

Sheng-Gui He

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249
papers

6,392
citations

44
h-index

65
g-index

257
ext. papers

7,053
ext. citations

5.5
avg, IF

6.08
L-index

#	Paper	IF	Citations
249	C-H bond activation by oxygen-centered radicals over atomic clusters. <i>Accounts of Chemical Research</i> , 2012 , 45, 382-90	24.3	229
248	CO oxidation catalyzed by single gold atoms supported on aluminum oxide clusters. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14307-13	16.4	174
247	Characterization and reactivity of oxygen-centred radicals over transition metal oxide clusters. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1925-38	3.6	149
246	Experimental and theoretical study of the reactions between small neutral iron oxide clusters and carbon monoxide. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15879-88	16.4	145
245	Experimental and theoretical study of the reactions between neutral vanadium oxide clusters and ethane, ethylene, and acetylene. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1932-43	16.4	134
244	Active sites of stoichiometric cerium oxide cations (Ce _m O _{2m+}) probed by reactions with carbon monoxide and small hydrocarbon molecules. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 3984-97	3.6	123
243	Ratiometric fluorescent sensor based on inhibition of resonance for detection of cadmium in aqueous solution and living cells. <i>Inorganic Chemistry</i> , 2011 , 50, 3680-90	5.1	114
242	Transition metal oxide clusters with character of oxygen-centered radical: a DFT study. <i>Theoretical Chemistry Accounts</i> , 2010 , 127, 449-465	1.9	113
241	CO oxidation promoted by gold atoms supported on titanium oxide cluster anions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 3617-23	16.4	108
240	Thermal methane conversion to formaldehyde promoted by single platinum atoms in PtAl ₂ O ₄ (-) cluster anions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9482-6	16.4	99
239	C-H bond activation by nanosized scandium oxide clusters in gas-phase. <i>International Journal of Mass Spectrometry</i> , 2012 , 310, 57-64	1.9	93
238	Hydrogen-atom abstraction from methane by stoichiometric early transition metal oxide cluster cations. <i>Chemical Communications</i> , 2010 , 46, 1736-8	5.8	93
237	Thermal Reactions of (V ₂ O ₅) _n O ⁻ (n = 1B) Cluster Anions with Ethylene and Propylene: Oxygen Atom Transfer Versus Molecular Association. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14967-14976	3.8	92
236	Room-temperature methane activation by a bimetallic oxide cluster. <i>Chemical Physics Letters</i> , 2010 , 489, 25-29	2.5	91
235	Stepwise Motion in a Multivalent [2](3)Catenane. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9739-45	16.4	87
234	Methane activation by V ₃ PO ₁₀ (μ) and V ₄ O ₁₀ (μ) clusters: a comparative study. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 12223-8	3.6	82
233	Hydrogen-atom abstraction from methane by stoichiometric vanadium-silicon heteronuclear oxide cluster cations. <i>Chemistry - A European Journal</i> , 2010 , 16, 11463-70	4.8	82

