

Oxidative Addition and Reductive Elimination at Main-

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Engineering the Frontier Orbitals of a Diazadiborinine for Facile Activation of H ₂ , NH ₃ , and an Isonitrile. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7846-7849.	7.2	32
2	Cyclometallation of a germylene ligand by concerted metalation-deprotonation of a methyl group. <i>Dalton Transactions</i> , 2018, 47, 15835-15844.	1.6	13
3	Imino-stabilised phosphinidene (or azaphosphole?) and some of its derivatives. <i>Dalton Transactions</i> , 2018, 47, 17011-17019.	1.6	25
4	Activation of Small Molecules (H ₂ , CO ₂ , N ₂ O, CH ₄), Tj ETQq1 1 0.784314 rgBT / Omega, 2018, 3, 17199-17211.	1.6	13
5	Multigram Syntheses of Magnesium(I) Compounds Using Alkali Metal Halide Supported Alkali Metals as Dispersible Reducing Agents. <i>Organometallics</i> , 2018, 37, 4810-4813.	1.1	85
6	Stepwise versus Concerted Reductive Elimination Mechanisms in the Carbon-Iodide Bond Formation of (DPEphos)RhMeI ₂ Complex. <i>Organometallics</i> , 2018, 37, 4711-4719.	1.1	7
7	Facile Activation of Homoatomic I _f Bonds in White Phosphorus and Diborane by a Diboraallene. <i>Angewandte Chemie</i> , 2018, 130, 15917-15921.	1.6	12
8	Facile Activation of Homoatomic I _f Bonds in White Phosphorus and Diborane by a Diboraallene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15691-15695.	7.2	30
9	Activation of dihydrogen by 1,4,2,5-diazadiborinine. <i>Tetrahedron</i> , 2018, 74, 7273-7276.	1.0	11
10	Base-induced reversible H ₂ addition to a single Sn(II) centre. <i>Chemical Science</i> , 2018, 9, 8716-8722.	3.7	19
11	Engineering the Frontier Orbitals of a Diazadiborinine for Facile Activation of H ₂ , NH ₃ , and an Isonitrile. <i>Angewandte Chemie</i> , 2018, 130, 7972-7975.	1.6	13
12	Silanylidene and Germanylidene Anions: Valence-Isoelectronic Species to the Well-Studied Phosphinidene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11776-11780.	7.2	24
13	Reversible 1,1-hydroaluminations and C-H activation in reactions of a cyclic (alkyl)(amino) carbene with alane. <i>Chemical Communications</i> , 2018, 54, 8407-8410.	2.2	13
14	The Road Travelled: After Main-Group Elements as Transition Metals. <i>ChemCatChem</i> , 2018, 10, 4213-4228.	1.8	355
15	Comprehensive Study on Reactions of Group 13 Diyls with Tetraorganodipentelanes. <i>Inorganic Chemistry</i> , 2018, 57, 9495-9503.	1.9	18
16	Silanylidene and Germanylidene Anions: Valence-Isoelectronic Species to the Well-Studied Phosphinidene. <i>Angewandte Chemie</i> , 2018, 130, 11950-11954.	1.6	7
17	Neutral, Cationic and Hydride-Substituted Siloxygermylenes. <i>Chemistry - A European Journal</i> , 2018, 24, 14392-14399.	1.7	44
18	Cycloaddition versus Cleavage of the C=S Bond of Isothiocyanates Promoted by Digallane Compounds with Noninnocent Imino Ligands. <i>Chemistry - A European Journal</i> , 2018, 24, 14994-15002.	1.7	39

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19	<i>Normal</i> and <i>abnormal</i> NHC coordination in cationic hydride iodide complexes of aluminium. Dalton Transactions, 2018, 47, 10281-10287.	1.6	15
20	Ein anionisches Aluminiumâ€Nukleophil. Angewandte Chemie, 2018, 130, 8954-8956.	1.6	3
21	Synthesis, characterization, and catalytic performance of Aluminum and Tin Compounds with \hat{I}^2 -diketiminato ligand. Journal of Organometallic Chemistry, 2018, 868, 55-60.	0.8	17
