

Gernot Frenking

List of Publications by Year in descending order

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294
papers

26,235
citations

3721

89
h-index

8370

147
g-index

319
all docs

319
docs citations

319
times ranked

8462
citing authors

#	ARTICLE	IF	CITATIONS
1	The Nature of the Bonding in Transition-Metal Compounds. <i>Chemical Reviews</i> , 2000, 100, 717-774.	23.0	1,101
2	Investigation of Donor-Acceptor Interactions: A Charge Decomposition Analysis Using Fragment Molecular Orbitals. <i>The Journal of Physical Chemistry</i> , 1995, 99, 9352-9362.	2.9	710
3	Energy decomposition analysis. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2012, 2, 43-62.	6.2	613
4	Synthesis and Characterization of a Neutral Tricoordinate Organoboron Isoelectronic with Amines. <i>Science</i> , 2011, 333, 610-613.	6.0	486
5	Comparative Theoretical Study of Lewis Acid-Base Complexes of BH ₃ , BF ₃ , BCl ₃ , AlCl ₃ , and SO ₂ . <i>Journal of the American Chemical Society</i> , 1994, 116, 8741-8753.	6.6	435
6	Isolation of a C ₅ -Deprotonated Imidazolium, a Crystalline "Abnormal" N-Heterocyclic Carbene. <i>Science</i> , 2009, 326, 556-559.	6.0	404
7	Towards a rigorously defined quantum chemical analysis of the chemical bond in donor-acceptor complexes. <i>Coordination Chemistry Reviews</i> , 2003, 238-239, 55-82.	9.5	394
8	Divalent Carbon(0) Chemistry, Part 1: Parent Compounds. <i>Chemistry - A European Journal</i> , 2008, 14, 3260-3272.	1.7	384
9	Carbodiphosphoranes: The Chemistry of Divalent Carbon(0). <i>Angewandte Chemie - International Edition</i> , 2006, 45, 8038-8042.	7.2	378
10	Energy decomposition analysis. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2018, 8, e1345.	6.2	369
11	C(NHC) ₂ : Divalent Carbon(0) Compounds with N-Heterocyclic Carbene Ligands - Theoretical Evidence for a Class of Molecules with Promising Chemical Properties. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8695-8698.	7.2	361
12	N-Heterocyclic Carbene Stabilized Digermanium(0). <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9701-9704.	7.2	304
13	Orbital Overlap and Chemical Bonding. <i>Chemistry - A European Journal</i> , 2006, 12, 9196-9216.	1.7	292
14	Low Coordinate Germanium(II) and Tin(II) Hydride Complexes: Efficient Catalysts for the Hydroboration of Carbonyl Compounds. <i>Journal of the American Chemical Society</i> , 2014, 136, 3028-3031.	6.6	290
15	Divalent Carbon(0) Chemistry, Part 2: Protonation and Complexes with Main Group and Transition Metal Lewis Acids. <i>Chemistry - A European Journal</i> , 2008, 14, 3273-3289.	1.7	285
16	Isolation of crystalline carbene-stabilized P ₂ -radical cations and P ₂ -dications. <i>Nature Chemistry</i> , 2010, 2, 369-373.	6.6	282
17	A Stable Singlet Biradicaloid Siladibene: (L) ₂ Si. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2963-2967.	7.2	246
18	The Nature of the Transition Metal-Carbonyl Bond and the Question about the Valence Orbitals of Transition Metals. A Bond-Energy Decomposition Analysis of TM(CO) ₆ q (TMq= Hf ₂ -, Ta-, W, Re+, Os ₂ +), <i>J. Theor. Comput. Chem.</i> 2016, 16, 1-10.	0.0	216

