

# Xiao-Nan Wu Or Xiaonan Wu

## List of Publications by Year in descending order

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37  
papers

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citations

361045

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360668

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g-index

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all docs

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docs citations

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times ranked

698  
citing authors

#	ARTICLE	IF	CITATIONS
1	The cycloaddition reaction of ethylene and methane mediated by Ir <sup>+</sup> to generate a half-sandwich structure IrHCp <sup>+</sup> . Chinese Chemical Letters, 2023, 34, 107196.	4.8	1
2	Conformation Changes of Enkephalin in Coordination with Pb <sup>2+</sup> Investigated by Gas Phase Hydrogen/Deuterium Exchange Mass Spectrometry Combined with Theoretical Calculations. Chemical Research in Chinese Universities, 2022, 38, 572-578.	1.3	1
3	Iridium Dimer Anion-Mediated C≡C Triple Bond Cleavage and Successive Dehydrogenation of Acetylene in the Gas Phase. Journal of Physical Chemistry A, 2022, 126, 1711-1717.	1.1	0
4	Infrared photodissociation spectroscopic and theoretical study of HnC4O <sup>+</sup> (n=1, 2) cation clusters in the gas phase. Molecular Physics, 2021, 119, e1879301.	0.8	0
5	Quadruple C-H Bond Activations of Methane by Dinuclear Rhodium Carbide Cation [Rh <sub>2</sub> C <sub>3</sub> ] <sup>+</sup> . JACS, 2021, 1, 1631-1638.	3.6	6
6	The Reactive Sites of Methane Activation: A Comparison of IrC <sub>3</sub> <sup>+</sup> with PtC <sub>3</sub> <sup>+</sup> . Molecules, 2021, 26, 6028.	1.7	3
7	C/C Exchange in Activation/Coupling Reaction of Acetylene and Methane Mediated by Os <sup>+</sup> : A Comparison with Ir <sup>+</sup> , Pt <sup>+</sup> , and Au <sup>+</sup> . Journal of Physical Chemistry Letters, 2020, 11, 8346-8351.	2.1	7
8	Reactions of Transition-Metal Carbyne Cations with Ethylene in the Gas Phase. Journal of Physical Chemistry A, 2020, 124, 2628-2633.	1.1	12
9	Dicarbonyls of Carbon and Methylidyne Cations. Journal of Physical Chemistry A, 2017, 121, 2903-2910.	1.1	5
10	Striking Doping Effects on Thermal Methane Activation Mediated by the Heteronuclear Metal Oxides [XAlO <sub>4</sub> ] <sup>+</sup> (X=V, Nb, and Ta). Chemistry - A European Journal, 2017, 23, 788-792.	1.7	21
11	A Tin Analogue of Carbenoid: Isolation and Reactivity of a Lithium Bis(imidazolin-2-ylidene)stannylenoid. Angewandte Chemie - International Edition, 2016, 55, 6983-6987.	7.2	37
12	Efficient Room-Temperature, Au <sup>+</sup> -Mediated Coupling of a Carbene Ligand with Methane To Generate C <sub>2</sub> H <sub>3</sub> (X=4, 6). Angewandte Chemie - International Edition, 2016, 55, 441-444.	7.2	32
13	Unravelling Mechanistic Aspects of the Gas-Phase Ethanol Conversion: An Experimental and Computational Study on the Thermal Reactions of MO <sub>2</sub> <sup>+</sup> (M=Mo, W) with Ethanol. Chemistry - A European Journal, 2016, 22, 3077-3083.	1.7	8
14	Distinct Mechanistic Differences in the Hydrogen-Atom Transfer from Methane and Water by the Heteronuclear Oxide Cluster [Ga <sub>2</sub> MgO <sub>4</sub> ] <sup>+</sup> . Angewandte Chemie - International Edition, 2015, 54, 12298-12302.	7.2	25
15	On the Role of the Electronic Structure of the Heteronuclear Oxide Cluster [Ga <sub>2</sub> Mg <sub>2</sub> O <sub>5</sub> ] <sup>+</sup> in the Thermal Activation of Methane and Ethane: An Unusual Doping Effect. Angewandte Chemie - International Edition, 2015, 54, 5074-5078.	7.2	36
16	Stripping the Carbon Atom of Methyl Halide by a Cationic Holmium Complex: A Gas-Phase Study. Chemistry - A European Journal, 2015, 21, 14305-14308.	1.7	2
17	On the Mechanisms of Hydrogen-Atom Transfer from Water to the Heteronuclear Oxide Cluster [Ga <sub>2</sub> Mg <sub>2</sub> O <sub>5</sub> ] <sup>+</sup> : Remarkable Electronic Structure Effects. Angewandte Chemie - International Edition, 2015, 54, 11861-11864.	7.2	19
18	Isolation of a germanium(II) cation and a germylene iron carbonyl complex utilizing an imidazolin-2-iminato ligand. Dalton Transactions, 2015, 44, 10952-10956.	1.6	56

