Yuntao Xu

List of Publications by Year
in descending order

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28	557	687363 13	610901 24
papers	citations	h-index	g-index

29	29	29	579
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chemical activation of oxygen molecule by quantum electronic state selected vanadium cation: observation of spinâ€“orbit state effects. Molecular Physics, 2021, 119, e1767309.	1.7	4
2	Quantum electronic control on chemical activation of methane by collision with spinâ€“orbit state selected vanadium cation. Physical Chemistry Chemical Physics, 2021, 23, 273-286.	2.8	7
3	Chemical Activation of Water Molecule by Collision with Spinâ€“Orbit-State-Selected Vanadium Cation: Quantum-Electronic-State Control of Chemical Reactivity. Journal of Physical Chemistry A, 2020, 124, 8884-8896.	2.5	6
4	Chemical Activation of a Deuterium Molecule by Collision with a Quantum Electronic State-Selected Vanadium Cation. Journal of Physical Chemistry A, 2019, 123, 5937-5944.	2.5	5
5	Homogeneous ice nucleation rates and crystallization kinetics in transiently-heated, supercooled water films from 188 K to 230 K. Journal of Chemical Physics, 2019, 150, 204509.	3.0	14
6	Quantum Spinâ€“Orbit Electronic State Selection of Atomic Transition Metal Vanadium Cation for Chemical Reactivity Studies. Journal of Physical Chemistry A, 2019, 123, 2310-2319.	2.5	8
7	Quantum state control on the chemical reactivity of a transition metal vanadium cation in carbon dioxide activation. Physical Chemistry Chemical Physics, 2019, 21, 6868-6877.	2.8	10
8	Quantum-vibrational-state-selected Integral Cross Sections and Product Branching Ratios for the Ion-molecule Reactions of N₂ ⁺(X²Î£_g ⁺;) Tj ETQq0 0 0 rgBT /Overlock H₂O⁺(X²B₁: v₁) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 452 Td (<sup>+ in the Collision Energy R. Astrophysical Journal, 2018, 861, 17.	4.5	8
9	Quantum-State-Selected Integral Cross Sections and Branching Ratios for the Ionâ€“Molecule Reaction of N2+(X2Î£g+: Î½+ = 0â€“2) + C2H4 in the Collision Energy Range of 0.05â€“10.00 eV. Journal of Physical Chemistry A, 2018, 122, 6491-6499.	2.5	8
10	Isotopic and quantum-rovibrational-state effects for the ionâ€“molecule reaction in the collision energy range of 0.03â€“10.00 eV. Physical Chemistry Chemical Physics, 2017, 19, 8694-8705.	2.8	11
11	A quantum-rovibrational-state-selected study of the reaction in the collision energy range of 0.05â€“10.00 eV: translational, rotational, and vibrational energy effects. Physical Chemistry Chemical Physics, 2017, 19, 9778-9789.	2.8	12
12	Homogeneous Nucleation of Ice in Transiently-Heated, Supercooled Liquid Water Films. Journal of Physical Chemistry Letters, 2017, 8, 5736-5743.	4.6	16
13	High-Resolution Threshold Photoelectron Spectroscopy by Vacuum Ultraviolet Laser Velocity-Map-Imaging Method. Chinese Journal of Chemical Physics, 2016, 29, 59-69.	1.3	1
14	ABSOLUTE INTEGRAL CROSS SECTIONS FOR THE STATE-SELECTED IONâ€“MOLECULE REACTION ; eV. Astrophysical Journal, 2016, 827, 17.	4.5	10
15	Growth rate of crystalline ice and the diffusivity of supercooled water from 126 to 262 K. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14921-14925.	7.1	120
16	A nanosecond pulsed laser heating system for studying liquid and supercooled liquid films in ultrahigh vacuum. Journal of Chemical Physics, 2016, 144, 164201.	3.0	11
17	Comparison of experimental and theoretical quantum-state-selected integral cross-sections for the H₂O⁺ + H₂ (D₂) reactions in the collision energy range of 0.04â€“10.00 eV. Physical Chemistry Chemical Physics, 2016, 18, 22509-22515.	2.8	26
18	Complete Wetting of Pt(111) by Nanoscale Liquid Water Films. Journal of Physical Chemistry Letters, 2016, 7, 541-547.	4.6	12

#	Article	IF	Citations
19	Communication: The origin of rotational enhancement effect for the reaction of H2O+ + H2 (D2). Journal of Chemical Physics, 2014, 140, 011102.	3.0	46
20	ABSOLUTE INTEGRAL CROSS SECTIONS AND PRODUCT BRANCHING RATIOS FOR THE VIBRATIONALLY SELECTED ION-MOLECULE REACTIONS: N$_{2}^{+}$(X²Î£$_{m) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 Td (g}^	4.0	69
21	The translational, rotational, and vibrational energy effects on the chemical reactivity of water cation H2O+(Xâ€‰2B1) in the collision with deuterium molecule D2. Journal of Chemical Physics, 2013, 139, 024203.	3.0	33
22	Communication: Rovibrationally selected absolute total cross sections for the reaction H2O+(X2B1; v1+v2+v3+ = 000; N+Ka+Kc+) + D2: Observation of the rotational enhancement effect. Journal of Chemical Physics, 2012, 137, 241101.	3.0	48
23	Rovibrationally selected ion-molecule collision study using the molecular beam vacuum ultraviolet laser pulsed field ionization-photoion method: Charge transfer reaction of N2+(Xâ€ˆ2Î£g+; v+ = 0â€“2;) Tj ETQq1 1 0.784314 rgB	3.0	38
24	High-resolution threshold photoelectron study of the propargyl radical by the vacuum ultraviolet laser velocity-map imaging method. Journal of Chemical Physics, 2011, 135, 224304.	3.0	23
25	A vacuum-ultraviolet laser pulsed field ionization-photoelectron study of sulfur monoxide (SO) and its cation (SO+). Journal of Chemical Physics, 2011, 134, 144304.	3.0	13
26	Communication: Rovibrationally selected study of the N2+(X; v+ = 1, N+ = 0â€“8) + Ar charge transfer reaction using the vacuum ultraviolet laser pulsed field ionization-photoion method. Journal of Chemical Physics, 2011, 134, 201105.	3.0	24
27	Dissociative photoionization of isoprene: experiments and calculations. Journal of Mass Spectrometry, 2009, 44, 404-409.	1.6	24
28	Mass spectra of methyl acetate and ethyl formate. Chemical Physics Letters, 2009, 468, 153-157.	2.6	6