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19	Dative Bonds in Main-Group Compounds: A Case for More Arrows!. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6040-6046.	7.2	235
20	Chemical Bonding and Bonding Models of Main-Group Compounds. <i>Chemical Reviews</i> , 2019, 119, 8781-8845.	23.0	232
21	New bonding modes of carbon and heavier group 14 atoms Si~Pb. <i>Chemical Society Reviews</i> , 2014, 43, 5106-5139.	18.7	227
22	Theoretical Analysis of the Bonding between CO and Positively Charged Atoms. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9551-9559.	1.1	226
23	Synthesis of a stable adduct of dialane(4) (Al ₂ H ₄) via hydrogenation of a magnesium(I) dimer. <i>Nature Chemistry</i> , 2010, 2, 865-869.	6.6	221
24	Divalent carbon(0) compounds. <i>Pure and Applied Chemistry</i> , 2009, 81, 597-614.	0.9	211
25	Helium chemistry: theoretical predictions and experimental challenge. <i>Journal of the American Chemical Society</i> , 1987, 109, 5917-5934.	6.6	207
26	Observation of alkaline earth complexes M(CO) ₈ (M = Ca, Sr, or Ba) that mimic transition metals. <i>Science</i> , 2018, 361, 912-916.	6.0	207
27	A Digermene with a Ge~Ge Single Bond That Activates Dihydrogen in the Solid State. <i>Journal of the American Chemical Society</i> , 2011, 133, 18622-18625.	6.6	202
28	Energy Analysis of Metal-Ligand Bonding in Transition Metal Complexes with Terminal Group-13 Diyl Ligands (CO) ₄ Fe-ER, Fe(EMe) ₅ and Ni(EMe) ₄ (E = B~Tl; R = Cp, N(SiH ₃) ₂ , Ph, Me) Reveals Significant π Bonding in Homoleptical Molecules. <i>Journal of the American Chemical Society</i> , 2001, 123, 1683-1693.	6.6	200
29	Unicorns in the world of chemical bonding models. <i>Journal of Computational Chemistry</i> , 2007, 28, 15-24.	1.5	198
30	The Lewis electron-pair bonding model: modern energy decomposition analysis. <i>Nature Reviews Chemistry</i> , 2019, 3, 48-63.	13.8	197
31	Structure and Bonding of the Transition-Metal Carbonyl Complexes M(CO) ₅ L (M = Cr, Mo, W) and M(CO) ₃ L (M = Ni, Pd, Pt; L = CO, SiO, CS, N ₂ , NO ⁺ , CN ⁻ , NC ⁻ , HCCH, CCH ₂ , CH ₂ , CF ₂ , H ₂). <i>Organometallics</i> , 1996, 15, 105-117.	1.1	193
32	A Crystalline Phosphinyl Radical Cation. <i>Journal of the American Chemical Society</i> , 2010, 132, 10262-10263.	6.6	185
33	First and Second Proton Affinities of Carbon Bases. <i>ChemPhysChem</i> , 2008, 9, 1474-1481.	1.0	181
34	Is This a Chemical Bond? A Theoretical Study of Ng ₂ @C ₆₀ (Ng=He, Ne, Ar, Kr). <i>TJ ETQq0 Q0 rgBT / Overlock 10</i>	1.7	179
35	Why Do the Heavy-Atom Analogues of Acetylene E ₂ H ₂ (E = Si~Pb) Exhibit Unusual Structures?. <i>Journal of the American Chemical Society</i> , 2005, 127, 6290-6299.	6.6	178
36	Dative bonding in main group compounds. <i>Coordination Chemistry Reviews</i> , 2017, 344, 163-204.	9.5	174

