

Sheng-Gui He

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	CO self-promoted oxidation by gas-phase cluster anions IrVO ₄ <i>Chemical Physics Letters</i> , 2022 , 787, 139276	2.5	0
248	Size-dependent reactivity of rhodium deuteride cluster anions RhD (n = 0-3) toward dinitrogen: The prominent role of π -donation.. <i>Journal of Chemical Physics</i> , 2022 , 156, 064303	3.9	2
247	Conversion of Methane with Oxygen to Produce Hydrogen Catalyzed by Triatomic Rh Cluster Anion.. <i>Jacs Au</i> , 2022 , 2, 197-203		2
246	15 N/14N isotopic exchange in the dissociative adsorption of N ₂ on tantalum nitride cluster anions Ta ₃ N ₃ <i>Chinese Journal of Chemical Physics</i> , 2022 , 35, 77-85	0.9	1
245	Conversion of CH Catalyzed by Gas Phase Ions Containing Metals.. <i>Chemistry - A European Journal</i> , 2022 , e202200062	4.8	0
244	Recent Progress in Dinitrogen Activation by Gas-Phase Metal Species.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 4159-4169	6.4	1
243	Dinitrogen Activation by Heteronuclear Metal Carbide Cluster Anions FeTaC: A 5d Early and 3d Late Transition Metal Strategy. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19224-19231	16.4	11
242	A ship-lock-type reactor for ion-molecule reactions of mass-selected ions under high-pressure conditions. <i>Review of Scientific Instruments</i> , 2021 , 92, 104104	1.7	2
241	Global optimization of Tan clusters by deep neural network. <i>Chemical Physics Letters</i> , 2021 , 785, 139118	2.5	0
240	Activation of Carbon Dioxide by CoCD (= 0-4) Anions. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 3710-3718	1.8	2
239	Gemeinsame katalytische Umsetzung von CH ₄ und CO ₂ durch Rhodium-Titanoxid-Anionen RhTiO ₂ <i>Angewandte Chemie</i> , 2021 , 133, 13907-13911	3.6	1
238	Rhodium chemistry: A gas phase cluster study. <i>Journal of Chemical Physics</i> , 2021 , 154, 180901	3.9	7
237	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
236	An IrVO Cluster Catalytically Oxidizes Four CO Molecules: Importance of Ir-V Multiple Bonding. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6519-6525	6.4	4
235	Study on the Reaction of Nanosized Yttrium Oxide Cluster Anions with n-Butane in the Gas Phase. <i>Acta Chimica Sinica</i> , 2021 , 79, 490	3.3	0
234	Photooxidation of Isoprene by Titanium Oxide Cluster Anions with Dimensions up to a Nanosize. <i>Journal of the American Chemical Society</i> , 2021 , 143, 3951-3958	16.4	2
233	Water Gas Shift Reaction Catalyzed by Rhodium-Manganese Oxide Cluster Anions. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8513-8520	6.4	1

232	Dual Iron Sites in Activation of N by Iron-Sulfur Cluster Anions FeS and FeS. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 9269-9274	6.4	6
231	Metal-Dependent Selectivity on the Reactions of Carbon Dioxide with Diatomic Hydride Anions MH(M = Co, Ni, and Cu). <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5928-5933	3.8	7
230	Methane activation by heteronuclear diatomic AuRh cation: comparison with homonuclear Au and Rh. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 6231-6238	3.6	4
229	C-C Coupling of Methane Mediated by Atomic Gold Cations under Multiple-Collision Conditions. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020 , 36, 1904026-0	3.8	12
228	A Facile N ₂ 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
227	Activation of dinitrogen by gas-phase species. <i>Chinese Journal of Chemical Physics</i> , 2020 , 33, 507-520	0.9	16
226	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
225	Catalytic CO Oxidation by O Mediated with Single Gold Atom Doped Titanium Oxide Cluster Anions AuTiO. <i>ChemPhysChem</i> , 2020 , 21, 2550-2556	3.2	4
224	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
223	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
222	Reactivity of Iron Hydride Anions FeH (= 0-3) with Carbon Dioxide. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 8414-8420	2.8	2
221	Reactivity of Neutral Tantalum Sulfide Clusters TaS (= 0-4) with N. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 7749-7755	2.8	11
220	Photoassisted Selective Steam and Dry Reforming of Methane to Syngas Catalyzed by Rhodium-Vanadium Bimetallic Oxide Cluster Anions at Room Temperature. <i>Angewandte Chemie</i> , 2020 , 132, 21402-21409	3.6	4
219	CO Oxidation Catalyzed by the Neutral Cluster IrAl ₂ O ₈ with Iridium in a High Oxidation State of VI. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 8869-8875	3.8	6
218	CO oxidation by neutral gold-vanadium oxide clusters. <i>Chinese Journal of Chemical Physics</i> , 2019 , 32, 207-212	0.9	10
217	Sensitive Detection of Gas-Phase Glyoxal by Electron Attachment Reaction Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2019 , 91, 12688-12695	7.8	4
216	Doping Effects on the Reactivity of the MVO ₅ (M = V, Nb) Clusters in CO Oxidation Reaction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14180-14186	3.8	6
215	Activity of Atomically Precise Titania Nanoparticles in CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8002-8006	16.4	14

