Viktoria H Gessner

List of Publications by Year
in descending order

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122	3,541	109321	168389
papers	citations	35 h-index	53 g-index

139	139	139	2057
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure Formation Principles and Reactivity of Organolithium Compounds. Chemistry - A European Journal, 2009, 15, 3320-3334.	3.3	231
2	Transition metal borylene complexes. Chemical Society Reviews, 2013, 42, 3197.	38.1	193
3	Total Synthesis and Absolute Configuration of the Guaiane Sesquiterpene Englerinâ€…A. Angewandte Chemie - International Edition, 2009, 48, 9105-9108.	13.8	119
4	Ylideâ€Functionalized Phosphines: Strong Donor Ligands for Homogeneous Catalysis. Angewandte Chemie - International Edition, 2018, 57, 12859-12864.	13.8	97
5	The Bonding Situation in Metalated Ylides. Chemistry - A European Journal, 2017, 23, 4422-4434.	3.3	92
6	A Highly Active Ylideâ€Functionalized Phosphine for Palladiumâ€Catalyzed Aminations of Aryl Chlorides. Angewandte Chemie - International Edition, 2019, 58, 3203-3207.	13.8	91
7	Lithiation of TMEDA and its Higher Homologous TEEDA: Understanding Observed Î±- and Î²-Deprotonation. Journal of the American Chemical Society, 2008, 130, 14412-14413.	13.7	74
8	Synthesis of P-Stereogenic Compounds via Kinetic Deprotonation and Dynamic Thermodynamic Resolution of Phosphine Sulfides: Opposite Sense of Induction Using (â^')-Sparteine. Journal of the American Chemical Society, 2010, 132, 13922-13927.	13.7	74
9	Stability and reactivity control of carbenoids: recent advances and perspectives. Chemical Communications, 2016, 52, 12011-12023.	4.1	72
10	Cooperative bond activation reactions with carbene complexes. Chemical Communications, 2018, 54, 6540-6553.	4.1	71
11	Crystal Structures of the Chiral Diamine (R,R)-TMCDA with the Commonly Used Alkyllithium Bases Methyllithium,iso-Propyllithium, andsec-Butyllithium. Journal of the American Chemical Society, 2007, 129, 8952-8953.	13.7	66
12	Synthesis and Bonding in Carbene Complexes of an Unsymmetrical Dilithio Methandiide: A Combined Experimental and Theoretical Study. Chemistry - A European Journal, 2013, 19, 16729-16739.	3.3	64
13	From the Alkyllithium Aggregate [{(nBuLi)2â‹…PMDTA}2] to Lithiated PMDTA. Angewandte Chemie - International Edition, 2007, 46, 4566-4569.	13.8	61
14	Assembly of Macrocycles by Zirconocene-Mediated, Reversible Carbonâ^'Carbon Bond Formation. Accounts of Chemical Research, 2011, 44, 435-446.	15.6	60
15	Chiral 2â€endoâ€Substituted 9â€Oxabispidines: Novel Ligands for Enantioselective Copper(II)â€Catalyzed Henry Reactions. Chemistry - A European Journal, 2009, 15, 12764-12769.	3.3	57
16	Selective Dehydrocoupling of Phosphines by Lithium Chloride Carbenoids. Journal of the American Chemical Society, 2014, 136, 15517-15520.	13.7	54
17	Remote Sensing of In-Use Heavy-Duty Diesel Trucks. Environmental Science & Technology, 2006, 40, 6938-6942.	10.0	52
18	From Monomeric tBuLiâ‹…(R,R)â€TMCDA to Î±â€Lithiated (R,R)â€TMCDA. Angewandte Chemie - International Edition, 2007, 46, 8281-8283.	13.8	52

