Priv-Doz Dr Crispin Lichtenberg

List of Publications by Citations

64 papers	1,077 citations	21 h-index	29 g-index
81 ext. papers	1,355 ext. citations	6.6 avg, IF	5.37 L-index

#	Paper	IF	Citations
64	Low-valent iron(i) amido olefin complexes as promotors for dehydrogenation reactions. *Angewandte Chemie - International Edition*, **2015**, 54, 5766-71	16.4	52
63	The bis(allyl)bismuth cation: a reagent for direct allyl transfer by Lewis acid activation and controlled radical polymerization. *Angewandte Chemie - International Edition*, **2012**, 51, 13011-5	16.4	52
62	Dibora[2]ferrocenophane: A Carbene-Stabilized Diborene in a Strained cis-Configuration. *Angewandte Chemie - International Edition*, **2017**, 56, 889-892	16.4	44
61	Double CH Activation of a Masked Cationic Bismuth Amide. *Angewandte Chemie - International Edition*, **2018**, 57, 3825-3829	16.4	41
60	The allylcalcium monocation: a bridging allyl ligand with a non-bent coordination geometry. *Angewandte Chemie - International Edition*, **2011**, 50, 5753-6	16.4	41
59	Low-Valent Iron Mono-Diazadiene Compounds: Electronic Structure and Catalytic Application. *ACS Catalysis*, **2015**, 5, 6230-6240	13.1	39
58	Carbon monoxide insertion at a heavy p-block element: unprecedented formation of a cationic bismuth carbamoyl. *Chemical Science*, **2019**, 10, 4169-4176	9.4	36
57	Structurally defined allyl compounds of main group metals: coordination and reactivity. *Angewandte Chemie - International Edition*, **2013**, 52, 5228-46	16.4	32
56	Cationic, neutral, and anionic allyl magnesium compounds: unprecedented ligand conformations and reactivity toward unsaturated hydrocarbons. *Journal of the American Chemical Society*, **2013**, 135, 811-21	16.4	29
55	Bis(allyl)aluminum Cation, Tris(allyl)aluminum, and Tetrakis(allyl)aluminate: Synthesis, Characterization, and Reactivity *Organometallics*, **2010**, 29, 5714-5721	3.8	29
54	Neutral and Cationic Bismuth Compounds: Structure, Heteroaromaticity, and Lewis Acidity of Bismepines. *Inorganic Chemistry*, **2020**, 59, 3367-3376	5.1	29
53	Bismuth Compounds in Radical Catalysis: Transition Metal Bismuthanes Facilitate Thermally Induced Cycloisomerizations. *Angewandte Chemie - International Edition*, **2019**, 58, 12924-12929	16.4	27
52	Well-Defined, Mononuclear Bi(I) and Bi(II) Compounds: Towards Transition-Metal-Like Behavior. *Angewandte Chemie - International Edition*, **2016**, 55, 484-6	16.4	27
51	Bis(allyl)zinc revisited: sigma versus pi bonding of allyl coordination. *Journal of the American Chemical Society*, **2012**, 134, 9805-11	16.4	26
50	Well-Defined, Molecular Bismuth Compounds: Catalysts in Photochemically Induced Radical Dehydrocoupling Reactions. *Chemistry - A European Journal*, **2020**, 26, 14551-14555	4.8	25
49	Cationic Bismuth Amides: Accessibility, Structure, and Reactivity. *Chemistry - A European Journal*, **2016**, 22, 18465-18475	4.8	24
48	Dibora[2]ferrocenophan: ein carbenstabilisiertes Diboren in einer gespannten cis-Konfiguration. *Angewandte Chemie*, **2017**, 129, 907-911	3.6	23

