

Sheng-Gui He

List of Publications by Year in descending order

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249
papers

7,549
citations

46918

47
h-index

85405

71
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258
all docs

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258
times ranked

3076
citing authors

#	ARTICLE	IF	CITATIONS
1	C-H Bond Activation by Oxygen-Centered Radicals over Atomic Clusters. <i>Accounts of Chemical Research</i> , 2012, 45, 382-390.	7.6	249
2	CO Oxidation Catalyzed by Single Gold Atoms Supported on Aluminum Oxide Clusters. <i>Journal of the American Chemical Society</i> , 2014, 136, 14307-14313.	6.6	202
3	Characterization and reactivity of oxygen-centred radicals over transition metal oxide clusters. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1925.	1.3	157
4	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, 15879-15888.	6.6	156
5	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.	1.3	141
6	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, 1932-1943.	6.6	137
7	Ratiometric Fluorescent Sensor Based on Inhibition of Resonance for Detection of Cadmium in Aqueous Solution and Living Cells. <i>Inorganic Chemistry</i> , 2011, 50, 3680-3690.	1.9	127
8	CO Oxidation Promoted by Gold Atoms Supported on Titanium Oxide Cluster Anions. <i>Journal of the American Chemical Society</i> , 2014, 136, 3617-3623.	6.6	121
9	Thermal Reactions of (V ₂ O ₅) _n O ⁺ (n = 1-5) Cluster Anions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 14967-14976.	1.5	120
10	Transition metal oxide clusters with character of oxygen-centered radical: a DFT study. <i>Theoretical Chemistry Accounts</i> , 2010, 127, 449-465.	0.5	117
11	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, 9482-9486.	7.2	115
12	C-H bond activation by nanosized scandium oxide clusters in gas-phase. <i>International Journal of Mass Spectrometry</i> , 2012, 310, 57-64.	0.7	112
13	Room-temperature methane activation by a bimetallic oxide cluster AlVO . <i>Chemical Physics Letters</i> , 2010, 489, 25-29.	1.2	101
14	Hydrogen-atom abstraction from methane by stoichiometric early transition metal oxide cluster cations. <i>Chemical Communications</i> , 2010, 46, 1736.	2.2	101
15	Stepwise Motion in a Multivalent [2](3)Catenane. <i>Journal of the American Chemical Society</i> , 2015, 137, 9739-9745.	6.6	100
16	Methane Activation by Gas Phase Atomic Clusters. <i>Accounts of Chemical Research</i> , 2018, 51, 2603-2610.	7.6	94
17	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.	0.7	92
18	Methane activation by V ₃ PO ₁₀ ⁺ and V ₄ O ₁₀ ⁺ clusters: A comparative study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12223.	1.3	89