214	Selective Generation of Free Hydrogen Atoms in the Reaction of Methane with Diatomic Gold Boride Cations. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019 , 233, 785-797	3.1	2
213	C-N Coupling in N Fixation by the Ditantalum Carbide Cluster Anions TaC. <i>Inorganic Chemistry</i> , 2019 , 58, 4701-4705	5.1	29
212	Cooperative desorption of H ₂ O and CO from photo-excited cobalt oxide clusters: The evidence of photo-catalytic coupling. <i>Chemical Physics Letters</i> , 2019 , 719, 72-77	2.5	1
211	Formaldehyde Generation in Photooxidation of Isoprene on Iron Oxide Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5120-5127	3.8	5
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	16
209	Catalytic CO Oxidation by Gas-Phase Metal Oxide Clusters. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 9257-9267	2.8	28
208	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
207	Size-Dependent Reactivity of Rhodium Cluster Anions toward Methane. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17035-17042	3.8	11
206	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
205	Direct Conversion of Methane with Carbon Dioxide Mediated by RhVO ₃ Cluster Anions. <i>Angewandte Chemie</i> , 2019 , 131, 17447-17452	3.6	10
204	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
203	Oxidation of Isoprene by Neutral Iron Oxide Nanoclusters in the Gas Phase. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25949-25956	3.8	5
202	Thermal Activation of Methane by Diatomic Vanadium Boride Cations. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2019 , 35, 1014-1020	3.8	5
201	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
200	An Eight-Atom Iridium-Aluminum Oxide Cluster IrAlO Catalytically Oxidizes Six CO Molecules. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7850-7855	6.4	6
199	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
198	The HNO radical anion: A proposed intermediate in diazeniumdiolate synthesis using nitric oxide and alkoxides. <i>European Journal of Mass Spectrometry</i> , 2019 , 25, 82-85	1.1	2
197	Formation of Acetylene in the Reaction of Methane with Iron Carbide Cluster Anions FeC ₃ under High-Temperature Conditions. <i>Angewandte Chemie</i> , 2018 , 130, 2692-2696	3.6	8

196	Vacuum Ultraviolet Ionization-Induced Reaction of Neutral Au ₂ Al ₂ O ₃ Clusters with Methane. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6159-6165	3.8	6
195	Catalytic CO Oxidation by O Mediated by Noble-Metal-Free Cluster Anions Cu VO. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3349-3353	16.4	34
194	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
193	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
192	A breakthrough in direct conversion of methane to oxygenates under mild conditions. <i>Science China Materials</i> , 2018 , 61, 1012-1014	7.1	4
191	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
190	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
189	Catalytic CO Oxidation by O ₂ Mediated by Noble-Metal-Free Cluster Anions Cu ₂ VO ₃ □□	3.6	13
188	Noble-Metal-Free Single-Atom Catalysts CuAl ₄ O ₇ □□□□ For CO Oxidation by O ₂ . <i>Angewandte Chemie</i> , 2018 , 130, 11155-11159	3.6	11
187	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
186	Reactions of sulfur and oxygen containing anions with nitrogen and oxygen atoms: A comparative study. <i>International Journal of Mass Spectrometry</i> , 2018 , 433, 1-6	1.9	5
185	Design and Application of a High-Temperature Linear Ion Trap Reactor. <i>Journal of the American Society for Mass Spectrometry</i> , 2018 , 29, 78-84	3.5	12
184	Consecutive Oxidation of Three H ₂ Molecules by a Gold-Vanadium Oxide Cluster Cation AuVO ₄ +.	2.3	5
183	H ₂ dissociation by Au ¹ -doped closed-shell titanium oxide cluster anions□□ <i>Chinese Journal of Chemical Physics</i> , 2018 , 31, 457-462	0.9	3
182	Coupling of Methane and Carbon Dioxide Mediated by Diatomic Copper Boride Cations. <i>Angewandte Chemie</i> , 2018 , 130, 14330-14334	3.6	6
181	Methane Activation by Gas Phase Atomic Clusters. <i>Accounts of Chemical Research</i> , 2018 , 51, 2603-2610	24.3	70
180	Electron Attachment Reaction Ionization of Gas-Phase Methylglyoxal. <i>Analytical Chemistry</i> , 2018 , 90, 13467-13474	7.8	2
179	Mechanistic Variants in Methane Activation Mediated by Gold(I) Supported on Silicon Oxide Clusters. <i>Chemistry - A European Journal</i> , 2018 , 24, 17506-17512	4.8	6

