

Jilai Li

List of Publications by Year in descending order

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106
papers

2,218
citations

201385

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docs citations

114
times ranked

1622
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Effects on Room-Temperature, Gas-Phase C-H Bond Activations by Cluster Oxides and Metal Carbides: The Methane Challenge. <i>Journal of the American Chemical Society</i> , 2017, 139, 17201-17212.	6.6	149
2	Electrostatic and Charge-Induced Methane Activation by a Concerted Double C-H Bond Insertion. <i>Journal of the American Chemical Society</i> , 2017, 139, 1684-1689.	6.6	96
3	Unexpected Mechanistic Variants in the Thermal Gas-Phase Activation of Methane. <i>Organometallics</i> , 2017, 36, 8-17.	1.1	91
4	Electronic Origins of the Variable Efficiency of Room-Temperature Methane Activation by Homo- and Heteronuclear Cluster Oxide Cations [XYO ₂] ⁺ (X, Y = Al, Si, Mg): Competition between Proton-Coupled Electron Transfer and Hydrogen-Atom Transfer. <i>Journal of the American Chemical Society</i> , 2016, 138, 7973-7981.	6.6	90
5	Mechanistic Variants in Gas-Phase Metal-Oxide Mediated Activation of Methane at Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2016, 138, 11368-11377.	6.6	85
6	Ta ₂ ⁺ -mediated ammonia synthesis from N ₂ and H ₂ at ambient temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11680-11687.	3.3	84
7	Bond Activation by Metal-Carbene Complexes in the Gas Phase. <i>Accounts of Chemical Research</i> , 2016, 49, 494-502.	7.6	68
8	Control of Product Distribution and Mechanism by Ligation and Electric Field in the Thermal Activation of Methane. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10219-10223.	7.2	68
9	Complete cleavage of the N≡N triple bond by Ta ₂ N ⁺ via degenerate ligand exchange at ambient temperature: A perfect catalytic cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21416-21420.	3.3	60
10	Hidden Hydride Transfer as a Decisive Mechanistic Step in the Reactions of the Unligated Gold Carbide [AuC] ⁺ with Methane under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13072-13075.	7.2	54
11	Large Density-Functional and Basis-Set Effects for the DMSO Reductase Catalyzed Oxo-Transfer Reaction. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1799-1807.	2.3	42
12	Differences and Commonalities in the Gas-Phase Reactions of Closed-Shell Metal Dioxide Clusters [MO ₂] ⁺ (M=V, Nb, and Ta) with Methane. <i>Chemistry - A European Journal</i> , 2016, 22, 7225-7228.	1.7	39
13	Intrinsic Reactivity of Diatomic 3d Transition-Metal Carbides in the Thermal Activation of Methane: Striking Electronic Structure Effects. <i>Journal of the American Chemical Society</i> , 2019, 141, 599-610.	6.6	39
14	Ligand-Controlled CO ₂ Activation Mediated by Cationic Titanium Hydride Complexes, [LTiH] ⁺ (L=Cp ₂ , O). <i>Chemistry - A European Journal</i> , 2015, 21, 8483-8490.	1.7	38
15	On the Role of the Electronic Structure of the Heteronuclear Oxide Cluster [Ga ₂ Mg ₂ O ₅] ⁺ in the Thermal Activation of Methane and Ethane: An Unusual Doping Effect. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5074-5078.	7.2	36
16	Spin-Selective Thermal Activation of Methane by Closed-Shell [TaO ₃] ⁺ . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7257-7260.	7.2	36
17	Mechanism Insights of Ethane C-H Bond Activations by Bare [FeIII•O] ⁺ : Explicit Electronic Structure Analysis. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1475-1485.	1.1	35
18	Large Equatorial Ligand Effects on C-H Bond Activation by Nonheme Iron(IV)-oxo Complexes. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1493-1500.	1.2	35