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37	Conversion of a Singlet Silylene to a stable Biradical. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1801-1805.	7.2	167
38	Nature of the Metal-Ligand Bond in $M(CO)_5PX_3$ Complexes ($M = Cr, Mo, W; X = H, Me, F, Cl$): Synthesis, Molecular Structure, and Quantum-Chemical Calculations. <i>Organometallics</i> , 2002, 21, 2921-2930.	1.1	162
39	An N-heterocyclic carbene adduct of diatomic tin, $:Sn\equiv Sn:$. <i>Chemical Communications</i> , 2012, 48, 9855.	2.2	162
40	Donor-acceptor bonding in novel low-coordinated compounds of boron and group-14 atoms $C\equiv Sn$. <i>Chemical Society Reviews</i> , 2016, 45, 1129-1144.	18.7	162
41	Stabilities and nature of the attractive interactions in $HeBeO$, $NeBeO$, and $ArBeO$ and a comparison with analogs $NGLiF$, $NGBN$, and $NGLiH$ ($NG = He, Ar$). A theoretical investigation. <i>Journal of the American Chemical Society</i> , 1988, 110, 8007-8016.	6.6	158
42	Nonclassical Metal Carbonyls: Appropriate Definitions with a Theoretical Justification. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2113-2116.	7.2	156
43	Understanding the nature of the bonding in transition metal complexes: from Dewar's molecular orbital model to an energy partitioning analysis of the metal-ligand bond. <i>Journal of Organometallic Chemistry</i> , 2001, 635, 9-23.	0.8	155
44	Ab initio studies of transition-metal compounds: the nature of the chemical bond to a transition metal. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 1653-1662.	1.1	154
45	Activation of H_2 by a Multiply Bonded Amido-Digermene: Evidence for the Formation of a Hydrido-Germene. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10199-10203.	7.2	154
46	A Crystalline Singlet Phosphinonitrene: A Nitrogen Atom-Transfer Agent. <i>Science</i> , 2012, 337, 1526-1528.	6.0	148
47	Energy Partitioning Analysis of the Bonding in Ethylene and Acetylene Complexes of Group 6, 8, and 11 Metals: $(CO)_5TM\eta^2-C_2H_4$ and $Cl_4TM\eta^2-C_2H_2$ ($TM = Cr, Mo, W$), $(CO)_4TM\eta^2-C_2H_2$ ($TM = Fe, Ru, Os$), and $TM\eta^2-C_2H_2$ ($TM = Cu, Ag, Au$). <i>Journal of Physical Chemistry A</i> , 2004, 108, 3134-3142.	1.1	146
48	Structure and Bonding of Low-Valent (Fischer-Type) and High-Valent (Schrock-Type) Transition Metal Carbene Complexes. <i>Chemistry - A European Journal</i> , 1998, 4, 1428-1438.	1.7	142
49	Divalent E(0) Compounds ($E=Si\equiv Sn$). <i>Chemistry - A European Journal</i> , 2009, 15, 8593-8604.	1.7	141
50	Divalent Silicon(0) Compounds. <i>Chemistry - A European Journal</i> , 2009, 15, 3448-3456.	1.7	140
51	Preparation, Characterization, and Theoretical Analysis of Group 14 Element(I) Dimers: A Case Study of Magnesium(I) Compounds as Reducing Agents in Inorganic Synthesis. <i>Inorganic Chemistry</i> , 2011, 50, 12315-12325.	1.9	139
52	Energy decomposition analysis of the chemical bond in main group and transition metal compounds. <i>Faraday Discussions</i> , 2003, 124, 365-378.	1.6	138
53	The Nature of the Chemical Bond Revisited: An Energy-Partitioning Analysis of Nonpolar Bonds. <i>Chemistry - A European Journal</i> , 2005, 11, 1813-1825.	1.7	137
54	Nature of the Chemical Bond between a Transition Metal and a Group-13 Element: Structure and Bonding of Transition Metal Complexes with Terminal Group-13 Diyl Ligands ER ($E = B \text{ to } Tl; R = Cp$), <i>Tj ETQq0 0 0 rgBT /Overlook 10 Tf 5</i>		