22	2,5-Digermaselenophenes: Germanium Analogues of Selenophenes. Journal of the American Chemical Society, 2018, 140, 11206-11209.	6.6	22
23	An Anionic Aluminium Nucleophile. Angewandte Chemie - International Edition, 2018, 57, 8818-8820.	7.2	9
24	Carbeneâ€Stabilized Exceptional Silicon Halides. Chemistry - A European Journal, 2019, 25, 1636-1648.	1.7	18
25	$HAICl_2$ and H_2AlCl as Precursors for the Preparation of Compounds with Four- and Five-Coordinate Aluminum. Inorganic Chemistry, 2019, 58, 10625-10628.	1.9	8
26	Metal-Free Selective Borylation of Arenes by a Diazadiborinine via Câ€H/Câ€F Bond Activation and Dearomatization. Journal of the American Chemical Society, 2019, 141, 13729-13733.	6.6	31
27	Alkylaluminum Complexes as Precatalysts in Hydroboration of Nitriles and Carbodiimides. Organometallics, 2019, 38, 3092-3097.	1.1	56
28	Mechanistic Features in Al(I)-Mediated Oxidative Addition of Aryl Câ€F Bonds: Insights From Density Functional Theory Calculations. Frontiers in Chemistry, 2019, 7, 596.	1.8	11
29	Reaction of an arsinoamide with chloro tetrylenes: substitution and Asâ€N bond insertion. Chemical Communications, 2019, 55, 9315-9318.	2.2	14
30	Reactivity of a Sterically Unencumbered \hat{I}^2 -Borylated Phosphorus Ylide towards Small Molecules. Chemistry - A European Journal, 2019, 25, 12206-12213.	1.7	11
31	Reversible C=C Bond Activation by an Intramolecularly Coordinated Antimony(I) Compound. Chemistry - A European Journal, 2019, 25, 12884-12888.	1.7	26
32	Tetrylenes based on tri- and tetradentate ONO-, NNO-, NNN-, and ONNO-type ligands: synthesis, structure, and reactivity. Russian Chemical Bulletin, 2019, 68, 1129-1142.	0.4	22
33	Exploring the reactivity of carbene supported diboraanthracene towards dihydrogen activation. Polyhedron, 2019, 170, 666-673.	1.0	0
34	Diagonally Related sâ€ and pâ€ Block Metals Join Forces: Synthesis and Characterization of Complexes with Covalent Berylliumâ€Aluminum Bonds. Angewandte Chemie, 2019, 131, 11581-11585.	1.6	18
35	Calciumâ€Catalyzed Arene Câ€H Bond Activation by Lowâ€Valent Al ^I . Angewandte Chemie - International Edition, 2019, 58, 15496-15503.	7.2	68
36	A Cyclic (Alkyl)(boryl)germylene Derived from a Cyclic (Alkyl)(amino)germylene. Angewandte Chemie - International Edition, 2019, 58, 18150-18153.	7.2	13

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37	Characterization and Photophysical Properties of a Luminescent Aluminum Hydride Complex Supported by a β -Diketiminato Ligand. <i>Inorganics</i> , 2019, 7, 100.	1.2	19
38	Calcium-Catalyzed Arene C-H Bond Activation by Low-Valent Al. <i>Angewandte Chemie</i> , 2019, 131, 15642-15649.	1.6	28
39	Sequential Oxidation and C-H Bond Activation at a Gallium(I) Center. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18102-18107.	7.2	21
40	Boron-based stepwise dioxygen activation with 1,4,2,5-diazadiborinine. <i>Chemical Science</i> , 2019, 10, 2088-2092.	3.7	23
41	Sequential Oxidation and C-H Bond Activation at a Gallium(I) Center. <i>Angewandte Chemie</i> , 2019, 131, 18270-18275.	1.6	6
42	A Cyclic (Alkyl)(boryl)germylene Derived from a Cyclic (Alkyl)(amino)germylene. <i>Angewandte Chemie</i> , 2019, 131, 18318-18321.	1.6	6
43	Dinuclear Aluminum Halide Complexes Based on Bis(β -diketiminato) Ligands: Synthesis, Structures, and Electrochemical Characterization. <i>Inorganic Chemistry</i> , 2019, 58, 16302-16311.	1.9	13