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19	Recent Advances in Iron-Catalyzed C-H Bond Activation Reactions. <i>Current Inorganic Chemistry</i> , 2012, 2, 64-85.	0.2	34
20	Efficient Room-Temperature, Au-Mediated Coupling of a Carbene Ligand with Methane To Generate C ₂ H ₂ (x=4, 6). <i>Angewandte Chemie - International Edition</i> , 2016, 55, 441-444.	7.2	32
21	Mechanism of benzenehydroxylation by high-valent bare Fe ^{iv} O ²⁺ : explicit electronic structure analysis. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 246-256.	1.3	30
22	Composition- and Size-Controlled Cyclic Self-Assembly by Solvent- and C ₆₀ -Responsive Self-Sorting. <i>Journal of the American Chemical Society</i> , 2013, 135, 15263-15268.	6.6	30
23	Benchmark Study on Methanol C-H and O-H Bond Activation by Bare [Fe ^{IV} O] ²⁺ . <i>Journal of Physical Chemistry A</i> , 2014, 118, 7146-7158.	1.1	30
24	Relay Stations for Electron Hole Migration in Peptides: Possibility for Formation of Three-Electron Bonds along Peptide Chains. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14302-14311.	1.2	28
25	Aromatic Residues Regulating Electron Relay Ability of S-Containing Amino Acids by Formations of S-Fe Multicenter Three-Electron Bonds in Proteins. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19682-19688.	1.5	28
26	Activation of Methane and Carbon Dioxide Mediated by Transition-Metal Doped Magnesium Oxide Clusters [MMgO] ^{+/0/-} (M=Sc-Zn). <i>Chemistry - A European Journal</i> , 2015, 21, 7780-7789.	1.7	28
27	Electronic Enhancement Effect of Copper Modification of Base Pairs on the Conductivity of DNA. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22547-22556.	1.5	27
28	Distinct Mechanistic Differences in the Hydrogen-Atom Transfer from Methane and Water by the Heteronuclear Oxide Cluster [Ga ₂ MgO ₄] ⁺ . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12298-12302.	7.2	25
29	Sequential Gas-Phase Activation of Carbon Dioxide and Methane by [Re(CO) ₂] ⁺ : The Sequence of Events Matters!. <i>Journal of the American Chemical Society</i> , 2017, 139, 6169-6176.	6.6	25
30	Artificial Cytochrome c Mimics: Graphene Oxide-Fe(III) Complex-Coated Molecularly Imprinted Colloidosomes for Selective Photoreduction of Highly Toxic Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6615-6626.	4.0	25
31	Catalytic Cycle of Multicopper Oxidases Studied by Combined Quantum- and Molecular-Mechanical Free-Energy Perturbation Methods. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8268-8284.	1.2	24
32	A quantum-mechanical study of the reaction mechanism of sulfite oxidase. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 1165-1179.	1.1	23
33	A Computational Comparison of Oxygen Atom Transfer Catalyzed by Dimethyl Sulfide Reductase with Mo and W. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3580-3589.	1.0	23
34	Oriented external electric fields as mimics for probing the role of metal ions and ligands in the thermal gas-phase activation of methane. <i>Dalton Transactions</i> , 2018, 47, 15271-15277.	1.6	23
35	Hidden Hydride Transfer as a Decisive Mechanistic Step in the Reactions of the Unligated Gold Carbide [AuC] ⁺ with Methane under Ambient Conditions. <i>Angewandte Chemie</i> , 2016, 128, 13266-13269.	1.6	22
36	A Reaction-Induced Localization of Spin Density Enables Thermal C-H Bond Activation of Methane by Pristine FeC ₄ ⁺ . <i>Chemistry - A European Journal</i> , 2019, 25, 12940-12945.	1.7	22