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19	Crystal Structures of n-BuLi Adducts with (R,R)-TMCDA and the Consequences for the Deprotonation of Benzene. Journal of the American Chemical Society, 2008, 130, 11719-11725.	13.7	52
20	Selective Vinyl Câ^'H Lithiation of cis-Stilbenes. Journal of the American Chemical Society, 2009, 131, 3142-3143.	13.7	48
21	Ylide-Functionalized Phosphine (YPhos)â€"Palladium Catalysts: Selective Monoarylation of Alkyl Ketones with Aryl Chlorides. Organic Letters, 2019, 21, 7558-7562.	4.6	48
22	Bridging the Gap between Bisylides and Methandiides: Isolation, Reactivity, and Electronic Structure of an Yldiide. Angewandte Chemie - International Edition, 2015, 54, 8542-8546.	13.8	47
23	Metalated Ylides: A New Class of Strong Donor Ligands with Unique Electronic Properties. Inorganic Chemistry, 2017, 56, 8599-8607.	4.0	47
24	Palladium Complexes Based on Ylideâ€Functionalized Phosphines (YPhos): Broadly Applicable Highâ€Performance Precatalysts for the Amination of Aryl Halides at Room Temperature. Chemistry - A European Journal, 2020, 26, 4281-4288.	3.3	46
25	Auâ‹…â‹…â‹…Hâ^'C Hydrogen Bonds as Design Principle in Gold(I) Catalysis. Angewandte Chemie - International Edition, 2021, 60, 21014-21024.	13.8	45
26	Isopropyllithium diamine adducts: from a non symmetric aggregate to monomeric i-PrLiÂ·(1R,2R)-N,N,Nâ€²,Nâ€²-tetraethylcyclohexane-1,2-diamine. Chemical Communications, 2008, , 3381.	4.1	44
27	Methandiide as a Nonâ€Innocent Ligand in Carbene Complexes: From the Electronic Structure to Bond Activation Reactions and Cooperative Catalysis. Chemistry - A European Journal, 2014, 20, 11295-11299.	3.3	44
28	Phosphorus-ylides: powerful substituents for the stabilization of reactive main group compounds. Chemical Science, 2021, 12, 2016-2024.	7.4	44
29	Reactivity of Stabilized Li/Cl Carbenoids towards Lewis Base Adducts of BH₃: Bï£¿H Bond Activation versus Carbene Dimerization. Chemistry - A European Journal, 2013, 19, 11858-11862.	3.3	41
30	Ylideâ€Functionalized Phosphines: Strong Donor Ligands for Homogeneous Catalysis. Angewandte Chemie, 2018, 130, 13041-13046.	2.0	41
31	Unraveling the High Activity of Ylide-Functionalized Phosphines in Palladium-Catalyzed Amination Reactions: A Comparative Study with ^{Cy}JohnPhos and PtBu₃. ACS Catalysis, 2020, 10, 999-1009.	11.2	40
32	Coupling of Reformatsky Reagents with Aryl Chlorides Enabled by Ylideâ€Functionalized Phosphine Ligands. Angewandte Chemie - International Edition, 2021, 60, 6778-6783.	13.8	40
33	Substitution Effects on the Formation of Tâ€Shaped Palladium Carbene and Thioketone Complexes from Li/Cl Carbenoids. Chemistry - A European Journal, 2014, 20, 10752-10762.	3.3	39
34	Isolation of a Diylideâ€Stabilized Stannylene and Germylene: Enhanced Donor Strength through Coplanar Lone Pair Alignment. Angewandte Chemie - International Edition, 2019, 58, 7459-7463.	13.8	39
35	Efficient Pdâ€Catalyzed Direct Coupling of Aryl Chlorides with Alkyllithium Reagents. Angewandte Chemie - International Edition, 2020, 59, 20596-20603.	13.8	39
36	Tetrahedral versus Planar Fourâ€Coordinate Carbon: A Sulfonylâ€Substituted Methandiide. Chemistry - A European Journal, 2012, 18, 11223-11227.	3.3	37