#	ARTICLE	IF	CITATIONS
19	Hydrogen-Atom Abstraction from Methane by Stoichiometric Vanadium-Silicon Heteronuclear Oxide Cluster Cations. <i>Chemistry - A European Journal</i> , 2010, 16, 11463-11470.	1.7	83
20	Experimental and Theoretical Study of the Reactions between Vanadium-Silicon Heteronuclear Oxide Cluster Anions with <i>n</i> -Butane. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12271-12279.	1.5	83
21	Experimental and Theoretical Study of the Reactions between Cerium Oxide Cluster Anions and Carbon Monoxide: Size-Dependent Reactivity of Ce _n O _{2n+1} ⁺ (<i>n</i> = 1-21). <i>Journal of Physical Chemistry C</i> , 2011, 115, 13329-13337.	1.5	76
22	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, 2991-2998.	6.6	73
23	C-C Bond Cleavage on Neutral VO ₃ (VO ₂ O ₅) _n Clusters. <i>Journal of the American Chemical Society</i> , 2009, 131, 1057-1066.	6.6	70
24	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, 5991-5994.	7.2	69
25	Methane Activation by Yttrium-Doped Vanadium Oxide Cluster Cations: Local Charge Effects. <i>Chemistry - A European Journal</i> , 2011, 17, 11728-11733.	1.7	68
26	Formation, distribution, and structures of oxygen-rich iron and cobalt oxide clusters. <i>International Journal of Mass Spectrometry</i> , 2009, 281, 72-78.	0.7	67
27	Self-Assembled Hollow Nanospheres Strongly Enhance Photoluminescence. <i>Journal of the American Chemical Society</i> , 2011, 133, 11022-11025.	6.6	67
28	High-Resolution Fourier Transform Spectrum of HDO in the Region 6140-7040 cm ⁻¹ . <i>Journal of Molecular Spectroscopy</i> , 2001, 208, 224-235.	0.4	65
29	Dinitrogen Fixation and Reduction by Ta ₃ N ₃ H _{0,1} ⁺ Cluster Anions at Room Temperature: Hydrogen-Assisted Enhancement of Reactivity. <i>Journal of the American Chemical Society</i> , 2019, 141, 12592-12600.	6.6	65
30	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.	0.4	62
31	Density-functional global optimization of (La ₂ O ₃) _n clusters. <i>Journal of Chemical Physics</i> , 2012, 137, 214311.	1.2	62
32	CO Oxidation Promoted by Gold Atoms Loosely Attached in AuFeO ₃ ⁺ Cluster Anions. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1585-1590.	2.1	58
33	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, 1226-1230.	7.2	57
34	A Facile N≡N Bond Cleavage by the Trinuclear Metal Center in Vanadium Carbide Cluster Anions V ₃ C ₄ ⁺ . <i>Journal of the American Chemical Society</i> , 2020, 142, 10747-10754.	6.6	57
35	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.	0.4	55
36	The Formation of Ti-H Species at Interface Is Lethal to the Efficiency of TiO ₂ -Based Dye-Sensitized Devices. <i>Journal of the American Chemical Society</i> , 2017, 139, 2083-2089.	6.6	55

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37	C ¹³ H Activation on Aluminum-Vanadium Bimetallic Oxide Cluster Anions. Chemistry - A European Journal, 2011, 17, 3449-3457.	1.7	54
38	Activation of Multiple C-H Bonds Promoted by Gold in AuNbO ₃ Clusters. Angewandte Chemie - International Edition, 2013, 52, 2444-2448.	7.2	54
39	High-Resolution Study of the First Hexad of D ₂ O. Journal of Molecular Spectroscopy, 2000, 200, 25-33.	0.4	52
40	High-Resolution Study of the (ν ₁ + 12ν ₂ + ν ₃ = 3) Polyad of Strongly Interacting Vibrational Bands of D ₂ O. Journal of Molecular Spectroscopy, 2000, 204, 216-225.	0.4	52
41	High-Resolution Fourier-Transform Intracavity Laser Absorption Spectroscopy of D ₂ O in the Region of the 4ν ₁ +ν ₃ Band. Journal of Molecular Spectroscopy, 2002, 212, 89-95.	0.4	52
42	Collision-Induced Dissociation and Density Functional Theory Studies of CO Adsorption over Zirconium Oxide Cluster Ions: Oxidative and Nonoxidative Adsorption. Journal of Physical Chemistry A, 2011, 115, 5238-5246.	1.1	51
43	Formation of Gas-Phase Formate in Thermal Reactions of Carbon Dioxide with Diatomic Iron Hydride Anions. Angewandte Chemie - International Edition, 2017, 56, 4187-4191.	7.2	50
44	Reactions of Sulfur Dioxide with Neutral Vanadium Oxide Clusters in the Gas Phase. II. Experimental Study Employing Single-Photon Ionization. Journal of Physical Chemistry A, 2008, 112, 11067-11077.	1.1	48
45	Methane Activation by Tantalum Carbide Cluster Anions Ta ₂ C ₄ ⁻ . Journal of Physical Chemistry Letters, 2017, 8, 605-610.	2.1	48
46	C-N Coupling in N ₂ Fixation by the Ditantalum Carbide Cluster Anions Ta ₂ C ₄ ⁻ . Inorganic Chemistry, 2019, 58, 4701-4705.	1.9	48
47	Density functional study on cage and noncage (Fe ₂ O ₃) _n clusters. Journal of Chemical Physics, 2009, 130, 014303.	1.2	47
48	Ground State Structures of Fe ₂ O ₄ ⁶⁺ Clusters Probed by Reactions with N ₂ . Journal of Physical Chemistry A, 2009, 113, 5302-5309.	1.1	47
49	Methane activation by gold-doped titanium oxide cluster anions with closed-shell electronic structures. Chemical Science, 2016, 7, 4730-4735.	3.7	47
50	Thermal Methane Conversion to Syngas Mediated by Rh ₁ -Doped Aluminum Oxide Cluster Cations RhAl ₃ O ₄ ⁺ . Journal of the American Chemical Society, 2016, 138, 12854-12860.	6.6	47
51	High-Resolution Fourier Transform Spectrum of D ₂ O in the Region Near 0.97 μm. Journal of Molecular Spectroscopy, 2001, 210, 18-27.	0.4	46
52	High resolution vibration-rotation spectrum of the D ₂ O molecule in the region near the 2ν ₁ +ν ₃ absorption band. Molecular Physics, 2001, 99, 931-937.	0.8	45
53	Partial Oxidation of Propylene Catalyzed by VO ₃ Clusters: A Density Functional Theory Study. Journal of Physical Chemistry A, 2008, 112, 5984-5993.	1.1	45
54	Methane Activation by Iron-Carbide Cluster Anions FeC ₆ ⁻ . Journal of Physical Chemistry Letters, 2015, 6, 2287-2291.	2.1	45