232	Reactions of V ₄ O ₁₀ ⁺ cluster ions with simple inorganic and organic molecules. <i>International Journal of Mass Spectrometry</i> , 2013 , 354-355, 105-112	1.9	73
231	Experimental and Theoretical Study of the Reactions between Cerium Oxide Cluster Anions and Carbon Monoxide: Size-Dependent Reactivity of Ce _n O _{2n+1} ⁻ (n = 1-11). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13329-13337	3.8	71
230	Experimental and Theoretical Study of the Reactions between Vanadium-Silicon Heteronuclear Oxide Cluster Anions with n-Butane. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12271-12279	3.8	71
229	Methane Activation by Gas Phase Atomic Clusters. <i>Accounts of Chemical Research</i> , 2018 , 51, 2603-2610	24.3	70
228	Reactivity of atomic oxygen radical anions bound to titania and zirconia nanoparticles in the gas phase: low-temperature oxidation of carbon monoxide. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2991-8	16.4	68
227	C=C bond cleavage on neutral VO ₃ (V ₂ O ₅) _n clusters. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1057-66	16.4	68
226	Methane activation by yttrium-doped vanadium oxide cluster cations: local charge effects. <i>Chemistry - A European Journal</i> , 2011 , 17, 11728-33	4.8	64
225	High-Resolution Fourier Transform Spectrum of HDO in the Region 6140-7040 cm ⁻¹ . <i>Journal of Molecular Spectroscopy</i> , 2001 , 208, 224-235	1.3	64
224	Formation, distribution, and structures of oxygen-rich iron and cobalt oxide clusters. <i>International Journal of Mass Spectrometry</i> , 2009 , 281, 72-78	1.9	63
223	Thermal reactions of YAlO ₃ ⁺ with methane: increasing the reactivity of Y ₂ O ₃ ⁺ and the selectivity of Al ₂ O ₃ ⁺ by doping. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5991-4	16.4	62
222	High-Resolution Study of Strongly Interacting Vibrational Bands of HDO in the Region 7600-8100 cm ⁻¹ . <i>Journal of Molecular Spectroscopy</i> , 2000 , 203, 228-234	1.3	62
221	Self-assembled hollow nanospheres strongly enhance photoluminescence. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11022-5	16.4	59
220	On the origin of the surprisingly sluggish redox reaction of the N ₂ O/CO couple mediated by [Y ₂ O ₂] ⁺ and [YAlO ₂] ⁺ cluster ions in the gas phase. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1226-30	16.4	55
219	CO activation on aluminum-vanadium bimetallic oxide cluster anions. <i>Chemistry - A European Journal</i> , 2011 , 17, 3449-57	4.8	52
218	CO Oxidation Promoted by Gold Atoms Loosely Attached in AuFeO ₃ (-) Cluster Anions. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1585-90	6.4	51
217	High-Resolution Fourier Transform Spectrum of the D(2)O Molecule in the Region of the Second Triad of Interacting Vibrational States. <i>Journal of Molecular Spectroscopy</i> , 2000 , 200, 34-39	1.3	51
216	High-Resolution Fourier-Transform Intracavity Laser Absorption Spectroscopy of D ₂ O in the Region of the 4-3 Band. <i>Journal of Molecular Spectroscopy</i> , 2002 , 212, 89-95	1.3	50
215	Collision-induced dissociation and density functional theory studies of CO adsorption over zirconium oxide cluster ions: oxidative and nonoxidative adsorption. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 5238-46	2.8	49

214	High-Resolution Study of the First Hexad of D(2)O. <i>Journal of Molecular Spectroscopy</i> , 2000 , 200, 25-33	1.3	49
213	High-Resolution Study of the $(\nu(1) + 12\nu(2) + \nu(3) = 3)$ Polyad of Strongly Interacting Vibrational Bands of D(2)O. <i>Journal of Molecular Spectroscopy</i> , 2000 , 204, 216-225	1.3	49
212	Activation of multiple C-H bonds promoted by gold in AuNbO(3)(+) clusters. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2444-8	16.4	48
211	Reactions of sulfur dioxide with neutral vanadium oxide clusters in the gas phase. II. Experimental study employing single-photon ionization. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 11067-77	2.8	47
210	Dinitrogen Fixation and Reduction by TaNH Cluster Anions at Room Temperature: Hydrogen-Assisted Enhancement of Reactivity. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12592-12606	16.4	46
209	Density-functional global optimization of (La2O3) _n clusters. <i>Journal of Chemical Physics</i> , 2012 , 137, 21433-4	3.9	46
208	High-Resolution Fourier Transform Spectrum of D2O in the Region Near 0.97 μ m. <i>Journal of Molecular Spectroscopy</i> , 2001 , 210, 18-27	1.3	45
207	Ground state structures of Fe(2)O(4-6)(+) clusters probed by reactions with N(2). <i>Journal of Physical Chemistry A</i> , 2009 , 113, 5302-9	2.8	44
206	Partial oxidation of propylene catalyzed by VO3 clusters: a density functional theory study. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 5984-93	2.8	44
205	High resolution vibration-rotation spectrum of the D2O molecule in the region near the $2\bar{1} + \bar{0} + \bar{0}$ absorption band. <i>Molecular Physics</i> , 2001 , 99, 931-937	1.7	43
204	Density functional study on cage and noncage (Fe2O3) _n clusters. <i>Journal of Chemical Physics</i> , 2009 , 130, 014303	3.9	42
203	Methane activation by gold-doped titanium oxide cluster anions with closed-shell electronic structures. <i>Chemical Science</i> , 2016 , 7, 4730-4735	9.4	42
202	The Formation of Ti-H Species at Interface Is Lethal to the Efficiency of TiO-Based Dye-Sensitized Devices. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2083-2089	16.4	41
201	Formation of Gas-Phase Formate in Thermal Reactions of Carbon Dioxide with Diatomic Iron Hydride Anions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4187-4191	16.4	39
200	Gold(III) Mediated Activation and Transformation of Methane on Au1-Doped Vanadium Oxide Cluster Cations AuV2O6(.). <i>Journal of the American Chemical Society</i> , 2016 , 138, 9437-43	16.4	39
199	Thermal Dihydrogen Activation by a Closed-Shell AuCeO2(+) Cluster. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3890-4	6.4	39
198	Thermal Methane Conversion to Syngas Mediated by Rh-Doped Aluminum Oxide Cluster Cations RhAlO. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12854-12860	16.4	37
197	Methane Activation by Iron-Carbide Cluster Anions FeC6(-). <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2287-91	6.4	36