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37	Using Ylide Functionalization to Stabilize Boron Cations. Angewandte Chemie - International Edition, 2017, 56, 3275-3279.	13.8	37
38	Formation of a Palladium Thioketone Complex from a Thiophosphinoyl Stabilized Li/Cl Carbenoid. Organometallics, 2011, 30, 4228-4231.	2.3	35
39	Mechanistic Insight into Stereoselective Carbolithiation. Chemistry - A European Journal, 2011, 17, 2996-3004.	3.3	35
40	Synthesis and Electronic Structure of Carbene Complexes Based on a Sulfonyl-Substituted Dilithio Methandiide. Organometallics, 2014, 33, 1310-1317.	2.3	35
41	Carbene Complexes Based on Dilithium Methandiides. European Journal of Inorganic Chemistry, 2015, 2015, 1841-1859.	2.0	34
42	Towards the rational design of ylide-substituted phosphines for gold(<scp>i</scp>)-catalysis: from inactive to ppm-level catalysis. Chemical Science, 2021, 12, 4329-4337.	7.4	33
43	On the structure and ambiphilicity of a sulfonyl substituted Î±-chloro lithium base. Dalton Transactions, 2014, 43, 4320.	3.3	32
44	A Precoordination Complex of 1,2,3â€Trimethylâ€1,3,5â€triazacyclohexane with tertâ€Butyllithium as Key Intermediate in Its Methylene Group Deprotonation. Chemistry - an Asian Journal, 2008, 3, 1929-1934.	3.3	30
45	Ein hochaktives, Ylidâ€funktionalisiertes Phosphan fÃ¼r die palladiumkatalysierte Aminierung von Arylchloriden. Angewandte Chemie, 2019, 131, 3235-3239.	2.0	30
46	Structure, Bonding, and Reactivity of Room-Temperature-Stable Lithium Chloride Carbenoids. Organometallics, 2014, 33, 347-353.	2.3	28
47	Alkali Metal Carbenoids: A Case of Higher Stability of the Heavier Congeners. Angewandte Chemie - International Edition, 2016, 55, 7712-7716.	13.8	28
48	Synthesis and stability of Li/Cl carbenoids based on bis(iminophosphoryl)methanes. Dalton Transactions, 2014, 43, 14399-14408.	3.3	26
49	Cooperative Pâ€“H Bond Activation with Ruthenium and Iridium Carbene Complexes. Organometallics, 2016, 35, 2507-2515.	2.3	26
50	Ylide-Substituted Phosphines: A Platform of Strong Donor Ligands for Gold Catalysis and Palladium-Catalyzed Coupling Reactions. Accounts of Chemical Research, 2022, 55, 770-782.	15.6	26
51	Siâ€“H activation by means of metal ligand cooperation in a methandiide derived carbene complex. Chemical Communications, 2015, 51, 14909-14912.	4.1	25
52	Understanding Structure Formation in Organolithium Compounds: An Experimental and Quantumâ€Chemical Approach. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 2077-2085.	1.2	24
53	Versatile Modes of Cooperative Bâ€“H Bond Activation Reactions in Rutheniumâ€Carbene Complexes: Addition, Ringâ€Opening and Insertion. Chemistry - A European Journal, 2018, 24, 3439-3443.	3.3	24
54	Mono- and diylide-substituted phosphines (YPhos): impact of the ligand properties on the catalytic activity in gold(i)-catalysed hydroaminations. Catalysis Science and Technology, 2019, 9, 6808-6815.	4.1	23

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55	Lithiation of Diamine Ligands to Chiral Building Blocks: Syntheses, Selectivities, and Lithiated Intermediates. Organometallics, 2010, 29, 1858-1861.	2.3	22
56	Metalâ€Ligand Cooperativity in a Methandiideâ€Derived Iridium Carbene Complex. Chemistry - A European Journal, 2016, 22, 3846-3855.	3.3	22
57	Preparation and Isolation of a Chiral Methandiide and Its Application as Cooperative Ligand in Bond Activation. Chemistry - A European Journal, 2016, 22, 506-510.	3.3	22
58	Selective Pd-Catalyzed Monoarylation of Small Primary Alkyl Amines through Backbone-Modification in Ylide-Functionalized Phosphines (YPhos). Journal of Organic Chemistry, 2020, 85, 14674-14683.	3.2	21
59	Preparation of â€œSiâ€Centeredâ€Chiral Silanes by Direct Î±â€Lithiation of Methylsilanes. Chemistry - A European Journal, 2010, 16, 4048-4062.	3.3	20
60	Unexpected direct dilithiation of a prochiral phosphine borane. Chemical Communications, 2010, 46, 4719.	4.1	20
61	Taming Metal/Fluorine Carbenoids. Chemistry - A European Journal, 2017, 23, 2527-2531.	3.3	20
62	Simple is best: Diamine zinc complexes as unexpected catalysts in lactide polymerisation. Polyhedron, 2013, 49, 151-157.	2.2	19
63	Catalytic Transfer Hydrogenation with a Methandiideâ€Based Carbene Complex: An Experimental and Computational Study. Chemistry - A European Journal, 2015, 21, 16103-16112.	3.3	19
64	Efficient Pdâ€Catalyzed Direct Coupling of Aryl Chlorides with Alkyllithium Reagents. Angewandte Chemie, 2020, 132, 20777-20784.	2.0	19
65	Synthesis of Lowâ€Valent Dinuclear Groupâ€...14 Compounds with Elementâ€“Element Bonds by Transylidation. Chemistry - A European Journal, 2020, 26, 15145-15149.	3.3	18
66	Isolation of the Metalated Ylides [Ph₃Pâ^'Câ^'CN]M (M=Li, Na, K): Influence of the Metal Ion on the Structure and Bonding Situation. Chemistry - A European Journal, 2019, 25, 2793-2802.	3.3	17
67	Kupplung von Reformatskyâ€Reagenzien und Arylchloriden ermÃ¶glicht durch Ylidâ€funktionalisierte Phosphanliganden. Angewandte Chemie, 2021, 133, 6852-6858.	2.0	17
68	Lithium Chloride Carbenoids in Bond Activation Reactions. Synlett, 2015, 26, 861-865.	1.8	16
69	Alkali Metal Carbenoids: A Case of Higher Stability of the Heavier Congeners. Angewandte Chemie, 2016, 128, 7843-7847.	2.0	16
70	A diamino-substituted carbodiphosphorane as strong C-donor and weak N-donor: isolation of monomeric trigonal-planar LÂ·ZnCl2. Chemical Communications, 2020, 56, 8051-8054.	4.1	16
71	Using Ylide Functionalization to Stabilize Boron Cations. Angewandte Chemie, 2017, 129, 3323-3327.	2.0	15
72	Cooperative Bond Activation Reactions with Ruthenium Carbene Complex PhSO₂(Ph₂PNSiMe₃)Câ•Ru(p-cymene): Ruâ•C and Nâ€“Si Bond Reactivity. Organometallics, 2018, 37, 645-654.	2.3	15