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37	Efficient Room-Temperature Activation of Methane by TaN ⁺ under C~N Coupling. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11678-11681.	7.2	21
38	The Unique Gas-Phase Chemistry of the [AuO] ⁺ /CH ₄ Couple: Selective Oxygen-Atom Transfer to, Rather than Hydrogen-Atom Abstraction from, Methane. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10877-10880.	7.2	21
39	Striking Doping Effects on Thermal Methane Activation Mediated by the Heteronuclear Metal Oxides [X ₂ AlO ₄] ⁺ (X=V, Nb, and Ta). <i>Chemistry - A European Journal</i> , 2017, 23, 788-792.	1.7	21
40	Thermal Dehydrogenation of Methane by [ReN] ⁺ . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14863-14866.	7.2	20
41	A Barrier-Free Atomic Radical-Molecule Reaction: F + Propene. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 1551-1564.	2.3	19
42	On the Mechanisms of Hydrogen-Atom Transfer from Water to the Heteronuclear Oxide Cluster [Ga ₂ Mg ₂ O ₅] ⁺ : Remarkable Electronic Structure Effects. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11861-11864.	7.2	19
43	Spinabhängige, thermische Aktivierung von Methan durch den geschlossenschaligen Cluster [TaO ₃] ⁺ . <i>Angewandte Chemie</i> , 2016, 128, 7374-7377.	1.6	18
44	Thermal Activation of Methane by [HfO] ⁺ and [XHfO] ⁺ (X=F, Cl, Br, I) and the Origin of a Remarkable Ligand Effect. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7685-7688.	7.2	18
45	Comparison of the Active-Site Design of Molybdenum Oxo-Transfer Enzymes by Quantum Mechanical Calculations. <i>Inorganic Chemistry</i> , 2014, 53, 11913-11924.	1.9	17
46	On the Origin of the Remarkably Variable Reactivities of [AlCeO _x] ⁺ (x=2, 3, 4) towards Methane as a Function of Oxygen Content. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 413-416.	7.2	17
47	Theoretical Elucidation of the Platinum-Mediated Arene C~H Activation Reactions. <i>Organometallics</i> , 2007, 26, 2203-2210.	1.1	16
48	A Theoretical Study on Methane C~H Bond Activation by Bare [FeO] ⁺ . <i>Journal of Physical Chemistry A</i> , 2017, 121, 3501-3514.	1.1	16
49	Electronic promotion effect of double proton transfer on conduction of DNA through improvement of transverse electronic communication of base pairs. <i>Journal of Chemical Physics</i> , 2011, 135, 134315.	1.2	15
50	The Origin of the Efficient, Thermal Chemisorption of Methane by the Heteronuclear Metal-Oxide Cluster [Al ₂ TaO ₅] ⁺ . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14867-14871.	7.2	15
51	Absorption and fluorescence emission spectroscopic characters of naphtho-homologated DNA bases and effect of methanol solution and base pairing. <i>Journal of Computational Chemistry</i> , 2010, 31, 825-836.	1.5	14
52	Steuerung der Produktverteilung und der Mechanismen der thermischen Aktivierung von Methan durch Ligandeneffekte und elektrische Felder. <i>Angewandte Chemie</i> , 2017, 129, 10353-10357.	1.6	13
53	Thermal C~H Bond Activation of Water As Mediated by Heteronuclear [Al ₂ Mg ₂ O ₅] ⁺ : Evidence for Oxygen-Atom Scrambling. <i>Journal of the American Chemical Society</i> , 2018, 140, 9275-9281.	6.6	13
54	Carbon-Atom Extrusion from Halobenzenes and Its Coupling with a Methylene Ligand to Form Acetylene. <i>Chemistry - A European Journal</i> , 2015, 21, 9629-9631.	1.7	12