44	Convenient Access to Gallium(I) Cations through Hydrogen Elimination from Cationic Gallium(III) Hydrides. <i>Inorganic Chemistry</i> , 2019, 58, 12441-12445.	1.9	26
45	Synthesis of organoaluminum chalcogenides and their applications in Lewis acid catalysis. <i>Inorganica Chimica Acta</i> , 2019, 497, 119091.	1.2	8
46	N-Heterocyclic Carbene-Stabilized Germanium and Tin Analogues of Heavier Nitriles: Synthesis, Reactivity, and Catalytic Application. <i>Journal of the American Chemical Society</i> , 2019, 141, 14576-14580.	6.6	60
47	Insertion of germynes into Ge-X bonds giving molecular oligogermenes: theory and practice. <i>Monatshefte für Chemie</i> , 2019, 150, 1773-1778.	0.9	5
48	Phosphaaluminirenes: Synthons for Main Group Heterocycles. <i>Journal of the American Chemical Society</i> , 2019, 141, 16971-16982.	6.6	30
49	Reduction of organic azides by indyl-anions. Isolation and reactivity studies of indium-nitrogen multiple bonds. <i>Chemical Science</i> , 2019, 10, 1212-1218.	3.7	41
50	Reversible alkene binding and allylic C-H activation with an aluminium complex. <i>Chemical Science</i> , 2019, 10, 2452-2458.	3.7	71
51	A Theoretical Study on the Mechanism of the Oxidative Deborylation/C-C Coupling Reaction of Borepin Derivatives. <i>Journal of Organic Chemistry</i> , 2019, 84, 1941-1950.	1.7	8
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53	Acyclic 1,2-dimagnesioethanes/ethene derived from magnesium compounds: multipurpose reagents for organometallic synthesis. <i>Chemical Science</i> , 2019, 10, 3208-3216.	3.7	32
54	A vinyl silylsilylene and its activation of strong homo- and heteroatomic bonds. <i>Chemical Science</i> , 2019, 10, 6476-6481.	3.7	52

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55	Diagonally Related σ - and π -Block Metals Join Forces: Synthesis and Characterization of Complexes with Covalent Beryllium-Aluminum Bonds. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11459-11463.	7.2	54
56	Reductive Elimination at Carbon under Steric Control. <i>Journal of the American Chemical Society</i> , 2019, 141, 9823-9826.	6.6	41
57	Interaction of Multiple Bonds with NacNacGa: Oxidative Cleavage vs Coupling and Cyclization. <i>Inorganic Chemistry</i> , 2019, 58, 8665-8672.	1.9	21
58	Hydrolysis of NHC stabilized zinc diaryloxide [(NHC)Zn(OAr) ₂]: Impact of stoichiometric quantity of water and base. <i>Journal of Organometallic Chemistry</i> , 2019, 893, 78-84.	0.8	2
59	CO ₂ Fixation and Catalytic Reduction by a Neutral Aluminum Double Bond. <i>Angewandte Chemie</i> , 2019, 131, 11077-11081.	1.6	25
60	CO ₂ Fixation and Catalytic Reduction by a Neutral Aluminum Double Bond. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10961-10965.	7.2	75
61	Dual Activation of Aromatic Diels-Alder Reactions. <i>Chemistry - A European Journal</i> , 2019, 25, 9902-9912.	1.7	16
62	Establishing the correlation between catalytic performance and N ⁺ Sb donor-acceptor interaction: systematic assessment of azastibocine halide derivatives as water tolerant Lewis acids. <i>Dalton Transactions</i> , 2019, 48, 8478-8487.	1.6	23
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64	Synthesis and Reactivity of a Hypersilylsilylene. <i>Inorganic Chemistry</i> , 2019, 58, 10536-10542.	1.9	30
65	Halogen and Sulfur Oxidation of Germanium and Tin Dications. <i>Inorganic Chemistry</i> , 2019, 58, 6238-6245.	1.9	9