196	Thermal Methane Conversion to Formaldehyde Promoted by Single Platinum Atoms in PtAl ₂ O ₄ Cluster Anions. <i>Angewandte Chemie</i> , 2014 , 126, 9636-9640	3.6	36
195	Experimental and theoretical study of the reactions between vanadium oxide cluster cations and water. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 2049-54	2.8	36
194	CO Oxidation Promoted by the Gold Dimer in Au ₂ VO ₃ (-) and Au ₂ VO ₄ (-) Clusters. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11720-4	16.4	35
193	Fourier-transform intra-cavity laser absorption spectroscopy of HOD $\nu_D=5$ overtone. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 3727-3730	3.6	35
192	Catalytic CO Oxidation by O Mediated by Noble-Metal-Free Cluster Anions CuVO. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3349-3353	16.4	34
191	Acetylene cyclotrimerization catalyzed by TiO ₂ and VO ₂ in the gas phase: a DFT study. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 3731-41	2.8	34
190	Noble-Metal-Free Single-Atom Catalysts CuAlO for CO Oxidation by O. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10989-10993	16.4	34
189	Methane Activation by Tantalum Carbide Cluster Anions TaC. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 605-610	6.4	33
188	Catalytic CO Oxidation on Single Pt-Atom Doped Aluminum Oxide Clusters: Electronegativity-Ladder Effect. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15414-15420	3.8	33
187	A nine-atom rhodium-aluminum oxide cluster oxidizes five carbon monoxide molecules. <i>Nature Communications</i> , 2016 , 7, 11404	17.4	33
186	Reactions of metal cluster anions with inorganic and organic molecules in the gas phase. <i>Dalton Transactions</i> , 2016 , 45, 11471-95	4.3	33
185	Thermal conversion of methane to formaldehyde promoted by gold in AuNbO ₃ (+) cluster cations. <i>Chemistry - A European Journal</i> , 2015 , 21, 6957-61	4.8	33
184	On the Study of Resonance Interactions and Splittings in the PH ₃ Molecule: $\bar{1}$, $\bar{3}$, $\bar{2}+\bar{4}$, and $2\bar{4}$ Bands. <i>Journal of Molecular Spectroscopy</i> , 2002 , 215, 295-308	1.3	33
183	Electronic structure and reactivity of a biradical cluster: Sc ₃ O ₆ (-). <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10084-90	3.6	32
182	Characterization of mononuclear oxygen-centered radical (O(-*)) in Zr(2)O(8)(-) cluster. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 10024-7	2.8	32
181	Activation of Methane and Ethane as Mediated by the Triatomic Anion HNbN(-): Electronic Structure Similarity with a Pt Atom. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4947-51	16.4	31
180	A stimulated emission pumping study of the first excited singlet state of germylidene (H ₂ C=Ge). <i>Journal of Chemical Physics</i> , 2004 , 121, 257-64	3.9	31
179	A Facile N≡N Bond Cleavage by the Trinuclear Metal Center in Vanadium Carbide Cluster Anions VC. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10747-10754	16.4	31

