

Xiao-Nan Wu Or Xiaonan Wu

List of Publications by Year in descending order

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docs citations

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times ranked

698
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	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
3	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
4	Hydrogen-atom abstraction from methane by stoichiometric early transition metal oxide cluster cations. <i>Chemical Communications</i> , 2010, 46, 1736.	2.2	101
5	Methane activation by V ₃ PO ₁₀ ^{TM+} and V ₄ O ₁₀ ^{TM+} clusters: A comparative study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12223.	1.3	89
6	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
7	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 = 1-21). <i>Journal of Physical Chemistry C</i> , 2011, 115, 13329-13337.	1.5	76
8	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
9	Isolation of a germanium(II) cation and a germylene iron carbonyl complex utilizing an imidazolin-2-iminato ligand. <i>Dalton Transactions</i> , 2015, 44, 10952-10956.	1.6	56
10	C-H Activation on Aluminum-Vanadium Bimetallic Oxide Cluster Anions. <i>Chemistry - A European Journal</i> , 2011, 17, 3449-3457.	1.7	54
11	Activation of Multiple C-H Bonds Promoted by Gold in AuNbO ₃ ⁺ Clusters. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2444-2448.	7.2	54
12	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, 5238-5246.	1.1	51
13	A Tin Analogue of Carbenoid: Isolation and Reactivity of a Lithium Bis(imidazolin-2-imino)stannyleneid. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6983-6987.	7.2	37
14	On the Role of the Electronic Structure of the Heteronuclear Oxide Cluster [Ga ₂ Mg ₂ O ₅] ⁺ in the Thermal Activation of Methane and Ethane: An Unusual Doping Effect. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5074-5078.	7.2	36
15	Efficient Room-Temperature, Au ⁺ -Mediated Coupling of a Carbene Ligand with Methane To Generate C ₂ H _x (x = 4, 6). <i>Angewandte Chemie - International Edition</i> , 2016, 55, 441-444.	7.2	32
16	Structures and Reactivity of Oxygen-Rich Scandium Cluster Anions ScO ₃₋₅ ⁻ . <i>ChemPhysChem</i> , 2012, 13, 1282-1288.	1.0	29
17	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
18	Distinct Mechanistic Differences in the Hydrogen-Atom Transfer from Methane and Water by the Heteronuclear Oxide Cluster [Ga ₂ MgO ₄] ⁺ . <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12298-12302.	7.2	25

#	ARTICLE	IF	CITATIONS
19	Thermal Ethane Activation by Bare $[V_2O_5]$ and $[Nb_2O_5]$ Cluster Cations: on the Origin of Their Different Reactivities. <i>Chemistry - A European Journal</i> , 2014, 20, 6672-6677.	1.7	24
20	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
21	Striking Doping Effects on Thermal Methane Activation Mediated by the Heteronuclear Metal Oxides $[XAlO_4]$ ($X=V, Nb, \text{ and } Ta$). <i>Chemistry - A European Journal</i> , 2017, 23, 788-792.	1.7	21
22	On the Mechanisms of Hydrogen Atom Transfer from Water to the Heteronuclear Oxide Cluster $[Ga_2Mg_2O_5]$: Remarkable Electronic Structure Effects. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11861-11864.	7.2	19
23	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.	0.6	13
24	Theoretical study of partial oxidation of ethylene by vanadium trioxide cluster cation. <i>Science Bulletin</i> , 2009, 54, 2814-2821.	4.3	12
25	Carbon Atom Extrusion from Halobenzenes and Its Coupling with a Methylene Ligand to Form Acetylene. <i>Chemistry - A European Journal</i> , 2015, 21, 9629-9631.	1.7	12
26	Reactions of Transition-Metal Carbyne Cations with Ethylene in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2628-2633.	1.1	12
27	Highly regioselective hydride transfer, oxidative dehydrogenation, and hydrogen-atom abstraction in the thermal gas-phase chemistry of $[Zn(OH)_3H_8]$. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26617-26623.	1.3	11
28	Unravelling Mechanistic Aspects of the Gas-Phase Ethanol Conversion: An Experimental and Computational Study on the Thermal Reactions of MO_2 ($M=Mo, W$) with Ethanol. <i>Chemistry - A European Journal</i> , 2016, 22, 3077-3083.	1.7	8
29	C/C Exchange in Activation/Coupling Reaction of Acetylene and Methane Mediated by Os : A Comparison with Ir , Pt , and Au . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8346-8351.	2.1	7
30	Quadruple C-H Bond Activations of Methane by Dinuclear Rhodium Carbide Cation $[Rh_2C_3]$. <i>Jacs Au</i> , 2021, 1, 1631-1638.	3.6	6
31	Dicarbonyls of Carbon and Methylidyne Cations. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2903-2910.	1.1	5
32	The Reactive Sites of Methane Activation: A Comparison of IrC_3^+ with PtC_3^+ . <i>Molecules</i> , 2021, 26, 6028.	1.7	3
33	Stripping the Carbon Atom of Methyl Halide by a Cationic Holmium Complex: A Gas-Phase Study. <i>Chemistry - A European Journal</i> , 2015, 21, 14305-14308.	1.7	2
34	Conformation Changes of Enkephalin in Coordination with Pb^{2+} Investigated by Gas Phase Hydrogen/Deuterium Exchange Mass Spectrometry Combined with Theoretical Calculations. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 572-578.	1.3	1
35	The cycloaddition reaction of ethylene and methane mediated by Ir^+ to generate a half-sandwich structure $IrHCp^+$. <i>Chinese Chemical Letters</i> , 2023, 34, 107196.	4.8	1
36	Infrared photodissociation spectroscopic and theoretical study of HnC_4O^+ ($n=1, 2$) cation clusters in the gas phase. <i>Molecular Physics</i> , 2021, 119, e1879301.	0.8	0

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37	Iridium Dimer Anion-Mediated C≡C Triple Bond Cleavage and Successive Dehydrogenation of Acetylene in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1711-1717.	1.1	0