66	Oxidative addition of elemental selenium to 1,4,2,5-diazadiborinine. <i>Dalton Transactions</i> , 2019, 48, 7514-7518.	1.6	7
67	Reversible insertion of CO into an aluminium-carbon bond. <i>Chemical Communications</i> , 2019, 55, 6181-6184.	2.2	20
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69	Gallium Shears for C=N and C=O Bonds of Isocyanates. <i>Chemistry - A European Journal</i> , 2019, 25, 8259-8267.	1.7	33
70	Reversible Binding of Ethylene and Propylene by Germylenes. <i>Organometallics</i> , 2019, 38, 1425-1428.	1.1	15
71	Dual Role of Doubly Reduced Arylboranes as Dihydrogen- and Hydride-Transfer Catalysts. <i>Journal of the American Chemical Society</i> , 2019, 141, 6082-6091.	6.6	47
72	Aluminum Complexes with Redox-Active Formazanate Ligand: Synthesis, Characterization, and Reduction Chemistry. <i>Inorganic Chemistry</i> , 2019, 58, 6344-6355.	1.9	21

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73	Small molecule activation by boron-containing heterocycles. <i>Chemical Society Reviews</i> , 2019, 48, 3613-3659.	18.7	94
74	Aromaticity-promoted C-F Bond Activation in Rhodium Complex: A Facile Tautomerization. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1937-1940.	1.7	20
75	Ge(II) cation catalyzed hydroboration of aldehydes and ketones. <i>Dalton Transactions</i> , 2019, 48, 4094-4100.	1.6	30
76	Germlyone-bridged bimetallic Ir and Rh complexes. <i>Dalton Transactions</i> , 2019, 48, 3555-3559.	1.6	9
77	Bi(I)-Catalyzed Transfer-Hydrogenation with Ammonia-Borane. <i>Journal of the American Chemical Society</i> , 2019, 141, 4235-4240.	6.6	134
78	A Tautomeric $\lambda^3\lambda^5$ -Phosphane Pair and Its Ambiphilic Reactivity. <i>Inorganic Chemistry</i> , 2019, 58, 3502-3508.	1.9	7
79	N-Heterocyclic Carbene Non-Innocence in the Catalytic Hydrophosphination of Alkynes. <i>ChemCatChem</i> , 2019, 11, 1893-1897.	1.8	10
80	A Mixed-Anion System Consisting of a Germyl Anion and Anions Delocalized on Conjugated Carbon Ring Skeletons. <i>Chemistry - A European Journal</i> , 2019, 25, 6284-6289.	1.7	11
81	Redox chemistry of π -extended tellurophenes. <i>Communications Chemistry</i> , 2019, 2, .	2.0	12
82	Facile oxidative addition of O_2 and S_8 by an indium bis(carbene) analogue. <i>Dalton Transactions</i> , 2019, 48, 17718-17722.	1.6	14
83	Beryllium Halide Complexes Incorporating Neutral or Anionic Ligands: Potential Precursors for Beryllium Chemistry. <i>Chemistry - an Asian Journal</i> , 2019, 14, 486-490.	1.7	37
84	Borane-Catalyzed Cross-Metathesis Strategy for Facile Transformation of Cyclic (Alkyl)(Amino)Germlyenes. <i>Angewandte Chemie</i> , 2019, 131, 237-241.	1.6	6
85	Borane-Catalyzed Cross-Metathesis Strategy for Facile Transformation of Cyclic (Alkyl)(Amino)Germlyenes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 231-235.	7.2	17
86	Synthesis and Reactivity Studies of Amido-Substituted Germanium(II)/Tin(II) Dimers and Clusters. <i>Chemistry - A European Journal</i> , 2019, 25, 2773-2785.	1.7	46
87	Linking Low-Coordinate Ge(II) Centers via Bridging Anionic N-Heterocyclic Olefin Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 1592-1601.	1.9	15
88	Adduct of $NacNacAl$ with Benzophenone and Its Coupling Chemistry. <i>Chemistry - A European Journal</i> , 2020, 26, 206-211.	1.7	20
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90	The unique β^2 -diketiminato ligand in aluminum(III) and gallium(III) chemistry. <i>Dalton Transactions</i> , 2020, 49, 1351-1364.	1.6	102

