

## List of Publications by Year in descending order

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136  
docs citations

136  
times ranked

3211  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unexpected structures of the Au <sub>17</sub> gold cluster: the stars are shining. Chemical Communications, 2022, 58, 5785-5788.	4.1	7
2	Evolution of Vibrational Spectra in the Manganese-Silicon Clusters Mn <sub>2</sub> Si <sub>n</sub> , <i>n</i> = 10, 12, and 13, and Cationic [Mn <sub>2</sub> Si <sub>13</sub> ] <sup>+</sup> . Journal of Physical Chemistry A, 2022, 126, 1617-1626.	2.5	7
3	Comparison of Conventional and Nonconventional Hydrogen Bond Donors in Au <sup>+</sup> Complexes. Journal of Physical Chemistry A, 2022, 126, 3880-3892.	2.5	0
4	An octacoordinated Nb atom in the NbAl <sub>8</sub> H <sub>8</sub> <sup>+</sup> cluster. Chemical Communications, 2021, 57, 9518-9521.	4.1	5
5	Argon tagging of doubly transition metal doped aluminum clusters: The importance of electronic shielding. Journal of Chemical Physics, 2021, 154, 054312.	3.0	1
6	Atomic Cluster $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow}\langle \text{mml:msup}\langle \text{mml:mrow}\langle \text{mml:mrow}\langle \text{mml:mrow}\langle \text{mml:mstyle mathvariant="normal"}\langle \text{mml:mrow}\langle \text{mml:mtext}\rangle \text{Au}\langle \text{mml:mtext}\rangle \langle \text{mml:mrow}\langle \text{mml:mrow}\langle \text{mml:mn}\rangle 1$ Is a Strong Broadband Midinfrared Chromophore. Physical Review Letters, 2021, 127, 033002.	7.8	11
7	Infrared action spectroscopy of nitrous oxide on cationic gold and cobalt clusters. Physical Chemistry Chemical Physics, 2021, 23, 329-338.	2.8	8
8	Free electron laser infrared action spectroscopy of nitrous oxide binding to platinum clusters, Pt <sub>n</sub> (N <sub>2</sub> O) <sup>+</sup> . Physical Chemistry Chemical Physics, 2020, 22, 18606-18613.	2.8	11
9	Infrared Study of OCS Binding and Size-Selective Reactivity with Gold Clusters, Au <sub>n</sub> <sup>+</sup> ( <i>n</i> = 1-10). Journal of Physical Chemistry A, 2020, 124, 5389-5401.	2.5	11
10	Hydrogen Adsorption and Dissociation on Al <sub>n</sub> Rh <sub>2</sub> <sup>+</sup> ( <i>n</i> = 1 to 9) Clusters: Steric and Coordination Effects. Journal of Physical Chemistry C, 2020, 124, 7624-7633.	3.1	12
11	Altering CO binding on gold cluster cations by Pd-doping. Nanoscale, 2019, 11, 16130-16141.	5.6	23
12	Dinitrogen Fixation and Reduction by Ta <sub>3</sub> N <sub>3</sub> H <sub>0,1</sub> <sup>+</sup> Cluster Anions at Room Temperature: Hydrogen-Assisted Enhancement of Reactivity. Journal of the American Chemical Society, 2019, 141, 12592-12600.	13.7	65
13	Hydrogen Chemisorption on Doubly Vanadium Doped Aluminum Clusters. Zeitschrift Fur Physikalische Chemie, 2019, 233, 799-812.	2.8	8
14	Two-to-three dimensional transition in neutral gold clusters: The crucial role of van der Waals interactions and temperature. Physical Review Materials, 2019, 3, .	2.4	40
15	Size-Selected Clusters as Model Systems for Catalysis. Topics in Catalysis, 2018, 61, 1-2.	2.8	29
16	Competitive Molecular and Dissociative Hydrogen Chemisorption on Size Selected Doubly Rhodium Doped Aluminum Clusters. Topics in Catalysis, 2018, 61, 62-70.	2.8	20
17	IR Signature of Size-Selective CO <sub>2</sub> Activation on Small Platinum Cluster Anions, Pt <sub>n</sub> <sup>+</sup> ( <i>n</i> =4-7). Angewandte Chemie, 2018, 130, 15038-15042.	2.0	8