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19	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
20	Highly regioselective hydride transfer, oxidative dehydrogenation, and hydrogen-atom abstraction in the thermal gas-phase chemistry of $[\text{Zn}(\text{OH})_3\text{H}_8]^+$ . <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26617-26623.	1.3	11
21	Thermal Ethane Activation by Bare $[\text{V}_2\text{O}_5]^+$ and $[\text{Nb}_2\text{O}_5]^+$ Cluster Cations: on the Origin of Their Different Reactivities. <i>Chemistry - A European Journal</i> , 2014, 20, 6672-6677.	1.7	24
22	Hydrogen Atom Abstraction from $\text{CH}_4$ by Nanosized Vanadium Oxide Cluster Cations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24062-24071.	1.5	26
23	Reactivity of Oxygen Radical Anions Bound to Scandia Nanoparticles in the Gas Phase: $\text{C}_i\text{H}$ Bond Activation. <i>Chemistry - A European Journal</i> , 2014, 20, 1167-1175.	1.7	22
24	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
25	Activation of Multiple $\text{C}_i\text{H}$ Bonds Promoted by Gold in $\text{AuNbO}_3^+$ Clusters. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2444-2448.	7.2	54
26	$\text{C-H}$ Bond Activation by Oxygen-Centered Radicals over Atomic Clusters. <i>Accounts of Chemical Research</i> , 2012, 45, 382-390.	7.6	249
27	Structures and Reactivity of Oxygen-Rich Scandium Cluster Anions $\text{ScO}_3^{5-}$ . <i>ChemPhysChem</i> , 2012, 13, 1282-1288.	1.0	29
28	$\text{C-H}$ bond activation by nanosized scandium oxide clusters in gas-phase. <i>International Journal of Mass Spectrometry</i> , 2012, 310, 57-64.	0.7	112
29	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
30	Experimental and Theoretical Study of the Reactions between Cerium Oxide Cluster Anions and Carbon Monoxide: Size-Dependent Reactivity of $\text{Ce}_n\text{O}_{2n+1}^+$ ( $n = 1-21$ ). <i>Journal of Physical Chemistry C</i> , 2011, 115, 13329-13337.	1.5	76
31	$\text{C}_i\text{H}$ Activation on Aluminum-Vanadium Bimetallic Oxide Cluster Anions. <i>Chemistry - A European Journal</i> , 2011, 17, 3449-3457.	1.7	54
32	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
33	Hydrogen-atom abstraction from methane by stoichiometric early transition metal oxide cluster cations. <i>Chemical Communications</i> , 2010, 46, 1736.	2.2	101
34	Active sites of stoichiometric cerium oxide cations ( $\text{Ce}_m\text{O}_{2m}^+$ ) probed by reactions with carbon monoxide and small hydrocarbon molecules. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3984.	1.3	141
35	Methane activation by $\text{V}_3\text{PO}_{10}^{\text{TM}+}$ and $\text{V}_4\text{O}_{10}^{\text{TM}+}$ clusters: A comparative study. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12223.	1.3	89
36	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

#	ARTICLE	IF	CITATIONS
37	Theoretical study of partial oxidation of ethylene by vanadium trioxide cluster cation. Science Bulletin, 2009, 54, 2814-2821.	4.3	12