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55	Highly regioselective hydride transfer, oxidative dehydrogenation, and hydrogen-atom abstraction in the thermal gas-phase chemistry of $[\text{Zn}(\text{OH})]_{3+}/\text{C}_{3+}\text{H}_{8+}$. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26617-26623.	1.3	11
56	Direct Ab Initio Dynamics Study of Radical $\text{C}_{4+}\text{H}(\dot{\text{X}}\text{f})_{2+}\dot{\text{X}}_{+}$ + CH_{4+} Reaction. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3576-3582.	1.1	10
57	Direct ab initio dynamics study of the reaction of $\text{C}_{2+}(\text{A})_{3+}\dot{\text{X}}_{+}$ with CH_{4+} . <i>International Journal of Quantum Chemistry</i> , 2012, 112, 1078-1085.	1.0	10
58	Breaking and Making of Carbon-Carbon Bonds by Lanthanides and Third-Row Transition Metals. <i>Chemistry - A European Journal</i> , 2016, 22, 3073-3076.	1.7	10
59	On the Origin of Room-temperature, Au-mediated Coupling of a Methylene Ligand with H_{2+} . Implications for the Mechanism of Methane Dehydrogenation.. <i>ChemistrySelect</i> , 2016, 1, 444-447.	0.7	10
60	Zum Ursprung der effizienten thermischen Chemisorption von Methan durch den heteronuklearen Metalloxydcluster $[\text{Al}_{2+}\text{TaO}_{5+}]_{+}$. <i>Angewandte Chemie</i> , 2016, 128, 15090-15094.	1.6	10
61	Counterintuitive Gas-Phase Reactivities of $[\text{V}_{2+}]_{+}$ and $[\text{V}_{2+}\text{O}]_{+}$ towards CO_{2+} Reduction: Insight from Electronic Structure Calculations. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12308-12314.	7.2	10
62	Deutlich unterschiedliche Mechanismen der Wasserstoffatomabstraktion aus Methan und Wasser durch den heteronuklearen Oxidcluster $[\text{Ga}_{2+}\text{MgO}_{4+}]_{+}$. <i>Angewandte Chemie</i> , 2015, 127, 12472-12477.	1.6	9
63	Thermische Aktivierung von Methan durch $[\text{HfO}]_{+}$ und $[\text{XHfO}]_{+}$ (X=F, Cl, Br). <i>Tj ETQq1</i> 1,0.784314 rgBT /C 1.6	1.6	9
64	Thermische Dehydrierung von Methan durch $[\text{ReN}]_{+}$. <i>Angewandte Chemie</i> , 2016, 128, 15085-15089.	1.6	9
65	On the Origin of Reactivity Enhancement/Suppression upon Sequential Ligation: $[\text{Re}(\text{CO})_{x+}/\text{CH}_{4+}$ ($x=0-3$) Couples. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2951-2954.	7.2	9
66	Ursachen der unterschiedlichen Reaktivität von $[\text{AlCeOx}]_{+}$ ($x=2-4$) gegenüber Methan in Abhängigkeit vom Sauerstoffgehalt. <i>Angewandte Chemie</i> , 2017, 129, 424-428.	1.6	9
67	F/Cl+C ₂ H ₂ reactions: Are the addition and hydrogen abstraction direct processes?. <i>Chemical Physics</i> , 2006, 331, 42-54.	0.9	8
68	Effiziente, thermische Aktivierung von Methan durch TaN unter C-N-Kupplung. <i>Angewandte Chemie</i> , 2016, 128, 11851-11855.	1.6	8
69	A Theoretical Study on the Potential Energy Surface of the $\text{1C}_3 + \text{NO}$ Reaction. <i>Computational and Theoretical Chemistry</i> , 2005, 730, 207-215.	1.5	7
70	Direct ab initio dynamics study of the reaction of $\text{C}_2(\text{A}^3\dot{\text{u}})$ radical with C_2H_6 . <i>Chemical Physics Letters</i> , 2011, 503, 210-214.	1.2	7
71	On the Crucial Role of Isolated Electronic States in the Thermal Reaction of ReC_{+} with Dihydrogen. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9370-9376.	7.2	7
72	A barrier-free atom-molecule reaction: $\text{F} + \text{HONO}$. <i>Chemical Physics</i> , 2006, 324, 474-482.	0.9	6