- 178 Coupling of Methane and Carbon Dioxide Mediated by Diatomic Copper Boride Cations. *Angewandte Chemie - International Edition*, **2018**, 57, 14134-14138 16.4 19
- 177 Noble-Metal-Free Single-Atom Catalysts CuAl O for CO Oxidation by O. *Angewandte Chemie - International Edition*, **2018**, 57, 10989-10993 16.4 34
- 176 Methane Activation by Tantalum Carbide Cluster Anions TaC. *Journal of Physical Chemistry Letters*, **2017**, 8, 605-610 6.4 33
- 175 The Formation of Ti-H Species at Interface Is Lethal to the Efficiency of TiO-Based Dye-Sensitized Devices. *Journal of the American Chemical Society*, **2017**, 139, 2083-2089 16.4 41
- 174 Methane Activation Mediated by Dual Gold Atoms Doped in Aluminium Oxide Cluster Cations Au₂Al₂O₃⁺. *ChemistrySelect*, **2017**, 2, 991-996 1.8 6
- 173 Formation of Gas-Phase Formate in Thermal Reactions of Carbon Dioxide with Diatomic Iron Hydride Anions. *Angewandte Chemie*, **2017**, 129, 4251-4255 3.6 9
- 172 Formation of Gas-Phase Formate in Thermal Reactions of Carbon Dioxide with Diatomic Iron Hydride Anions. *Angewandte Chemie - International Edition*, **2017**, 56, 4187-4191 16.4 39
- 171 Theoretical prediction of the synthesis of 2,3-dihydropyridines through Ir(III)-catalysed reaction of unsaturated oximes with alkenes. *RSC Advances*, **2017**, 7, 5649-5659 3.7
- 170 H Oxidation Mediated by Au-Doped Vanadium Oxide Cluster Cation AuVO: A Comparative Study with AuCeO. *Journal of Physical Chemistry A*, **2017**, 121, 4069-4075 2.8 4
- 169 Titelbild: Formation of Gas-Phase Formate in Thermal Reactions of Carbon Dioxide with Diatomic Iron Hydride Anions (Angew. Chem. 15/2017). *Angewandte Chemie*, **2017**, 129, 4127-4127 3.6
- 168 Does Each Atom Count in the Reactivity of Vanadia Nanoclusters?. *Journal of the American Chemical Society*, **2017**, 139, 342-347 16.4 18
- 167 Liberation of three dihydrogens from two ethene molecules as mediated by the tantalum nitride anion cluster TaN at room temperature. *Physical Chemistry Chemical Physics*, **2017**, 19, 3136-3142 3.6 6
- 166 Metal-mediated catalysis in the gas phase: A review. *Chinese Journal of Catalysis*, **2017**, 38, 1515-1527 11.3 24
- 165 Size-Dependent Reactivity of Nano-Sized Neutral Manganese Oxide Clusters toward Ethylene. *Chemistry - A European Journal*, **2017**, 23, 15820-15826 4.8 9
- 164 A VUV photoionization time-of-flight mass spectrometer for the formation, distribution, and reaction of nano-sized neutral metal oxide clusters. *International Journal of Mass Spectrometry*, **2017**, 422, 98-104 1.9 13
- 163 Chemical Ionization of Large Linear Alkanes and Small Oxidized Volatile Organic Compounds by the Reactions with Atomic Gold Cations. *Analytical Chemistry*, **2017**, 89, 9083-9090 7.8 7
- 162 Reactions of Sulfur- and Oxygen-Containing Anions with Hydrogen Atoms: A Comparative Study. *Journal of Physical Chemistry Letters*, **2017**, 8, 5725-5729 6.4 3
- 161 Formation, distribution, and photoreaction of nano-sized vanadium oxide cluster anions. *International Journal of Mass Spectrometry*, **2016**, 407, 62-68 1.9 16