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55	Catalytic CO Oxidation by Gas-Phase Metal Oxide Clusters. <i>Journal of Physical Chemistry A</i> , 2019, 123, 9257-9267.	1.1	45
56	Thermal Dihydrogen Activation by a Closed-Shell AuCeO ₂ Cluster. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3890-3894.	2.1	43
57	Noble-Metal-Free Single-Atom Catalysts CuAl ₄ O ₇ for CO Oxidation by O ₂ . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10989-10993.	7.2	43
58	Catalytic CO Oxidation by O ₂ Mediated by Noble-Metal-Free Cluster Anions Cu ₂ VO ₃ and Au ₅ . <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3349-3353.	7.2	42
59	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, 9437-9443.	6.6	41
60	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, 11720-11724.	7.2	40
61	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.	1.5	40
62	Neutral Au ₁ -Doped Cluster Catalysts AuTi ₂ O ₃ for CO Oxidation by O ₂ . <i>Journal of the American Chemical Society</i> , 2019, 141, 2027-2034.	6.6	39
63	Thermal Conversion of Methane to Formaldehyde Promoted by Gold in AuNbO ₃ Cluster Cations. <i>Chemistry - A European Journal</i> , 2015, 21, 6957-6961.	1.7	38
64	Reactions of metal cluster anions with inorganic and organic molecules in the gas phase. <i>Dalton Transactions</i> , 2016, 45, 11471-11495.	1.6	38
65	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, 3731-3741.	1.1	36
66	Experimental and Theoretical Study of the Reactions between Vanadium Oxide Cluster Cations and Water. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2049-2054.	1.1	36
67	A nine-atom rhodium-aluminum oxide cluster oxidizes five carbon monoxide molecules. <i>Nature Communications</i> , 2016, 7, 11404.	5.8	36
68	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, 4947-4951.	7.2	36
69	Dinitrogen Activation by Heteronuclear Metal Carbide Cluster Anions FeTaC ₂ : A 5d Early and 3d Late Transition Metal Strategy. <i>Journal of the American Chemical Society</i> , 2021, 143, 19224-19231.	6.6	36
70	Fourier-transform intra-cavity laser absorption spectroscopy of HOD $\hat{1}/2$ OD=5 overtone. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 3727-3730.	1.3	35
71	On the Study of Resonance Interactions and Splittings in the PH ₃ Molecule: $\hat{1}/2$ 1, $\hat{1}/2$ 3, $\hat{1}/2$ + $\hat{1}/2$ 4, and 2 $\hat{1}/2$ 4 Bands. <i>Journal of Molecular Spectroscopy</i> , 2002, 215, 295-308.	0.4	35
72	A stimulated emission pumping study of the first excited singlet state of germylidene (H _{Tj} ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	1.2	35