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73	OH + HONO reaction: A theoretical study. Computational and Theoretical Chemistry, 2007, 847, 10-22.	1.5	6
74	Conformational transition pathway in the allosteric process of calcium-induced recoverin: Molecular dynamics simulations. Journal of Computational Chemistry, 2009, 30, 1135-1145.	1.5	6
75	Die Chemie von $[AuO]^{+}/CH_4$ in der Gasphase: Selektive Sauerstoffatom-Übertragung auf, statt Wasserstoffatom-Abstraktion von Methan. Angewandte Chemie, 2016, 128, 11036-11039.	1.6	6
76	Reaction mechanisms of methanol oxidation by $Fe^{IV}O$ biomimetic complex. International Journal of Quantum Chemistry, 2016, 116, 692-701.	1.0	6
77	Reassessment of the Mechanisms of Thermal C-H Bond Activation of Methane by Cationic Magnesium Oxides: A Critical Evaluation of the Suitability of Different Density Functionals. ChemPhysChem, 2019, 20, 1812-1821.	1.0	5
78	Cl+HONO reaction: Are the hydrogen abstraction and addition direct/indirect processes?. Chemical Physics Letters, 2007, 441, 198-203.	1.2	4
79	Atomic radical molecule reactions $F + CH_3CH$: mechanistic study. Theoretical Chemistry Accounts, 2007, 117, 417-429.	0.5	4
80	The Effects of Biological Environments on the Electron-Relay Functionality of Tryptophan Residues in Proteins. ChemPhysChem, 2012, 13, 183-192.	1.0	4
81	Mechanism Study of $C_4H(X^{2+})+H_2$ Reaction by Direct Ab Initio Methods. Acta Chimica Sinica, 2013, 71, 743.	0.5	4
82	A barrier-free molecular radical-molecule reaction: $C_2(a^3\Pi) + O_2(X^3\Sigma^-_g)$. Overlock 10 Tf 50 382	0.5	3
83	Atomic radical molecule reaction $N(4S)+NO_2(2A_1)$: Mechanistic study. Chemical Physics, 2009, 358, 80-84.	0.9	3
84	On the Crucial Role of Isolated Electronic States in the Thermal Reaction of $ReC +$ with Dihydrogen. Angewandte Chemie, 2020, 132, 9456-9462.	1.6	3
85	CHAPTER 7. Computational Studies of Molybdenum and Tungsten Enzymes. 2-Oxoglutarate-Dependent Oxygenases, 2016, , 275-321.	0.8	3
86	Stripping the Carbon Atom of Methyl Halide by a Cationic Holmium Complex: A Gas-Phase Study. Chemistry - A European Journal, 2015, 21, 14305-14308.	1.7	2
87	Frontispiece: Distinct Mechanistic Differences in the Hydrogen-Atom Transfer from Methane and Water by the Heteronuclear Oxide Cluster $[Ga_2MgO_4]^+$. Angewandte Chemie - International Edition, 2015, 54, n/a/n/a.	7.2	2
88	Mechanistic Aspects of the Holmium-Mediated, Reciprocal Hydrogen/Sulfur Exchange in the Gas Phase: $C_6H_5CH_3+CH_2^+C_6H_5CH_3 \rightleftharpoons C_6H_5CH_2^+CH_3$. Chemistry - A European Journal, 2016, 22, 4336-4339.		
89	On the Origin of Reactivity Enhancement/Suppression upon Sequential Ligation: $[Re(CO)_x]^{+}/CH_4$ ($x=0-3$) Couples. Angewandte Chemie, 2017, 129, 2997-3000.	1.6	2
90	Revisiting the Intriguing Electronic Features of the BeOBeC Carbyne and Some Isomers: A Quantum-Chemical Assessment. Angewandte Chemie - International Edition, 2020, 59, 17261-17265.	7.2	2