178	Zur Reaktion von YAlO_3 mit Methan bei Raumtemperatur: Dotierung macht Y_2O_3 reaktiver und Al_2O_3 selektiver. <i>Angewandte Chemie</i> , 2012 , 124, 6093-6096	3.6	30
177	Experimental and theoretical study of hydrogen atom abstraction from n-butane by lanthanum oxide cluster anions. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 10245-50	2.8	30
176	C-N Coupling in N Fixation by the Ditantalum Carbide Cluster Anions TaC. <i>Inorganic Chemistry</i> , 2019 , 58, 4701-4705	5.1	29
175	Structures and reactivity of oxygen-rich scandium cluster anions $\text{ScO}(3-5)^-$. <i>ChemPhysChem</i> , 2012 , 13, 1282-8	3.2	29
174	Catalytic CO Oxidation by Gas-Phase Metal Oxide Clusters. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 9257-9267	2.8	28
173	Methane activation by diatomic molybdenum carbide cations. <i>Chemistry - A European Journal</i> , 2014 , 20, 4163-9	4.8	28
172	Formation, detection, and stability studies of neutral vanadium sulfide clusters. <i>Journal of Chemical Physics</i> , 2007 , 126, 194315	3.9	28
171	Thermal methane activation by $\text{La}(6)\text{O}(10)^-$ cluster anions. <i>Chemistry - A European Journal</i> , 2014 , 20, 5580-3	4.8	27
170	Theoretical Investigation of the Selective Oxidation of Methanol to Formaldehyde on Vanadium Oxide Species Supported on Silica: Umbrella Model. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3161-3169	3.8	26
169	The stretching vibrational overtone spectra of PH_3 : Local mode vibrational analysis, dipole moment surfaces from density functional theory and band intensities. <i>Journal of Chemical Physics</i> , 2001 , 114, 7018-7026	3.9	26
168	Double-oxygen-atom transfer in reactions of $\text{Ce}(m)\text{O}(2m)^+$ ($m=2-6$) with C_2H_2 . <i>ChemPhysChem</i> , 2011 , 12, 2110-7	3.2	25
167	Metal-mediated catalysis in the gas phase: A review. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 1515-1527	11.3	24
166	Formation of Acetylene in the Reaction of Methane with Iron Carbide Cluster Anions FeC under High-Temperature Conditions. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2662-2666	16.4	24
165	Synthesis and charge-transporting properties of electron-deficient CN_2 fluorene based D π A copolymers. <i>Polymer Chemistry</i> , 2012 , 3, 2170	4.9	24
164	Activation of Methane Promoted by Adsorption of CO on Mo_2C_2^- Cluster Anions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5760-4	16.4	24
163	Photoelectron imaging spectroscopy of MoC^- and NbN^- diatomic anions: A comparative study. <i>Journal of Chemical Physics</i> , 2015 , 142, 164301	3.9	23
162	Experimental and Theoretical Study of the Reactions between Manganese Oxide Cluster Anions and Hydrogen Sulfide. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24184-24192	3.8	23
161	A theoretical study on the mechanism of C_2H_4 oxidation over a neutral $\text{V}(3)\text{O}(8)$ cluster. <i>ChemPhysChem</i> , 2010 , 11, 1718-25	3.2	23