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55	Carbodicarbenes and Related Divalent Carbon(0) Compounds. <i>Chemistry - A European Journal</i> , 2010, 16, 10160-10170.	1.7	135
56	The nature of the chemical bond revisited. An energy partitioning analysis of diatomic molecules E ₂ (E=Nâ€“Bi, Fâ€“I), CO and BF. <i>Theoretical Chemistry Accounts</i> , 2004, 111, 381-389.	0.5	134
57	Structures and Stabilities of Group 13 Adducts [(NHC)(EX ₃)] and [(NHC) ₂ (EX ₂ X _n)] (E=B to In; X=H, Cl; n=4, 2, 0); <i>Chemistry - A European Journal</i> , 2011, 17, 13517-13525.	1.7	133
58	Borylene Complexes (BH) ₂ and Nitrogen Cation Complexes (N ⁺) ₂ : Isoelectronic Homologues of Carbones CL ₂ . <i>Chemistry - A European Journal</i> , 2012, 18, 5676-5692.	1.7	131
59	Dinitrogen complexation and reduction at low-valent calcium. <i>Science</i> , 2021, 371, 1125-1128.	6.0	131
60	Structure and Bonding of the Isoelectronic Hexacarbonyls [Hf(CO) ₆] ²⁻ , [Ta(CO) ₆] ⁻ , W(CO) ₆ , [Re(CO) ₆] ⁺ , [Os(CO) ₆] ²⁺ , and [Ir(CO) ₆] ³⁺ : A Theoretical Study. <i>Organometallics</i> , 1997, 16, 4807-4815.	1.1	128
61	Structures, Bond Energies, Heats of Formation, and Quantitative Bonding Analysis of Main-Group Metallocenes [E(Cp) ₂] (E=Beâ€“Ba, Zn, Siâ€“Pb) and [E(Cp)] (E=Liâ€“Cs, Bâ€“Tl). <i>Chemistry - A European Journal</i> , 2002, 8, 4693-4707.	1.7	128
62	Trends in Molecular Geometries and Bond Strengths of the Homoleptic d ¹⁰ Metal Carbonyl Cations [M(CO) _n] ^{x+} (Mx+=Cu+, Ag+, Au+, Zn ²⁺ , Cd ²⁺ , Hg ²⁺ ; n=1-6): A Theoretical Study. <i>Chemistry - A European Journal</i> , 1999, 5, 2573-2583.	1.7	123
63	Synthesis and Ligand Properties of a Persistent, All-Carbon Four-Membered Ring Allene. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4792-4795.	7.2	122
64	Chemical bonding in mononuclear transition metal complexes with Group 13 diyl ligands ER (E=B, Tl) Part X: Theoretical studies of inorganic compounds. <i>Coordination Chemistry Reviews</i> , 2000, 197, 249-276.	9.5	121
65	Transition Metal-Carbon Complexes. A Theoretical Study. <i>Journal of the American Chemical Society</i> , 2007, 129, 7596-7610.	6.6	119
66	Exocyclic Delocalization at the Expense of Aromaticity in 3,5-bis(Î€-Donor) Substituted Pyrazolium Ions and Corresponding Cyclic Bent Allenes. <i>Journal of the American Chemical Society</i> , 2009, 131, 11875-11881.	6.6	119
67	Isolation of Neutral Mono- and Dinuclear Gold Complexes of Cyclic (Alkyl)(amino)carbenes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8964-8967.	7.2	119
68	Bis(benzene)chromium Is a Î€-Bonded Molecule and Ferrocene Is a Î€-Bonded Molecule. <i>Organometallics</i> , 2003, 22, 3304-3308.	1.1	116
69	Experimental Charge Density Study of a Silylone. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2766-2770.	7.2	115
70	Electronic structure of CO: An exercise in modern chemical bonding theory. <i>Journal of Computational Chemistry</i> , 2007, 28, 117-126.	1.5	114
71	Nine questions on energy decomposition analysis. <i>Journal of Computational Chemistry</i> , 2019, 40, 2248-2283.	1.5	113
72	Tolman's Electronic Parameters for Divalent Carbon(0) Compounds. <i>Organometallics</i> , 2009, 28, 3901-3905.	1.1	109