18	IR Signature of Size-Selective CO <sub>2</sub> Activation on Small Platinum Cluster Anions, Pt <sub>n</sub> <sup>+</sup> ( <i>n</i> =4-7). Angewandte Chemie - International Edition, 2018, 57, 14822-14826.	13.8	42

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19	Size Dependent H <sub>2</sub> Adsorption on Al <sub>n</sub> Rh <sup>+</sup> ( <i>n</i> = 1–12) Clusters. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18247-18255.	3.1	26
20	Effect of radiative cooling on the size-dependent stability of small boron clusters. <i>Physical Review A</i> , 2018, 98, .	2.5	15
21	Effects of Charge Transfer on the Adsorption of CO on Small Molybdenum-Doped Platinum Clusters. <i>Chemistry - A European Journal</i> , 2017, 23, 4120-4127.	3.3	27
22	Infrared Spectroscopy and Structures of Boron-Doped Silicon Clusters (Si <sub>n</sub> B <sub>m</sub> , <i>n</i> = 3–8, <i>m</i> = 1–2). <i>Journal of Physical Chemistry C</i> , 2017, 121, 9560-9571.	3.1	26
23	Structure and Fluxionality of B <sub>13</sub> <sup>+</sup> Probed by Infrared Photodissociation Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 501-504.	13.8	88
24	Untersuchung der Struktur und Dynamik des B <sub>13</sub> <sup>+</sup> mithilfe der Infrarot-Photodissoziationsspektroskopie. <i>Angewandte Chemie</i> , 2017, 129, 515-519.	2.0	15
25	Liberation of three dihydrogens from two ethene molecules as mediated by the tantalum nitride anion cluster Ta <sub>3</sub> N <sub>2</sub> <sup>+</sup> at room temperature. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3136-3142.	2.8	9
26	Hydrogen Chemisorption on Singly Vanadium-Doped Aluminum Clusters. <i>Chemistry - A European Journal</i> , 2017, 23, 15638-15643.	3.3	24
27	Structural Identification of Doped Silicon Clusters. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2017, , 53-86.	0.6	1
28	InnenrÄ¼cktitelbild: Untersuchung der Struktur und Dynamik des B <sub>13</sub> <sup>+</sup> mithilfe der Infrarot-Photodissoziationsspektroskopie (Angew. Chem. 2/2017). <i>Angewandte Chemie</i> , 2017, 129, 671-671.	2.0	0
29	Structural determination of niobium-doped silicon clusters by far-infrared spectroscopy and theory. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6291-6300.	2.8	40
30	Structure Dependent Magnetic Coupling in Cobalt-Doped Silicon Clusters. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19454-19460.	3.1	15
31	Size-Specific, Dissociative Activation of Carbon Dioxide by Cobalt Cluster Anions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14209-14215.	3.1	36
32	Characterization of neutral boron-silicon clusters using infrared spectroscopy: The case of Si <sub>6</sub> B. <i>International Journal of Mass Spectrometry</i> , 2016, 395, 1-6.	1.5	33
33	Charge-induced dipole vs. relativistically enhanced covalent interactions in Ar-tagged Au-Ag tetramers and pentamers. <i>Journal of Chemical Physics</i> , 2015, 143, 024310.	3.0	33
34	Structural Identification of Gold-Doped Silicon Clusters via Far-Infrared Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10896-10903.	3.1	30
35	Far-IR Spectra and Structures of Small Cationic Ruthenium Clusters: Evidence for Cubic Motifs. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10869-10875.	3.1	12
36	Nature of the interaction between rare gas atoms and transition metal doped silicon clusters: the role of shielding effects. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17584-17591.	2.8	11