160	On the Origin of the Surprisingly Sluggish Redox Reaction of the N ₂ O/CO Couple Mediated by [Y ₂ O ₂] ⁺ and [YAlO ₂] ⁺ Cluster Ions in the Gas Phase. <i>Angewandte Chemie</i> , 2013 , 125, 1264-1268	3.6	22
159	Interaction of vanadium oxide cluster anions with water: an experimental and theoretical study on reactivity and mechanism. <i>Dalton Transactions</i> , 2012 , 41, 5562-70	4.3	22
158	Reactivity control of C-H bond activation over vanadium-silver bimetallic oxide cluster cations. <i>Chemistry - A European Journal</i> , 2012 , 18, 10998-1006	4.8	22
157	Activation of Multiple C-H Bonds Promoted by Gold in AuNbO ₃ ⁺ Clusters. <i>Angewandte Chemie</i> , 2013 , 125, 2504-2508	3.6	22
156	Neutral Au-Doped Cluster Catalysts AuTiO for CO Oxidation by O. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2027-2034	16.4	22
155	Experimental and Theoretical Study of Hydrogen Atom Abstraction from C ₂ H ₆ and C ₄ H ₁₀ by Zirconium Oxide Clusters Anions. <i>Chinese Journal of Chemical Physics</i> , 2010 , 23, 133-137	0.9	20
154	Gas-Phase Reactions of Carbon Dioxide with Copper Hydride Anions Cu ₂ H ₂ ⁻ Temperature-Dependent Transformation. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19379-19384	3.8	19
153	Hydrogen Atom Abstraction from CH ₄ by Nanosized Vanadium Oxide Cluster Cations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24062-24071	3.8	19
152	Reactivity of Stoichiometric Lanthanum Oxide Cluster Cations in C-H Bond Activation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17548-17556	3.8	19
151	Classification of V _x O _y Clusters by $\frac{y}{x} = 2y+q$. <i>Chinese Journal of Chemical Physics</i> , 2011 , 24, 586-596	0.9	19
150	Coupling of Methane and Carbon Dioxide Mediated by Diatomic Copper Boride Cations. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 14134-14138	16.4	19
149	Does Each Atom Count in the Reactivity of Vanadia Nanoclusters?. <i>Journal of the American Chemical Society</i> , 2017 , 139, 342-347	16.4	18
148	Reactivity of oxygen radical anions bound to scandia nanoparticles in the gas phase: C-H bond activation. <i>Chemistry - A European Journal</i> , 2014 , 20, 1167-75	4.8	18
147	Multiple CO Oxidation Promoted by Au ₂ Dimers in Au ₂ TiO ₄ ⁻ Cluster Anions. <i>Chemistry - A European Journal</i> , 2016 , 22, 9024-9	4.8	18
146	Catalytic CO Oxidation by Noble-Metal-Free NiVO Clusters: A CO Self-Promoted Mechanism. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1133-1138	6.4	18
145	Reactivity of Tantalum Carbide Cluster Anions TaC ⁻ (n = 1-4) with Dinitrogen. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3489-3495	2.8	17
144	Experimental and Theoretical Study of the Reactions between Vanadium Oxide Cluster Cations and Hydrogen Sulfide. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 9043-9048	3.8	17
143	Rovibrational analysis of the absorption spectrum of HDO between 10 110 and 12 215 cm ⁻¹ . <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 910-918	3.6	17

142	Renner-Teller vibronic analysis for a tetra-atomic molecule. II. The ground state of the HCCS free radical. <i>Journal of Chemical Physics</i> , 2005 , 123, 014317	3.9	17
141	Dinitrogen Activation and Functionalization by Heteronuclear Metal Cluster Anions FeVC at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9990-9994	6.4	17
140	Oxidation of SO ₂ to SO ₃ by Cerium Oxide Cluster Cations Ce ₂ O ₄ (+) and Ce ₃ O ₆ (.). <i>Journal of Physical Chemistry A</i> , 2016 , 120, 3843-8	2.8	17
139	Formation, distribution, and photoreaction of nano-sized vanadium oxide cluster anions. <i>International Journal of Mass Spectrometry</i> , 2016 , 407, 62-68	1.9	16
138	Interaction of TiO ⁺ with water: infrared photodissociation spectroscopy and density functional calculations. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 17126-33	3.6	16
137	C-H bond activation by aluminum oxide cluster anions, an experimental and theoretical study. <i>Dalton Transactions</i> , 2013 , 42, 11205-11	4.3	16
136	Reaction of Cationic Vanadium Oxide Clusters with Ethylene in a Flow Tube Reactor. <i>Chinese Journal of Chemical Physics</i> , 2007 , 20, 412-418	0.9	16
135	Activation of dinitrogen by gas-phase species. <i>Chinese Journal of Chemical Physics</i> , 2020 , 33, 507-520	0.9	16
134	Photoassisted Selective Steam and Dry Reforming of Methane to Syngas Catalyzed by Rhodium-Vanadium Bimetallic Oxide Cluster Anions at Room Temperature. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21216-21223	16.4	16
133	Gas-Phase Reactions of Atomic Gold Cations with Linear Alkanes (C ₂ -C ₉). <i>Journal of Physical Chemistry A</i> , 2016 , 120, 4285-93	2.8	15
132	Side-on-End-on Coordination of Dinitrogen on a Polynuclear Vanadium Nitride Cluster Anion [V _n N]. <i>Chemistry - A European Journal</i> , 2019 , 25, 16523	4.8	15
131	High reactivity of nanosized niobium oxide cluster cations in methane activation: A comparison with vanadium oxides. <i>Journal of Chemical Physics</i> , 2015 , 143, 124312	3.9	15
130	C-H Bond Activation by Early Transition Metal Carbide Cluster Anion MoC ₃ (-). <i>Chemistry - A European Journal</i> , 2015 , 21, 17748-56	4.8	15
129	Collision-induced dissociation and infrared photodissociation studies of methane adsorption on V ₅ O ₁₂ (+) and V ₅ O ₁₃ (+) clusters. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 2961-70	2.8	15
128	The Renner-Teller effect and Sears resonances in the ground state of the GeCH and GeCD free radicals. <i>Journal of Chemical Physics</i> , 2003 , 119, 10115-10124	3.9	15
127	The SiH stretching bending overtone polyads of SiHF ₃ : Assignments, band intensities, internal coordinate force field, and ab initio dipole moment surfaces. <i>Journal of Chemical Physics</i> , 2001 , 115, 1378-1391	3.9	15
126	Catalytic Co-Conversion of CH ₄ and CO Mediated by Rhodium-Titanium Oxide Anions RhTiO. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13788-13792	16.4	15
125	Activity of Atomically Precise Titania Nanoparticles in CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8002-8006	16.4	14