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73	N-Heterocyclic carbenes versus transition metals for stabilizing phosphinyl radicals. <i>Chemical Science</i> , 2011, 2, 858.	3.7	108
74	Formation and Characterization of the Boron Dicarbonyl Complex $[B(CO)_2]^\wedge$. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11078-11083.	7.2	107
75	The Structure of the Carbene Stabilized Si_2H_2 May Be Equally Well Described with Coordinate Bonds as with Classical Double Bonds. <i>Journal of the American Chemical Society</i> , 2016, 138, 10429-10432.	6.6	105
76	Light noble gas chemistry: structures, stabilities, and bonding of helium, neon, and argon compounds. <i>Journal of the American Chemical Society</i> , 1990, 112, 4240-4256.	6.6	103
77	Beryllium chemistry the safe way: a theoretical evaluation of low oxidation state beryllium compounds. <i>Dalton Transactions</i> , 2013, 42, 11375.	1.6	102
78	Stabilization of Heterodiatomic SiC Through Ligand Donation: Theoretical Investigation of $SiC(L)_2$ ($L=NHC^Me$, $CAAC^Me$, PMe_3). <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12319-12324.	7.2	102
79	$(L)_2C_2P_2$: Dicarbonyldiphosphide Stabilized by \wedge Heterocyclic Carbenes or Cyclic Diamido Carbenes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5744-5749.	7.2	102
80	The Facile Reduction of Carbon Dioxide to Carbon Monoxide with an Amido \wedge Digermyne. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8611-8614.	7.2	101
81	Structure and Bonding of Low-Valent (Fischer-Type) and High-Valent (Schrock-Type) Transition Metal Carbyne Complexes. <i>Chemistry - A European Journal</i> , 1998, 4, 1439-1448.	1.7	100
82	Pseudopotential Calculations of Transition Metal Compounds: Scope and Limitations. <i>Reviews in Computational Chemistry</i> , 2007, , 63-144.	1.5	100
83	Helium bonding in singly and doubly charged first-row diatomic cations HeX_n^+ ($X = Li-Ne$; $n = 1, 2$). <i>The Journal of Physical Chemistry</i> , 1989, 93, 3397-3410.	2.9	99
84	Synthesis and Structure of $[Ni\{Ga^C(SiMe_3)_3\}_4]$ and Quantum-Chemical Verification of Strong \wedge Back-Bonding in the Model Compounds $[Ni(EMe)_4]$ ($E = B, Al, Ga, In, Tl$). <i>Organometallics</i> , 1999, 18, 3778-3780.	1.1	99
85	Nonclassical Metal Carbonyls. <i>Progress in Inorganic Chemistry</i> , 2007, , 1-112.	3.0	94
86	Reductive elimination: a pathway to low-valent aluminium species. <i>Chemical Communications</i> , 2013, 49, 2858.	2.2	94
87	Reaction of Carbodiphosphorane Ph_3PCPPH_3 with $Ni(CO)_4$. Experimental and Theoretical Study of the Structures and Properties of $(CO)_3NiC(PPh_3)_2$ and $(CO)_2NiC(PPh_3)_2$. <i>Organometallics</i> , 1999, 18, 619-626.	1.1	93
88	The Bonding Situation in Metalated Ylides. <i>Chemistry - A European Journal</i> , 2017, 23, 4422-4434.	1.7	92
89	Theoretical Studies of Organometallic Compounds. XIV. Structure and Bonding of the Transition Metal Methyl and Phenyl Compounds MCH_3 and MC_6H_5 ($M = Cu, Ag, Au$) and $M(CH_3)_2$ and $M(C_6H_5)_2$ ($M =$) <i>J. ETQq 1 1 0.784314 rgB</i>	1.1	89
90	Energy Partitioning Analysis of the Bonding in $L_2TM^C_2H_2$ and $L_2TM^C_2H_4$ ($TM = Ni, Pd, Pt$; $L_2 = (PH_3)_2$.) <i>J. ETQq 0 0 rgBTJ/Overlock</i>	1.1	89

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91	Carbodiphosphoranes and Related Ligands. Topics in Organometallic Chemistry, 2010, , 49-92.	0.7	89
92	Theoretical Studies of Organometallic Compounds. XIX. Complexes of Transition Metals in High and Low Oxidation States with Side-On-Bonded π -Ligands. Organometallics, 1995, 14, 5325-5336.	1.1	88
93	Carbodiphosphorane $C(PPh_3)_2$ as a Single and Twofold Lewis Base with Boranes: Synthesis, Crystal Structures and Theoretical Studies on $[H_3B\{C(PPh_3)_2\}]$ and $[(1/4\text{H})H_4B_2\{C(PPh_3)_2\}]^+ \cdot$. European Journal of Inorganic Chemistry, 2009, 2009, 4507-4517.	1.0	88
94	Theoretical studies of organometallic compounds. 6. Structures and bond energies of $M(CO)_n^+$, MCN , and $M(CN)_2^-$ ($M = \text{silver, gold; } n = 1-3$). Organometallics, 1993, 12, 4613-4622.	1.1	85
95	Carbones as Ligands in Novel Main-Group Compounds $E[C(NHC)_2]_2$ ($E = \text{Be, } Tj$). <i>ETQq1</i> 1 0.784314 rgBT /Ov	1.7	85
96	$[(\eta^5\text{-Cp}^*)Al\text{Et}_2\text{Fe}(\text{CO})_4]$ Synthese, Struktur, Bindungsverhältnisse. Angewandte Chemie, 1997, 109, 95-97.	1.6	84
97	Distinguishing Carbones from Allenes by Complexation to AuCl. Chemistry - A European Journal, 2011, 17, 9944-9956.	1.7	84
98	Coinage Metals Binding as Main Group Elements: Structure and Bonding of the Carbene Complexes $[TM(cAAC)_2]^+$ and $[TM(cAAC)_2]$ ($TM = \text{Cu, Ag, Au}$). Journal of the American Chemical Society, 2014, 136, 17123-17135.	6.6	84
99	A Boron-Boron Triple Bond. Science, 2012, 336, 1394-1395.	6.0	83
100	Transition-Metal Chemistry of Alkaline-Earth Elements: The Trisbenzene Complexes $M(\text{Bz})_3$ ($M = \text{Sr, Ba}$). Angewandte Chemie - International Edition, 2019, 58, 17365-17374.	7.2	82
101	A Stable, Crystalline Beryllium Radical Cation. Journal of the American Chemical Society, 2020, 142, 4560-4564.	6.6	80
102	Octa-coordinated alkaline earth metal dinitrogen complexes $M(\text{N}_2)_8$ ($M = \text{Ca, Sr, Ba}$). Nature Communications, 2019, 10, 3375.	5.8	79
103	Donor-Acceptor Complexes of Noble Gases. Journal of the American Chemical Society, 2009, 131, 3942-3949.	6.6	78
104	No Need for a Re-examination of the Electrostatic Notation of the Hydrogen Bonding: A Comment. Angewandte Chemie - International Edition, 2015, 54, 2596-2599.	7.2	78
105	Dinitrogen as Double Lewis Acid: Structure and Bonding of Triphenylphosphinazine $N_2(PPh_3)_2$. Angewandte Chemie - International Edition, 2013, 52, 3004-3008.	7.2	76
106	The Chemical Bond in C_2 . Chemistry - A European Journal, 2016, 22, 4100-4108.	1.7	75
107	Dative and electron-sharing bonding in transition metal compounds. Journal of Computational Chemistry, 2019, 40, 247-264.	1.5	74
108	One-Electron-Mediated Rearrangements of 2,3-Disiladibene. Journal of the American Chemical Society, 2014, 136, 8919-8922.	6.6	73