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73	Characterization of Mononuclear Oxygen-Centered Radical (O^{\bullet}) in Zr_2O_8 Cluster. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10024-10027.	1.1	34
74	Catalytic Conversion of CH_4 and CO_2 Mediated by Rhodium-Titanium Oxide Anions RhTiO_2 . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13788-13792.	7.2	34
75	Thermal Methane Activation by La_6O_{10} Cluster Anions. <i>Chemistry - A European Journal</i> , 2014, 20, 5580-5583.	1.7	33
76	Methane Activation by Diatomic Molybdenum Carbide Cations. <i>Chemistry - A European Journal</i> , 2014, 20, 4163-4169.	1.7	33
77	Photoelectron imaging spectroscopy of MoC^{\bullet} and NbN^{\bullet} diatomic anions: A comparative study. <i>Journal of Chemical Physics</i> , 2015, 142, 164301.	1.2	33
78	Dinitrogen Activation and Functionalization by Heteronuclear Metal Cluster Anions FeV_2C_2 at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9990-9994.	2.1	33
79	Electronic structure and reactivity of a biradical cluster: Sc_3O_6 . <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10084.	1.3	32
80	Experimental and Theoretical Study of Hydrogen Atom Abstraction from <i>n</i> -Butane by Lanthanum Oxide Cluster Anions. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10245-10250.	1.1	32
81	Formation of Acetylene in the Reaction of Methane with Iron Carbide Cluster Anions FeC_3 under High-Temperature Conditions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2662-2666.	7.2	32
82	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.	1.5	29
83	Structures and Reactivity of Oxygen-Rich Scandium Cluster Anions ScO_3 . <i>ChemPhysChem</i> , 2012, 13, 1282-1288.	1.0	29
84	Activation of Methane Promoted by Adsorption of CO on Mo_2C_2 Cluster Anions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5760-5764.	7.2	29
85	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.	1.2	28
86	Formation, detection, and stability studies of neutral vanadium sulfide clusters. <i>Journal of Chemical Physics</i> , 2007, 126, 194315.	1.2	28
87	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.	7.2	28
88	Activation of dinitrogen by gas-phase species. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 507-520.	0.6	28
89	Metal-mediated catalysis in the gas phase: A review. <i>Chinese Journal of Catalysis</i> , 2017, 38, 1515-1527.	6.9	27
90	Coupling of Methane and Carbon Dioxide Mediated by Diatomic Copper Boride Cations. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14134-14138.	7.2	27

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91	Double-Oxygen-Atom Transfer in Reactions of $Ce_{2m}O_{2m+1}$ ($m=2$) with C_2H_2 . <i>ChemPhysChem</i> , 2011, 12, 2110-2117.	1.0	26
92	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.	1.5	26
93	Hydrogen Atom Abstraction from CH_4 by Nanosized Vanadium Oxide Cluster Cations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24062-24071.	1.5	26
94	Gas-Phase Reactions of Carbon Dioxide with Copper Hydride Anions $Cu_2H_2^+$: Temperature-Dependent Transformation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19379-19384.	1.5	26
95	Does Each Atom Count in the Reactivity of Vanadia Nanoclusters?. <i>Journal of the American Chemical Society</i> , 2017, 139, 342-347.	6.6	25
96	Side-on Coordination of Dinitrogen on a Polynuclear Vanadium Nitride Cluster Anion $[V_5N_5]^+$. <i>Chemistry - A European Journal</i> , 2019, 25, 16523-16527.	1.7	25
97	Recent research progress in the study of catalytic CO oxidation by gas phase atomic clusters. <i>Science China Materials</i> , 2020, 63, 892-902.	3.5	25
98	A Theoretical Study on the Mechanism of C_2H_4 Oxidation over a Neutral V_3O_8 Cluster. <i>ChemPhysChem</i> , 2010, 11, 1718-1725.	1.0	24
99	Synthesis and charge-transporting properties of electron-deficient CN ₂ -fluorene based A copolymers. <i>Polymer Chemistry</i> , 2012, 3, 2170.	1.9	24
100	Reactivity Control of C-H Bond Activation over Vanadium-Silver Bimetallic Oxide Cluster Cations. <i>Chemistry - A European Journal</i> , 2012, 18, 10998-11006.	1.7	24
101	Reactivity of Stoichiometric Lanthanum Oxide Cluster Cations in C-H Bond Activation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17548-17556.	1.5	24
102	Reactivity of Tantalum Carbide Cluster Anions TaC_n^+ ($n=1$) with Dinitrogen. <i>Journal of Physical Chemistry A</i> , 2018, 122, 3489-3495.	1.1	24
103	Interaction of vanadium oxide cluster anions with water: an experimental and theoretical study on reactivity and mechanism. <i>Dalton Transactions</i> , 2012, 41, 5562.	1.6	23
104	Catalytic CO Oxidation by Noble-Metal-Free $Ni_2VO_{4.5}$ Clusters: A CO Self-Promoted Mechanism. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1133-1138.	2.1	23
105	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, 1167-1175.	1.7	22
106	Activity of Atomically Precise Titania Nanoparticles in CO Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8002-8006.	7.2	22
107	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.	1.2	21
108	Multiple CO Oxidation Promoted by Au_2TiO_4 Cluster Anions. <i>Chemistry - A European Journal</i> , 2016, 22, 9024-9029.	1.7	21