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91	Transition-Metal-Like Catalysis with a Main-Group Element: Bismuth-Catalyzed C-F Coupling of Aryl Boronic Esters. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8328-8330.	7.2	15
92	Synthesis and structures of mono- and di-nuclear aluminium and zinc complexes bearing λ^2 -diimine and related ligands, and their use in the ring opening polymerization of cyclic esters. <i>Dalton Transactions</i> , 2020, 49, 1456-1472.	1.6	15
93	Cycloaddition of Dialkylaluminum Anion toward Unsaturated Hydrocarbons in (1+2) and (1+4) Modes. <i>Chemistry - A European Journal</i> , 2020, 26, 2174-2177.	1.7	39
94	Synthesis, Structure, and Reactivity of a Thermally Stable Dialkylgermylene. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 249-251.	2.0	7
95	1,2-(Benz)Azaphospholes: A Slow Beginning to a Bright Future. <i>Comments on Inorganic Chemistry</i> , 2020, 40, 25-51.	3.0	3
96	Synthesis, characterization and redox properties of Ar-C=N-Ge-N=C-Ar containing system. <i>Mendeleev Communications</i> , 2020, 30, 563-566.	0.6	7
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98	H ₂ evolution from H ₂ O via O-H oxidative addition across a 9,10-diboraanthracene. <i>Chemical Communications</i> , 2020, 56, 13804-13807.	2.2	9
99	Realizing Metal-Free Carbene-Catalyzed Carbonylation Reactions with CO. <i>Journal of the American Chemical Society</i> , 2020, 142, 18336-18340.	6.6	29
100	Reactivity of O,N-heterocyclic germylene and stannylene towards $\frac{1}{4}$ -dithio-bis(tricarbonyliron). <i>Journal of Organometallic Chemistry</i> , 2020, 927, 121524.	0.8	15
101	Isolable Dibenzo[<i>a,e</i>]disilapentalene with a Dichotomic Reactivity toward CO ₂ . <i>Journal of the American Chemical Society</i> , 2020, 142, 16935-16941.	6.6	13
102	Palladium-catalysed C-F aluminination of fluorobenzenes: mechanistic diversity and origin of selectivity. <i>Chemical Science</i> , 2020, 11, 7842-7849.	3.7	19
103	New Hydrazide based Tricyclic Pentacoordinate Siliconium Ions - A Facile Route to the Synthesis of Spherical Shaped Sr ₅ (PO ₄) ₂ SiO ₄ . <i>Applied Organometallic Chemistry</i> , 2020, 34, e5909.	1.7	2
104	Stepwise Bi-Bi Bond Formation: From a Bi-centered Radical to Bi ₄ Butterfly and Bi ₈ Cuneane-Type Clusters. <i>Inorganic Chemistry</i> , 2020, 59, 11142-11151.	1.9	39
105	Photo-promoted Skeletal Rearrangement of Phosphine-Borane Frustrated Lewis Pairs Involving Cleavage of Unstrained C-C σ -Bonds. <i>Angewandte Chemie</i> , 2020, 132, 12011-12015.	1.6	0
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107	N-Heterocyclic Carbene-Mediated Ring Opening of Reduced Diazamagnesacycles. <i>Organometallics</i> , 2020, 39, 4575-4583.	1.1	5
108	Surprisingly stable Si-CO species. <i>Nature Chemistry</i> , 2020, 12, 1089-1091.	6.6	2

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109	A Non-innocent Ligand Supported Germylene and Its Diverse Reactions. <i>Organometallics</i> , 2020, 39, 4645-4650.	1.1	10
110	Isomerism and Biradical Character of Tetrapnictide Dianions: A Computational Study. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 3580-3586.	1.0	6
111	A Prelude to Biogermylene Chemistry**. <i>Angewandte Chemie</i> , 2020, 132, 21561-21565.	1.6	0
112	A Mono-substituted Silicon(II) Cation: A Crystalline Supersilylene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19065-19069.	7.2	29