47	Bis(allyl)gallium cation, tris(allyl)gallium, and tetrakis(allyl)gallate: synthesis, characterization, and reactivity. *Inorganic Chemistry*, **2012**, 51, 2254-62	5.1	23
46	Molecular Bismuth Cations: Assessment of Soft Lewis Acidity. *Chemistry - A European Journal*, **2020**, 26, 10250-10258	4.8	22
45	Niedervalente Eisen(I)-Amido-Olefinkomplexe als Promotoren von Dehydrierungsreaktionen. *Angewandte Chemie*, **2015**, 127, 5858-5863	3.6	22
44	Das Calciumallyl-Monokation: ein verbrückender Allylligand in nicht-gewinkelter Koordinationsgeometrie. *Angewandte Chemie*, **2011**, 123, 5872-5875	3.6	22
43	Aminotroponiminates: Alkali Metal Compounds Reveal Unprecedented Coordination Modes. *Organometallics*, **2016**, 35, 894-902	3.8	21
42	Das Bis(allyl)bismut-Kation: ein Reagens für direkte Allyl-Übertragung und kontrollierte radikalische Polymerisation. *Angewandte Chemie*, **2012**, 124, 13186-13190	3.6	21
41	Deprotonated P-ylides As Templates for Novel Cyclopentadienyl Phosphonioalkyl, -alkylidene, and -alkylidyne (CpPC) Constrained-Geometry Complexes. *Organometallics*, **2013**, 32, 5082-5091	3.8	20
40	Doppelte CH-Aktivierung eines maskierten Bismutamid-Kations. *Angewandte Chemie*, **2018**, 130, 3887-3891	3.6	18
39	Aminotroponiminates as tunable, redox-active ligands: reversible single electron transfer and reductive dimerisation. *Chemical Communications*, **2016**, 52, 10044-7	5.8	18
38	Mono- and Dinuclear Neutral and Cationic Iron(II) Compounds Supported by an Amidinato-diolefin Ligand: Characterization and Catalytic Application. *Organometallics*, **2015**, 34, 3079-3089	3.8	18
37	Reactivity of Tris(allyl)aluminum toward Pyridine: Coordination versus Carbometalation. *Organometallics*, **2011**, 30, 4409-4417	3.8	18
36	Low-valent iron: an Fe(I) ate compound as a building block for a linear trinuclear Fe cluster. *Chemical Communications*, **2015**, 51, 13890-3	5.8	17
35	Methylbismuth: an organometallic bismuthinidene biradical. *Chemical Science*, **2020**, 11, 7562-7568	9.4	17
34	Aminotroponiminates: ligand-centred, reversible redox events under oxidative conditions in sodium and bismuth complexes. *Dalton Transactions*, **2018**, 47, 10578-10589	4.3	17
33	New Lithium Phosphonium Diylides: A Methylene and a Cyclopentadienyl Moiety as Ylidic Coordination Sites. *Organometallics*, **2012**, 31, 4259-4266	3.8	17
32	Strukturell definierte Allylverbindungen der Hauptgruppenmetalle: Koordination und Reaktivität. *Angewandte Chemie*, **2013**, 125, 5336-5354	3.6	17
31	Main-Group Metal Complexes in Selective Bond Formations Through Radical Pathways. *Chemistry - A European Journal*, **2020**, 26, 9674-9687	4.8	16
30	New Perspectives for Aminotroponiminates: Coordination Chemistry, Redox Behavior, Cooperativity, and Catalysis. *European Journal of Inorganic Chemistry*, **2018**, 2018, 3361-3373	2.3	15