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109	The boronâ€“boron triple bond in NHCâ†’Bâ†’NHC. <i>Chemical Science</i> , 2015, 6, 4089-4094.	3.7	73
110	Dative and Electronâ€“Sharing Bonding in C ₂ F ₄ . <i>Chemistry - A European Journal</i> , 2018, 24, 9083-9089.	1.7	73
111	The Îƒâ€“Aromatic Clusters [Zn ₃] ⁺ and [Zn ₂ Cu]: Embryonic Brass. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4370-4374.	7.2	72
112	Carbon Monoxide Bonding With BeO and BeCO ₃ : Surprisingly High CO Stretching Frequency of OCBeco ₃ . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 124-128.	7.2	70
113	Persistent Borafluorene Radicals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3850-3854.	7.2	70
114	Molecules with All Triple Bonds: OCBBCO, N ₂ BBN ₂ , and [OB ₅] ²⁺ . <i>Journal of Physical Chemistry A</i> , 2009, 113, 11693-11698.	1.1	69
115	Transitionâ€“Metal Complexes of Tetrylones [(CO) ₅ Wâ€“E(PPh ₃) ₂] and Tetrylenes [(CO) ₅ Wâ€“NHE] (E=Câ€“Pb): A Theoretical Study. <i>Chemistry - A European Journal</i> , 2012, 18, 12733-12748.	1.7	69
116	End-On and Side-On Îƒ-Acid Ligand Adducts of Gold(I): Carbonyl, Cyanide, Isocyanide, and Cyclooctyne Gold(I) Complexes Supported by N-Heterocyclic Carbenes and Phosphines. <i>Inorganic Chemistry</i> , 2013, 52, 729-742.	1.9	69
117	Two-coordinate group 14 element(<i>ii</i>) hydrides as reagents for the facile, and sometimes reversible, hydrogermylation/hydrostannylation of unactivated alkenes and alkynes. <i>Chemical Science</i> , 2015, 6, 7249-7257.	3.7	69
118	Aromaticity, the Hückel 4 <i>n</i> +2 Rule and Magnetic Current. <i>ChemistrySelect</i> , 2017, 2, 863-870.	0.7	66
119	Molecular Alloys, Linking Organometallics with Intermetallic Humeâˆ“Rothery Phases: The Highly Coordinated Transition Metal Compounds [M(ZnR) _n] (<i>n</i> = 8) Containing Organoâˆ“Zinc Ligands. <i>Journal of the American Chemical Society</i> , 2009, 131, 16063-16077.	6.6	65
120	Carbodicarbenesâ€“divalent carbon(0) compounds exhibiting carbonâ€“carbon donorâ€“acceptor bonds. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2011, 1, 869-878.	6.2	65
121	NHCâ€“Stabilised Acetyleneâ€“How Far Can the Analogy Be Pushed?. <i>Chemistry - A European Journal</i> , 2017, 23, 2926-2934.	1.7	65
122	The bonding of acetylene and ethylene in high-valent and low-valent transition metal compounds. <i>Journal of Organometallic Chemistry</i> , 1996, 525, 269-278.	0.8	64
123	The [B ₃ (NN) ₃] ⁺ and [B ₃ (CO) ₃] ⁺ Complexes Featuring the Smallest Îƒâ€“Aromatic Species B ₃ ⁺ . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2078-2082.	7.2	64
124	Double dative bond between divalent carbon(0) and uranium. <i>Nature Communications</i> , 2018, 9, 4997.	5.8	63
125	The nature of the chemical bond in the light of an energy decomposition analysis. , 2005, , 291-372.		62
126	Experimental and Theoretical Studies of the Infrared Spectra and Bonding Properties of NgBeCO ₃ and a Comparison with NgBeO (Ng = He, Ne, Ar, Kr, Xe). <i>Journal of Physical Chemistry A</i> , 2015, 119, 2543-2552.	1.1	62