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37	Vibrational spectra and structures of Si <sub>n</sub> C clusters (n = 3–8). Physical Chemistry Chemical Physics, 2015, 17, 18961-18970.	2.8	22
38	The Nature of Bonding between Argon and Mixed Gold–Silver Trimers. Angewandte Chemie - International Edition, 2015, 54, 10675-10680.	13.8	58
39	Vibrational spectra and structures of bare and Xe-tagged cationic Si <sub>n</sub> O <sub>m</sub> <sup>+</sup> clusters. Journal of Chemical Physics, 2014, 141, 104313.	3.0	13
40	Structure investigation of Co <sub>x</sub> O <sub>y</sub> + (x=3–6, y=3–8) clusters by IR vibrational spectroscopy and DFT calculations. European Physical Journal D, 2014, 68, 1.	1.3	16
41	Far-IR Spectra of Small Neutral Gold Clusters in the Gas Phase. Zeitschrift Fur Physikalische Chemie, 2014, 228, 337-350.	2.8	44
42	The Geometric Structure of Silver–Doped Silicon Clusters. ChemPhysChem, 2014, 15, 328-336.	2.1	23
43	Structure Assignment, Electronic Properties, and Magnetism Quenching of Endohedrally Doped Neutral Silicon Clusters, Si <sub>n</sub> Co (n = 10–12). Journal of Physical Chemistry A, 2014, 118, 8198-8203.	2.5	40
44	Superoxide Formation on Isolated Cationic Gold Clusters. Angewandte Chemie - International Edition, 2014, 53, 6554-6557.	13.8	33
45	Vibrational spectra and structures of neutral Si <sub>6</sub> X clusters (X = Be, B, C, N, O). Physical Chemistry Chemical Physics, 2014, 16, 22364-22372.	2.8	24
46	Platinum Group Metal Clusters: From Gas-Phase Structures and Reactivities towards Model Catalysts. Chemistry - A European Journal, 2014, 20, 3258-3267.	3.3	69
47	Bildung von Superoxiden an isolierten kationischen Goldclustern. Angewandte Chemie, 2014, 126, 6672-6675.	2.0	8
48	Structures of Platinum Oxide Clusters in the Gas Phase. Journal of Physical Chemistry A, 2013, 117, 1233-1239.	2.5	35
49	Gold Clusters in the Gas Phase. Structure and Bonding, 2013, , 243-278.	1.0	10
50	Small Platinum Cluster Hydrides in the Gas Phase. Journal of Physical Chemistry A, 2013, 117, 8230-8237.	2.5	20
51	Unusual Bonding in Platinum Carbido Clusters. Journal of Physical Chemistry Letters, 2013, 4, 892-896.	4.6	25
52	Incipient chemical bond formation of Xe to a cationic silicon cluster: Vibrational spectroscopy and structure of the Si <sub>4</sub> Xe <sup>+</sup> complex. Chemical Physics Letters, 2013, 557, 49-52.	2.6	13
53	Communication: Structure of magnetic lanthanide clusters from far-IR spectroscopy: Tb <sub>n</sub> <sup>+</sup> (n = 5–9). Journal of Chemical Physics, 2013, 138, 031102.	3.0	15
54	The structures of neutral transition metal doped silicon clusters, Si <sub>n</sub> X (n = 6–9);	3.6	40

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55	Charge Separation Promoted Activation of Molecular Oxygen by Neutral Gold Clusters. <i>Journal of the American Chemical Society</i> , 2013, 135, 1727-1730.	13.7	68
56	N <sub>2</sub> Activation by Neutral Ruthenium Clusters. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12153-12158.	3.1	64
57	Vibrational Spectra and Structures of Neutral Si <sub>m</sub> C <sub>n</sub> Clusters (m + n = 6): Sequential Doping of Silicon Clusters with Carbon Atoms. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1158-1163.	2.5	23
58	Communication: IR spectroscopy of neutral transition metal clusters through thermionic emission. <i>Journal of Chemical Physics</i> , 2013, 139, 121101.	3.0	16