29	Reversible 1,4-insertion of pyridine into a highly polar metal-carbon bond: effect of the second metal. *Chemistry - A European Journal*, **2012**, 18, 6448-52	4.8	12
28	Bismuth Amides Mediate Facile and Highly Selective Pn-Pn Radical-Coupling Reactions (Pn=N, P, As). *Angewandte Chemie - International Edition*, **2021**, 60, 6441-6445	16.4	12
27	Sodium Aminotroponiminates: Ligand-Induced Disproportionation, Mixed-Metal Compounds, and Exceptional Activity in Polymerization Catalysis. *ChemCatChem*, **2018**, 10, 4018-4027	5.2	12
26	Molecular bismuth(III) monocations: structure, bonding, reactivity, and catalysis. *Chemical Communications*, **2021**, 57, 4483-4495	5.8	11
25	Dimerization of the allylzinc cation: selective coupling of allyl anions in a metallo-ene reaction. *Angewandte Chemie - International Edition*, **2012**, 51, 8101-5	16.4	10
24	Definierte, einkernige BiI- und BiII-Verbindungen: auf dem Weg zu Übergangsmetall-ähnlichem Verhalten. *Angewandte Chemie*, **2016**, 128, 494-496	3.6	10
23	Cationic Bismuth Compounds in Organic Synthesis and Catalysis: New Prospects for CH Activation. *Synlett*, **2018**, 29, 2213-2217	2.2	10
22	Rationalizing the Effect of Ligand Substitution Patterns on Coordination and Reactivity of Alkali Metal Aminotroponiminates. *Organometallics*, **2018**, 37, 1781-1787	3.8	8
21	Alkali-Metal Aminotroponiminates: Selectivities and Equilibria in Reversible Radical Coupling of Delocalized π-Electron Systems. *Chemistry - A European Journal*, **2019**, 25, 11883-11891	4.8	7
20	Combined experimental and theoretical studies towards mutual osmium-bismuth donor/acceptor bonding. *Dalton Transactions*, **2020**, 49, 9024-9034	4.3	7
19	A Low-Valent Iron Imido Heterocubane Cluster: Reversible Electron Transfer and Catalysis of Selective C-C Couplings. *Angewandte Chemie - International Edition*, **2015**, 54, 13012-7	16.4	7
18	Dimerisierung des Allylzink-Kations: selektive Kupplung von Allylanionen in einer Metallo-En-Reaktion. *Angewandte Chemie*, **2012**, 124, 8225-8229	3.6	7
17	Bismutverbindungen in der Radikalkatalyse: Übergangsmetallbismutane ermöglichen thermisch induzierte Cycloisomerisierungen. *Angewandte Chemie*, **2019**, 131, 13056-13062	3.6	6
16	Investigation of novel and reinvestigation of known cyclopentadienylphosphanes: News on [1,5] sigmatropic rearrangements. *Journal of Organometallic Chemistry*, **2010**, 695, 2000-2006	2.3	4
15	Cationic Bismuth Aminotroponiminates: Charge Controls Redox Properties. *Chemistry - A European Journal*, **2021**, 27, 6230-6239	4.8	4
14	Diolefins with an ether/thioether functionality as ligands in the coordination sphere of Ni and Rh. *Dalton Transactions*, **2015**, 44, 20056-66	4.3	3
13	Reactivity of an All-Ferrous Iron-Nitrogen Heterocubane under Reductive and Oxidative Conditions. *Chemistry - A European Journal*, **2015**, 21, 15797-805	4.8	3
12	Unexpected Oxidative Dimerisations of a Cyclopentadienyl-Phosphane – Formation of Unprecedented, Structurally Remarkable Phosphacyclic Compounds. *European Journal of Inorganic Chemistry*, **2010**, 2010, 3117-3124	2.3	3

List of Publications

11	Bismuth Atoms in Hydrocarbon Ligands: Bismepines as Rigid, Ditopic Arene Donors in Coordination Chemistry. *Organometallics*, **2021**, 40, 832-837	3.8	3
10	Synthesis and characterisation of boranediyl- and diboranediyl-bridged diplatinum A-frame complexes. *Dalton Transactions*, **2021**, 50, 3506-3515	4.3	3
9	Bismuth species in the coordination sphere of transition metals: synthesis, bonding, coordination chemistry, and reactivity of molecular complexes. *Dalton Transactions*, **2021**, 50, 7120-7138	4.3	3
8	Salicylaldimines: Formation via Ring Contraction and Synthesis of Mono- and Heterobimetallic Alkali Metal Heterocubanes. *Inorganic Chemistry*, **2020**, 59, 17678-17688	5.1	2
7	Bismutamide als einfache Vermittler hochselektiver PnPn-Radikal-Kupplungsreaktionen (Pn=N, P, As). *Angewandte Chemie*, **2021**, 133, 6513-6518	3.6	2
6	The Dimethylbismuth Cation: Entry Into Dative Bi-Bi Bonding and Unconventional Methyl Exchange. *Angewandte Chemie - International Edition*, **2021**, 60, 24388-24394	16.4	2
5	Radical Compounds of Antimony and Bismuth1-12		2
4	A Low-Valent Iron Imido Heterocubane Cluster: Reversible Electron Transfer and Catalysis of Selective CC Couplings. *Angewandte Chemie*, **2015**, 127, 13204-13209	3.6	1
3	Dimerization of 2-[(2-((2-aminophenyl)thio)phenyl)amino]-cyclohepta-2,4,6-trien-1-one through hydrogen bonding, C19H16N2OS. *Zeitschrift Fur Kristallographie - New Crystal Structures*, **2020**, 235, 963-966	0.2	1
2	Aminotroponiminates: Impact of the NO Functional Group on Coordination, Isomerisation, and Backbone Substitution. *Chemistry - A European Journal*, **2021**, 27, 14250-14262	4.8	1
1	Mein Lieblingselement: Bismut. *Nachrichten Aus Der Chemie*, **2019**, 67, 61-65	0.1	0