124	Photoreaction Study of Methanol Adsorption Complexes on VO ₂ (V ₂ O ₅) _n + (n = 1B) Clusters at 355 nm. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18488-18495	3.8	14
123	Experimental and theoretical study of the reactions between MO ₂ ⁻ (M = Fe, Co, Ni, Cu, and Zn) cluster anions and hydrogen sulfide. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 8377-87	2.8	14
122	Renner-Teller vibronic analysis for a tetra-atomic molecule. I. The effective Hamiltonian and matrix elements. <i>Journal of Chemical Physics</i> , 2005 , 123, 014316	3.9	14
121	The vibrational overtones of SiH ₄ isotopomers: experimental wavenumbers, assignment, ab initio dipole moment surfaces and intensities. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 3506-3517	3.6	14
120	Thermal activation of methane by vanadium boride cluster cations VB (n = 3-6). <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4641-4645	3.6	13
119	Catalytic CO Oxidation by O ₂ Mediated by Noble-Metal-Free Cluster Anions Cu ₂ VO ₃ □□	3.6	13
118	Size-Dependent Association of Cobalt Deuteride Cluster Anions CoD (n = 0-4) with Dinitrogen. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 1956-1963	3.5	13
117	Direct Conversion of Methane with Carbon Dioxide Mediated by RhVO Cluster Anions. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17287-17292	16.4	13
116	A VUV photoionization time-of-flight mass spectrometer for the formation, distribution, and reaction of nano-sized neutral metal oxide clusters. <i>International Journal of Mass Spectrometry</i> , 2017 , 422, 98-104	1.9	13
115	Experimental and Theoretical Study of Hydrogen Atom Abstraction from Ethylene by Stoichiometric Zirconium Oxide Clusters. <i>Chinese Journal of Chemical Physics</i> , 2009 , 22, 635-641	0.9	13
114	The molecular structure and a Renner-Teller analysis of the ground and first excited electronic states of the jet-cooled CS ₂ + molecular ion. <i>Journal of Chemical Physics</i> , 2006 , 124, 084312	3.9	13
113	Laser spectroscopy and dynamics of the jet-cooled AsH ₂ free radical. <i>Journal of Chemical Physics</i> , 2007 , 126, 154312	3.9	13
112	Recent research progress in the study of catalytic CO oxidation by gas phase atomic clusters. <i>Science China Materials</i> , 2020 , 63, 892-902	7.1	13
111	Selective Conversion of Methane by Rh-Doped Aluminum Oxide Cluster Anions RhAlO: A Comparison with the Reactivity of PtAlO. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3950-3955	2.8	12
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