113	Terminal Phosphinidene Complex Adducts with Neutral and Anionic O-Donors and Halides and the Search for a Differentiating Bonding Descriptor. <i>Inorganic Chemistry</i> , 2020, 59, 12829-12841.	1.9	22
114	Metal-Ligand Cooperation Facilitates Bond Activation and Catalytic Hydrogenation with Zinc Pincer Complexes. <i>Journal of the American Chemical Society</i> , 2020, 142, 14513-14521.	6.6	41
115	A Prelude to Biogermylene Chemistry**. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21377-21381.	7.2	8
116	An organoantimony nitrate complex with azastibocine framework as water tolerant Lewis acid catalyst for the synthesis of 1,2-disubstituted benzimidazoles. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5881.	1.7	3
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118	Ein einfach koordiniertes Silizium(II)-Kation: Ein kristallines Supersilylen. <i>Angewandte Chemie</i> , 2020, 132, 19227-19231.	1.6	5
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120	Amidinato Germylene-Zinc Complexes: Synthesis, Bonding, and Reactivity. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3116-3121.	1.7	11
122	Pentamethylcyclopentadienyl-substituted hypersilylsilylene: reversible and irreversible activation of C=C double bonds and dihydrogen. <i>Dalton Transactions</i> , 2020, 49, 13218-13225.	1.6	16
123	Activation of small molecules by cyclic alkyl amino silylenes (CAASis) and germylenes (CAAGes): a theoretical study. <i>Dalton Transactions</i> , 2020, 49, 13760-13772.	1.6	3
124	Round-Trip Oxidative Addition, Ligand Metathesis, and Reductive Elimination in a <i>P^{III}/P^V</i> Synthetic Cycle. <i>Journal of the American Chemical Society</i> , 2020, 142, 16188-16193.	6.6	38
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128	Cleavage of the Inert C(sp ²)–Ar ĩf-Bond of Alkenes by a Spatial Constrained Interaction with Phosphinidene. <i>Journal of the American Chemical Society</i> , 2020, 142, 20973-20978.	6.6	17
129	Catalytic Activation of N ₂ O at a Low-Valent Bismuth Redox Platform. <i>Journal of the American Chemical Society</i> , 2020, 142, 19473-19479.	6.6	76
130	Reductive Amination of Aryl Boronic Acids: Parallelism of the Catalytic Reactivity of Transition Metals and Main Group Elements in the C(sp ²)–N Bond-Forming Reactions. <i>Synthesis</i> , 2020, 52, 1897-1902.	1.2	2
131	1,2-Insertion reactions of alkynes into Ge–C bonds of arylbromogermylene. <i>Dalton Transactions</i> , 2020, 49, 7189-7196.	1.6	7
132	Shedding Light on the Diverse Reactivity of NaCNaAl with N-Heterocycles. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16147-16153.	7.2	9
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134	Activation of C–F, Si–F, and S–F Bonds by N-Heterocyclic Carbenes and Their Isoelectronic Analogues. <i>Synlett</i> , 2020, 31, 1349-1360.	1.0	17
135	An Update on Multiple Bonding between Heavier Main Group Elements: The Importance of Pauli Repulsion, Charge-Shift Character, and London Dispersion Force Effects. <i>Organometallics</i> , 2020, 39, 4127-4138.	1.1	85
136	Shedding Light on the Diverse Reactivity of NaCNaAl with N-Heterocycles. <i>Angewandte Chemie</i> , 2020, 132, 16281-16287.	1.6	4
137	Boosting Low-Valent Aluminum(I) Reactivity with a Potassium Reagent. <i>Angewandte Chemie</i> , 2020, 132, 16116-16120.	1.6	49
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