59	Not so loosely bound rare gas atoms: finite-temperature vibrational fingerprints of neutral gold-cluster complexes. <i>New Journal of Physics</i> , 2013, 15, 083003.	2.9	56
60	High Magnetic Moments in Manganese-Doped Silicon Clusters. <i>Chemistry - A European Journal</i> , 2012, 18, 15788-15793.	3.3	66
61	Infrared driven CO oxidation reactions on isolated platinum cluster oxides, Pt <sub>n</sub> O <sub>m</sub> <sup>+</sup> . <i>Faraday Discussions</i> , 2012, 157, 213.	3.2	27
62	Structure determination of neutral MgO clusters-hexagonal nanotubes and cages. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2849.	2.8	100
63	Probing the structures of neutral boron clusters using infrared/vacuum ultraviolet two color ionization: B <sub>11</sub> , B <sub>16</sub> , and B <sub>17</sub> . <i>Journal of Chemical Physics</i> , 2012, 137, 014317.	3.0	105
64	Communication: The structures of small cationic gas-phase platinum clusters. <i>Journal of Chemical Physics</i> , 2012, 136, 211103.	3.0	21
65	Gas-phase structures of neutral silicon clusters. <i>Journal of Chemical Physics</i> , 2012, 136, 064301.	3.0	68
66	Activation of Molecular Oxygen by Anionic Gold Clusters. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4444-4447.	13.8	101
67	Activated Methane on Small Cationic Platinum Clusters. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 817-819.	13.8	68
68	Structure Determination of Anionic Metal Clusters via Infrared Resonance Enhanced Multiple Photon Electron Detachment Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1720-1724.	4.6	42
69	Effects of Coadsorbed Oxygen on the Infrared Driven Decomposition of N <sub>2</sub> O on Isolated Rh <sub>5</sub> <sup>+</sup> Clusters. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 3053-3057.	4.6	39
70	Comment on "Electronic Structures, Vibrational and Thermochemical Properties of Neutral and Charged Niobium Clusters Nb <sub>n</sub> , n = 7-12". <i>Journal of Physical Chemistry A</i> , 2011, 115, 7869-7870.	2.5	5
71	Structural Identification of Caged Vanadium Doped Silicon Clusters. <i>Physical Review Letters</i> , 2011, 107, 173401.	7.8	90
72	Infrared-Induced Reactivity of N <sub>2</sub> O on Small Gas-Phase Rhodium Clusters. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2489-2497.	2.5	57

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73	CO adsorption on neutral iridium clusters. European Physical Journal D, 2011, 63, 231-234.	1.3	11
74	Structural Diversity and Flexibility of MgO Gas-Phase Clusters. Angewandte Chemie - International Edition, 2011, 50, 1716-1719.	13.8	67
75	Probing the structures of gas-phase rhodium cluster cations by far-infrared spectroscopy. Journal of Chemical Physics, 2010, 133, 214304.	3.0	70
76	Far-Infrared Spectra of Yttrium-Doped Gold Clusters Au <sub>n</sub> Y (n=1-9). ChemPhysChem, 2010, 11, 1932-1943.	2.1	35
77	Communications: The structure of Rh <sup>8+</sup> in the gas phase. Journal of Chemical Physics, 2010, 132, 011101.	3.0	55
78	Ferrimagnetic cage-like $Fe_4$ structure determination from infrared dissociation spectroscopy. Physical Review B, 2010, 82, .	3.0	33
79	Intensity-resolved IR multiple photon ionization and fragmentation of C <sub>60</sub> . Journal of Chemical Physics, 2010, 132, 074305.	3.0	63
80	Infrared Induced Reactivity on the Surface of Isolated Size-Selected Clusters: Dissociation of N <sub>2</sub> O on Rhodium Clusters. Journal of the American Chemical Society, 2010, 132, 1448-1449.	13.7	72