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73	Ylideâ€Functionalization via Metalated Ylides: Synthesis and Structural Properties. ChemistryOpen, 2019, 8, 621-626.	1.9	15
74	Ylideâ€Functionalized Diisopropyl Phosphine (prYPhos): A Ligand for Selective Suzukiâ€Miyaura Couplings of Aryl Chlorides. Advanced Synthesis and Catalysis, 2022, 364, 3336-3341.	4.3	15
75	Auâ‹…â‹…â‹…Hâ^'C Hydrogen Bonds as Design Principle in Gold(I) Catalysis. Angewandte Chemie, 2021, 133, 21182-21192.	2.0	14
76	Group 9 and 10 Metal Complexes of an Ylide-Substituted Phosphine: Coordination versus Cyclometalation and Oxidative Addition. Inorganic Chemistry, 2019, 58, 8151-8161.	4.0	13
77	Selective [2+2] Cycloaddition Reactions of Isocyanates and Thioisocyanates across the M=C Bond in a Ruthenium Carbene Complex. European Journal of Inorganic Chemistry, 2015, 2015, 4192-4198.	2.0	12
78	Synthesis, Isolation and Crystal Structures of the Metalated Ylides [Cy₃Pâ€Câ€SO₂Tol]M (M = Li, Na, K). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 835-841.	1.2	12
79	Î±â€Lithiated (R,R)â€TMCDA as an Efficient Building Block for the Preparation of Chiral N,N,O Ligands by Asymmetric 1,2â€Addition. European Journal of Inorganic Chemistry, 2010, 2010, 5640-5649.	2.0	11
80	One-Pot Ugi/Aza-Michael Synthesis of Highly Substituted 2,5-Diketopiperazines with Anti-Proliferative Properties. Molecules, 2012, 17, 14685-14699.	3.8	11
81	Mono- and Bis-Cyclometalated Palladium Complexes: Synthesis, Characterization, and Catalytic Activity. Organometallics, 2016, 35, 159-167.	2.3	11
82	Ylide-Substituted Phosphines with a Cyclic Ylide-Backbone: Angle Dependence of the Donor Strength. Organometallics, 2021, 40, 2888-2900.	2.3	11
83	Diphenylanthracene Macrocylces from Reductive Zirconocene Coupling: On the Edge of Steric Overload. Organic Letters, 2011, 13, 1154-1157.	4.6	10
84	Synthesis and Characterization of a Sulfonyl- and Iminophosphoryl-Functionalized Methanide and Methandiide. Inorganics, 2016, 4, 40.	2.7	10
85	Isolierung eines diylidstabilisierten Stannylens und Germylens: ErhÃ¶hte DonorstÃrke durch coplanare Anordnung freier Elektronenpaare. Angewandte Chemie, 2019, 131, 7537-7541.	2.0	10
86	Theoretical and spectroscopic studies on the conformational equilibrium of 9-oxabispidines in solution. Journal of Molecular Structure, 2011, 1005, 178-185.	3.6	9
87	Formation of Specific Configurations at Stereogenic Nitrogen Centers upon Their Coordination to Zinc and Mercury. Inorganic Chemistry, 2012, 51, 8516-8523.	4.0	9
88	Cooperative Bond Activation Reactions with Nickel and Palladium Carbene Complexes with a PC_{carbene}S Pincer Ligand. Organometallics, 2019, 38, 4093-4104.	2.3	9
89	Ylideâ€Stabilized Phosphenium Cations: Impact of the Substitution Pattern on the Coordination Chemistry. Chemistry - A European Journal, 2022, 28, .	3.3	9
90	[{(C₇H₇LiO)₆(thf)₂(Î¼â€diglymeâ€Î²O,Î²Oâ€²)}Li₂O]: a Î¼⁶â€O^{2â€“} Ion Encapsulating Aryllithium Compound. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 2285-2287.	1.2	8

