vom Boran zum Borylen ohne Reduktion: ambiphiles Verhalten einer monovalenten Silylisonitril-Borverbindung. *Angewandte Chemie*, **2017**, 129, 11417-11421	3.6	22
95	Diverse reactions of N-heterocyclic carbenes with an alkynylborane and isolation of a reactive zwitterionic borataallene. *Chemical Communications*, **2014**, 50, 97-9	5.8	22
94	Visible-Light-Induced Ni-Catalyzed Radical Borylation of Chloroarenes. *Journal of the American Chemical Society*, **2020**, 142, 18231-18242	16.4	22
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91	On the relation of energy and electron transfer in multidimensional chromophores based on polychlorinated triphenylmethyl radicals and triarylamines. *Physical Chemistry Chemical Physics*, **2015**, 17, 11848-67	3.6	17
90	Methylbismuth: an organometallic bismuthinidene biradical. *Chemical Science*, **2020**, 11, 7562-7568	9.4	17
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86	f-Block Ansa Complexes in the Solid State: [3]Thoro- and [3]Uranocenophanes. *Chemistry - A European Journal*, **2015**, 21, 9339-42	4.8	16
85	Cationic Main Group Element Cages of Germanium(II) and Tin(II) Consisting of 3,5-Di(t-butyl) Substituted Pyrazolyl Ligands in the Bridging Position. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2007**, 633, 2354-2361	1.3	16
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83	Synthesis and reduction chemistry of mixed-Lewis-base-stabilised chloroborylenes. *Chemical Science*, **2019**, 10, 5095-5103	9.4	15
82	Correlations and Contrasts in Homo- and Heteroleptic Cyclic (Alkyl)(amino)carbene-Containing Pt(0) Complexes. *Chemistry - A European Journal*, **2015**, 21, 12357-62	4.8	14
81	Synthesis of Complex Boron-Nitrogen Heterocycles Comprising Borylated Triazenes and Tetrazenes Under Mild Conditions. *Journal of the American Chemical Society*, **2020**, 142, 1065-1076	16.4	14
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79	DFT Studies on the Reactions of Boroles with Alkynes. *Chemistry - A European Journal*, **2018**, 24, 9612-9621	4.8	13
78	Stable Organic (Bi)Radicals by Delocalization of Spin Density into the Electron-Poor Chromophore Core of Isoindigo. *Chemistry - A European Journal*, **2018**, 24, 3420-3424	4.8	13
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71	Reduction of a dihydroboryl cation to a boryl anion and its air-stable, neutral hydroboryl radical through hydrogen shuttling. *Chemical Science*, **2020**, 11, 551-555	9.4	12
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