81	Disparate Effects of Cu and V on Structures of Exohedral Transition Metal-Doped Silicon Clusters: A Combined Far-Infrared Spectroscopic and Computational Study. Journal of the American Chemical Society, 2010, 132, 15589-15602.	13.7	65
82	Infrared Spectroscopy and Binding Geometries of Oxygen Atoms Bound to Cationic Tantalum Clusters. Journal of Physical Chemistry A, 2010, 114, 9755-9761.	2.5	39
83	Nature of Ar bonding to small Con <sup>+</sup> clusters and its effect on the structure determination by far-infrared absorption spectroscopy. Journal of Chemical Physics, 2009, 130, 034306.	3.0	54
84	Vibrational spectroscopy of neutral silicon clusters via far-IR-VUV two color ionization. Journal of Chemical Physics, 2009, 131, 171105.	3.0	71
85	The adsorption of CO on transition metal clusters: A case study of cluster surface chemistry. Surface Science, 2009, 603, 1427-1433.	1.9	103
86	Structures of Silicon Cluster Cations in the Gas Phase. Journal of the American Chemical Society, 2009, 131, 1115-1121.	13.7	90
87	Probing C-O bond activation on gas-phase transition metal clusters: Infrared multiple photon dissociation spectroscopy of Fe, Ru, Re, and W cluster CO complexes. Journal of Chemical Physics, 2009, 131, 184706.	3.0	36
88	Tuning the Geometric Structure by Doping Silicon Clusters. ChemPhysChem, 2008, 9, 703-706.	2.1	51
89	Fluxionality and Aromaticity in Small Yttrium-Doped Gold Clusters. ChemPhysChem, 2008, 9, 2471-2474.	2.1	38
90	Molecular adsorption of H <sub>2</sub> on small cationic nickel clusters. Physical Chemistry Chemical Physics, 2008, 10, 5743.	2.8	22

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91	The adsorption of CO on group 10 (Ni, Pd, Pt) transition-metal clusters. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 6144.	2.8	92
92	Structures of Neutral Au <sub>7</sub> , Au <sub>19</sub> , and Au <sub>20</sub> Clusters in the Gas Phase. <i>Science</i> , 2008, 321, 674-676.	12.6	596
93	The Effect of Charge on CO Binding in Rhodium Carbonyls: From Bridging to Terminal CO. <i>Journal of the American Chemical Society</i> , 2008, 130, 2126-2127.	13.7	39
94	H <sub>2</sub> Adsorption on 3d Transition Metal Clusters: A Combined Infrared Spectroscopy and Density Functional Study. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1139-1149.	2.5	79
95	The far-infrared spectra of neutral and cationic niobium clusters: Nb <sub>50</sub> <sup>+</sup> to Nb <sub>90</sub> <sup>+</sup> . <i>Journal of Chemical Physics</i> , 2007, 127, 234306.	3.0	61
96	Experimental vibrational spectra of gas-phase tantalum cluster cations. <i>Journal of Chemical Physics</i> , 2007, 127, 234307.	3.0	27
97	Chapter 8 Vibrational spectroscopy of gas-phase clusters and complexes. <i>Chemical Physics of Solid Surfaces</i> , 2007, , 327-375.	0.3	37
98	Argon Physisorption as Structural Probe for Endohedrally Doped Silicon Clusters. <i>Physical Review Letters</i> , 2007, 99, 063401.	7.8	85
99	Hydrogen-Induced Transition from Dissociative to Molecular Chemisorption of CO on Vanadium Clusters. <i>Journal of the American Chemical Society</i> , 2007, 129, 2516-2520.	13.7	43
100	Controlling the Bonding of CO on Cobalt Clusters by Coadsorption of H <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5317-5320.	13.8	18
101	Far-Infrared Spectroscopy of Small Neutral Silver Clusters. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8060-8063.	2.5	34
102	Size and charge effects on the binding of CO to late transition metal clusters. <i>Journal of Chemical Physics</i> , 2006, 124, 194305.	3.0	108