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91	Experiment and Theory Clarify: Sc + Receives One Oxygen Atom from SO ₂ to Form ScO + , which Proves to be a Catalyst for the Hidden Oxygen-Exchange with SO ₂ . ChemPhysChem, 2021, , .	1.0	2
92	Diatomic radical-“molecule reactions CN + HONO: Mechanistic study. Computational and Theoretical Chemistry, 2008, 857, 20-26.	1.5	1
93	Theoretical elucidation of the rhodium-catalyzed [4 + 2] annulation reactions. Journal of Computational Chemistry, 2008, 29, 686-693.	1.5	1
94	Mechanistic study on iron(II)-mediated direct arylation of benzene with chlorobenzene. International Journal of Quantum Chemistry, 2019, 119, e25912.	1.0	1
95	Counter-Intuitive Gas-Phase Reactivities of [V ₂] ⁺ and [V ₂ O] ⁺ towards CO ₂ Reduction: Insight from Electronic Structure Calculations. Angewandte Chemie, 2020, 132, 12406-12412.	1.6	1
96	A Theoretical Study on Activation of C-H and C-Cl Bonds in CH ₃ X (X=H, Cl) by Fe ²⁺ . Acta Chimica Sinica, 2012, 70, 1245.	0.5	1
97	A Theoretical Study of the Reaction of Fe ⁺ with CH ₃ X (X=Cl, Br, I). Acta Chimica Sinica, 2013, 71, 749.	0.5	1
98	Direct ab initio dynamics study of rate constants and kinetic isotope effects for C ₂ (A ³) + CH ₃ OH reaction. Molecular Physics, 2012, 110, 2205-2217.	0.8	0
99	Direct ab initio study on the rate constants of radical C ₂ (A ³) + C ₃ H ₈ reaction. Journal of Molecular Modeling, 2013, 19, 1009-1018.	0.8	0
100	Theoretical Study of Methanol C-H and O-H Bond Activation by PtRu Clusters. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2015, 31, 1077-1085.	2.2	0
101	Frontispiz: Deutlich unterschiedliche Mechanismen der Wasserstoffatomabstraktion aus Methan und Wasser durch den heteronuklearen Oxidcluster [Ga ₂ MgO ₄].+. Angewandte Chemie, 2015, 127, n/a-n/a.	1.6	0
102	Frontispiece: Mechanistic Aspects of the Holmium-Mediated, Reciprocal Hydrogen/Sulfur Exchange in the Gas Phase: C ₆ H ₅ CH ₃ + CH ₂ S + C ₆ H ₅ CH ₃ CHS + CH ₄ . Chemistry - A European Journal, 2016, 22, .	1.7	0
103	Rücktitelbild: Steuerung der Produktverteilung und der Mechanismen der thermischen Aktivierung von Methan durch Ligandeneffekte und elektrische Felder (Angew. Chem. 34/2017). Angewandte Chemie, 2017, 129, 10382-10382.	1.6	0
104	Frontispiece: Counter-Intuitive Gas-Phase Reactivities of [V ₂] ⁺ and [V ₂ O] ⁺ towards CO ₂ Reduction: Insight from Electronic Structure Calculations. Angewandte Chemie - International Edition, 2020, 59, .	7.2	0
105	Frontispiz: Counter-Intuitive Gas-Phase Reactivities of [V ₂] ⁺ and [V ₂ O] ⁺ towards CO ₂ Reduction: Insight from Electronic Structure Calculations. Angewandte Chemie, 2020, 132, .	1.6	0
106	Revisiting the Intriguing Electronic Features of the BeOBeC Carbyne and Some Isomers: A Quantum-Chemical Assessment. Angewandte Chemie, 2020, 132, 17414-17418.	1.6	0