#	ARTICLE	IF	CITATIONS
127	Alkali Metal Covalent Bonding in Nickel Carbonyl Complexes $\text{ENi}(\text{CO})_3^+$. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1732-1738.	7.2	62
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129	Reactivity of Amido-Digermynes, LGeGeL (L = Bulky Amide), toward Olefins and Related Molecules: Facile Reduction, C^{H} Activation, and Reversible Cycloaddition of Unsaturated Substrates. <i>Organometallics</i> , 2015, 34, 3175-3185.	1.1	60
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131	Barium as Honorary Transition Metal in Action: Experimental and Theoretical Study of $\text{Ba}(\text{CO})^+$ and $\text{Ba}(\text{CO})^+$. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3974-3980.	7.2	60
132	Tris(alkyne) and Bis(alkyne) Complexes of Coinage Metals: Synthesis and Characterization of (cyclooctyne) $_3\text{M}^+$ (M = Cu, Ag) and (cyclooctyne) $_2\text{Au}^+$ and Coinage Metal (M = Cu, Ag, Au) Family Group Trends. <i>Organometallics</i> , 2013, 32, 3135-3144.	1.1	59
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136	A Stable Neutral Radical in the Coordination Sphere of Aluminum. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 397-400.	7.2	56
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138	(L) $_2\text{C}_2\text{P}_2$: Dicarbondiphosphide Stabilized by N -Heterocyclic Carbenes or Cyclic Diamido Carbenes. <i>Angewandte Chemie</i> , 2017, 129, 5838-5843.	1.6	55
139	A Triatomic Silicon(0) Cluster Stabilized by a Cyclic Alkyl(amino) Carbene. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3158-3161.	7.2	54
140	An Electrophilic Carbene-Anchored Silylene-Phosphinidene. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4219-4223.	7.2	54
141	Response to Comment on "Observation of alkaline earth complexes $\text{M}(\text{CO})_8$ (M = Ca, Sr)" TiEtOq_1 6.0 0.784314 54	6.0	54
142	Critical Comments on "One Molecule, Two Atoms, Three Views, Four Bonds?" <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5922-5925.	7.2	53
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144	Alkali Metal Covalent Bonding in Nickel Carbonyl Complexes $\text{ENi}(\text{CO})_3^+$. <i>Angewandte Chemie</i> , 2019, 131, 1746-1752.	1.6	53

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147	Bonding in Binuclear Carbonyl Complexes $M_2(CO)_9$ (M = Fe, Ru, Os). <i>Inorganic Chemistry</i> , 2018, 57, 7780-7791.	1.9	50
148	Isolable Tris(alkyne) and Bis(alkyne) Complexes of Gold(I). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3940-3943.	7.2	49
149	Formation of a 1,4-Diamino-2,3-disila-1,3-butadiene Derivative. <i>Journal of the American Chemical Society</i> , 2013, 135, 15990-15993.	6.6	49
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