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109	Direct Conversion of Methane with Carbon Dioxide Mediated by RhVO ₃ ⁺ Cluster Anions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17287-17292.	7.2	21
110	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.	0.6	20
111	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, 3843-3848.	1.1	20
112	Formation, distribution, and photoreaction of nano-sized vanadium oxide cluster anions. <i>International Journal of Mass Spectrometry</i> , 2016, 407, 62-68.	0.7	20
113	Selective Conversion of Methane by Rh ₁ -Doped Aluminum Oxide Cluster Anions RhAl ₂ O ₄ ⁺ : A Comparison with the Reactivity of PtAl ₂ O ₄ ⁺ . <i>Journal of Physical Chemistry A</i> , 2018, 122, 3950-3955.	1.1	20
114	Size-Dependent Association of Cobalt Deuteride Cluster Anions Co ₃ D _n ⁺ (n = 4) with Dinitrogen. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1956-1963.	1.2	20
115	Reactivity of Neutral Tantalum Sulfide Clusters Ta ₃ Sn (n = 4) with N ₂ . <i>Journal of Physical Chemistry A</i> , 2020, 124, 7749-7755.	1.1	20
116	Classification of V _x O _y Q _z Clusters by $\bar{I}^* = 2xy + zq \sim 5x$. <i>Chinese Journal of Chemical Physics</i> , 2011, 24, 586-596.	0.6	19
117	Recent Progress in Dinitrogen Activation by Gas-Phase Metal Species. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4159-4169.	2.1	19
118	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.	1.2	18
119	Interaction of TiO ⁺ with water: infrared photodissociation spectroscopy and density functional calculations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17126.	1.3	18
120	C-H Bond Activation by Early Transition Metal Carbide Cluster Anion MoC ₃ ⁺ . <i>Chemistry - A European Journal</i> , 2015, 21, 17748-17756.	1.7	18
121	Rhodium chemistry: A gas phase cluster study. <i>Journal of Chemical Physics</i> , 2021, 154, 180901.	1.2	18
122	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.	1.3	17
123	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.	1.5	17
124	C-H bond activation by aluminum oxide cluster anions, an experimental and theoretical study. <i>Dalton Transactions</i> , 2013, 42, 11205.	1.6	17
125	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, 2961-2970.	1.1	17
126	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.	0.7	17

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127	Thermal activation of methane by vanadium boride cluster cations VB_n^{+} ($n = 3-6$). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4641-4645.	1.3	17
128	The Si-H 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.	1.2	16
129	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.	1.2	16
130	Reaction of Cationic Vanadium Oxide Clusters with Ethylene in a Flow Tube Reactor. <i>Chinese Journal of Chemical Physics</i> , 2007, 20, 412-418.	0.6	16
131	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, 8377-8387.	1.1	16
132	Gas-Phase Reactions of Atomic Gold Cations with Linear Alkanes (C ₂ -C ₉). <i>Journal of Physical Chemistry A</i> , 2016, 120, 4285-4293.	1.1	16
133	Size-Dependent Reactivity of Rhodium Cluster Anions toward Methane. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17035-17042.	1.5	16
134	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.	1.2	15
135	Photoreaction Study of Methanol Adsorption Complexes on $VO_2(V_2O_5)_n^{+}$ ($n = 1-3$) Clusters at 355 nm. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18488-18495.	1.5	15
136	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.	1.2	15
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