160	Gold(III) Mediated Activation and Transformation of Methane on Au ¹ -Doped Vanadium Oxide Cluster Cations AuV ₂ O ₆ (.). <i>Journal of the American Chemical Society</i> , 2016 , 138, 9437-43	16.4	39
159	A nine-atom rhodium-aluminum oxide cluster oxidizes five carbon monoxide molecules. <i>Nature Communications</i> , 2016 , 7, 11404	17.4	33
158	Activation of Methane and Ethane as Mediated by the Triatomic Anion HNbN ⁻ Electronic Structure Similarity with a Pt Atom. <i>Angewandte Chemie</i> , 2016 , 128, 5031-5035	3.6	9
157	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
156	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
155	Consecutive H ₂ Oxidation Mediated by Au ₂ VO ₄ ⁺ Clusters. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10452-10459	3.8	10
154	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
153	Activation of Methane Promoted by Adsorption of CO on Mo ₂ C ₂ ⁻ Cluster Anions. <i>Angewandte Chemie</i> , 2016 , 128, 5854-5858	3.6	6
152	Generation of Hydroxyl Radicals in the Reaction of Dihydrogen with AuNbO Cluster Cations. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2730-2734	4.5	5
151	Dehydrogenation of propylene mediated by CeVO ₄ ⁺ : An interesting example for the chemistry of binary Ce ^V transition-metal oxide cluster cations. <i>International Journal of Mass Spectrometry</i> , 2016 , 401, 39-45	1.9	4
150	Methane Activation Mediated by a Series of Cerium-Vanadium Bimetallic Oxide Cluster Cations: Tuning Reactivity by Doping. <i>ChemPhysChem</i> , 2016 , 17, 1112-8	3.2	5
149	Activation of Methane Promoted by Adsorption of CO on Mo ₂ C ₂ (-) Cluster Anions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5760-4	16.4	24
148	Activation and Transformation of Ethane by Au ₂ VO ₃ (+) Clusters with Closed-Shell Electronic Structures. <i>Chemistry - A European Journal</i> , 2016 , 22, 1825-30	4.8	9
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	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
145	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
144	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
143	Photo-Induced Reaction of Ethene Bound to Vanadia Nanoparticles [(V ₂ O ₅) _n O ₂ H ₄ [(n = 200)] in the Gas Phase. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17081-17086	3.8	5

142	Origin of the Different Reactivity of the Triatomic Anions HMoN and ZrNH toward Alkane: Compositions of the Active Orbitals. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 7786-7791	2.8	4
141	Generation of free hydrogen atoms in thermal reaction of ethane with AuNbO ₃ ⁺ cluster cations. <i>International Journal of Mass Spectrometry</i> , 2015 , 381-382, 10-16	1.9	11
140	Methane Activation by Iron-Carbide Cluster Anions FeC ₆ ⁻ . <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2287-91	6.4	36
139	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
138	Stepwise Motion in a Multivalent [2](3)Catenane. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9739-45	16.4	87
137	Gas-phase reaction of CeVO ₅ ⁽⁺⁾ cluster ions with C ₂ H ₄ : the reactivity of cluster bonded peroxides. <i>Dalton Transactions</i> , 2015 , 44, 3128-35	4.3	9
136	Photoelectron imaging spectroscopy of MoC ⁻ and NbN ⁻ diatomic anions: A comparative study. <i>Journal of Chemical Physics</i> , 2015 , 142, 164301	3.9	23
135	Photoelectron Imaging Spectroscopy of AuC ₃ H ⁻ Anions: Four Isomers. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 11265-70	2.8	9
134	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
133	CO Oxidation Promoted by the Gold Dimer in Au ₂ VO ₃ and Au ₂ VO ₄ Clusters. <i>Angewandte Chemie</i> , 2015 , 127, 11886-11890	3.6	11
132	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
131	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
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	Photoelectron Imaging Spectroscopy of ZrO ₂ Diatomic Anion. <i>Chinese Journal of Chemical Physics</i> , 2015 , 28, 452-458	0.9	1
128	Methane activation by diatomic molybdenum carbide cations. <i>Chemistry - A European Journal</i> , 2014 , 20, 4163-9	4.8	28
127	Consecutive oxygen-for-sulfur exchange reactions between vanadium oxide cluster anions and hydrogen sulfide. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 8106-14	2.8	8
126	Gas-phase reaction of CeV ₂ O ₇ ⁺ with C ₂ H ₄ : activation of C-C and C-H bonds. <i>ChemPhysChem</i> , 2014 , 15, 4117-25	3.2	8
125	Thermal Dihydrogen Activation by a Closed-Shell AuCeO ₂ ⁽⁺⁾ Cluster. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3890-4	6.4	39

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	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
122	Oxygen-sulfur exchange and the gas-phase reactivity of cobalt sulfide cluster anions with molecular oxygen. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 8163-9	2.8	7
121	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
120	Thermal Reactions of (V ₂ O ₅) _{nO} (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
119	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
118	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
117	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
116	Thermal methane activation by La(6)O(10)(-) cluster anions. <i>Chemistry - A European Journal</i> , 2014 , 20, 5580-3	4.8	27
115	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
114	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
113	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
112	Reactions of Sc ₂ O ₄ and La ₂ O ₄ Clusters with CO: A comparative study. <i>International Journal of Mass Spectrometry</i> , 2013 , 334, 1-7	1.9	12
111	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
110	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
109	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
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