103	Far-Infrared spectroscopy of isolated transition metal clusters. <i>European Physical Journal D</i> , 2005, 34, 83-88.	1.3	74
104	Isomer selective infrared spectroscopy of neutral metal clusters. <i>Journal of Chemical Physics</i> , 2005, 122, 091105.	3.0	53
105	Structure determination of small vanadium clusters by density-functional theory in comparison with experimental far-infrared spectra. <i>Journal of Chemical Physics</i> , 2005, 122, 124302.	3.0	74
106	Gold Cluster Carbonyls: Vibrational Spectroscopy of the Anions and the Effects of Cluster Size, Charge, and Coverage on the CO Stretching Frequency. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23935-23940.	2.6	109
107	Direct observation of size dependent activation of NO on gold clusters. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3906.	2.8	42
108	Gold Cluster Carbonyls: Saturated Adsorption of CO on Gold Cluster Cations, Vibrational Spectroscopy, and Implications for Their Structures. <i>Journal of the American Chemical Society</i> , 2005, 127, 8416-8423.	13.7	172

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109	Infrared spectroscopy of water adsorption on vanadium cluster cations ( $V_x^+$ ; $x=3-18$ ). Chemical Physics Letters, 2004, 392, 409-414.	2.6	26
110	Structure Determination of Isolated Metal Clusters via Far-Infrared Spectroscopy. Physical Review Letters, 2004, 93, 023401.	7.8	161
111	Photoionization of $Nb_3CO$ and $Nb_3(CO)_2$ : Is CO Molecularly or Dissociatively Adsorbed on Niobium?. Journal of Physical Chemistry A, 2004, 108, 964-970.	2.5	26
112	Size and Charge Effects on the Binding of CO to Small Isolated Rhodium Clusters. Journal of Physical Chemistry B, 2004, 108, 14591-14598.	2.6	105
113	Infrared multiple photon dissociation spectroscopy of transition metal oxide cluster cations. European Physical Journal D, 2003, 24, 69-72.	1.3	59
114	Infrared Spectroscopy of Niobium Oxide Cluster Cations in a Molecular Beam: Identifying the Cluster Structures. Journal of the American Chemical Society, 2003, 125, 3659-3667.	13.7	98
115	Vibrational Spectroscopy of CO in Gas-Phase Rhodium Cluster-CO Complexes. Journal of the American Chemical Society, 2003, 125, 11184-11185.	13.7	53
116	The Structures of Vanadium Oxide Cluster-Ethene Complexes. A Combined IR Multiple Photon Dissociation Spectroscopy and DFT Calculation Study. Journal of the American Chemical Society, 2003, 125, 15716-15717.	13.7	57
117	Structure Determination of Gas-Phase Niobium and Tantalum Carbide Nanocrystals via Infrared Spectroscopy. Physical Review Letters, 2002, 89, 013401.	7.8	26
118	Stability and reactivity patterns of medium-sized vanadium oxide cluster cations $V_xO_y^+$ ( $x=3-14$ ). Physical Chemistry Chemical Physics, 2002, 4, 2621-2628.	2.8	36
119	Molybdenum doped bismuth oxide clusters and their reactivity towards ethene: comparison with pure bismuth oxide clusters. Chemical Physics Letters, 2002, 359, 360-366.	2.6	8
120	Antimony and bismuth oxide cluster ions. Physical Chemistry Chemical Physics, 2001, 3, 3034-3041.	2.8	20
121	Interaction of Bismuth Oxide Cluster Cations with Alkenes and Molecular Oxygen: $Bi_4O_6^+$ , a Possible Reactive Center for Alkene Oxidation. Journal of Physical Chemistry A, 2000, 104, 6979-6982.	2.5	34
122	Tertiarybutylhydrazine: a new precursor for the MOVPE of Group III-nitrides. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 59, 20-23.	3.5	19