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91	Synthesis and solid-state structures of gold(<scp>i</scp>) complexes of diphosphines. New Journal of Chemistry, 2016, 40, 6467-6474.	2.8	8
92	Alkali Metal Chlorine and Bromine Carbenoids: Their Thermal Stability and Structural Properties. Chemistry - A European Journal, 2017, 23, 12372-12379.	3.3	8
93	Formation of Extended 1D and 2D Coordination Polymers in Tetrathioether Complexes of Mercury(II) and Copper(I): Crystal Structures of [{{Ge(CH₂SPh)₄}HgBr₂}_n] and		

#	Article	IF	Citations
109	(2,2-Dichlorovinyl)ferrocene. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m334-m334.	0.2	1
110	Synthesis, structure and thermal stability of a crown ether complexed K/Cl carbenoid. Inorganica Chimica Acta, 2017, 457, 29-33.	2.4	1
111	Carbon Dioxide Catalyzed Cyclometallation of a Carbene Complex: Synthesis and Mechanism. European Journal of Inorganic Chemistry, 2019, 2019, 2990-2995.	2.0	1
112	Carbene complex formation versus cyclometallation from a phosphoryl-tethered methanide ruthenium complex. Journal of Organometallic Chemistry, 2020, 915, 121235.	1.8	1
113	LÃ¶sungsmitteleinflÃ¼sse auf die Struktur und StabilitÃt von Alkalimetallcarbenoiden. Angewandte Chemie, 2021, 133, 498-504.	2.0	1
114	Coordination Chemistry of Methandiides and Related Ligands. , 2021, , 667-687.		1
115	Synthesis, Crystal and Electronic Structures of a Thiophosphinoylâ€•and Aminoâ€Substituted Metallated Ylide. ChemistryOpen, 2021, 10, 1088-1088.	1.9	1
116	Carbene Complexes Based on Dilithium Methandiides. European Journal of Inorganic Chemistry, 2015, 2015, 1828-1828.	2.0	0
117	InnenrÃ¼cktitelbild: Alkali Metal Carbenoids: A Case of Higher Stability of the Heavier Congeners (Angew. Chem. 27/2016). Angewandte Chemie, 2016, 128, 7993-7993.	2.0	0
118	Titelbild: Ylide-Functionalized Phosphines: Strong Donor Ligands for Homogeneous Catalysis (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.0	0
119	Cationic Phosphorus Compounds Based on a Bis(1-piperidinyl)-Substituted Carbodiphosphorane: Syntheses, Structures, and C_{sp³}â€“H Activation. Organometallics, 2020, 39, 4312-4319.	2.3	0
120	(1R,2R)-N,Nâ€²-Diisobutyl-N,Nâ€²-dimethylcyclohexane-1,2-diamine. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o956-o956.	0.2	0
121	Tritiation gets selective. , 2022, 1, 16-17.		0
122	From Stable PHâ€Ylides to Î±â€Carbanionic Phosphines as Ligands for Zwitterionic Catalysts. Angewandte Chemie, 0, , .	2.0	0