

Guorong Wu

List of Publications by Year in descending order

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63
papers

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430442

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times ranked

1028
citing authors

#	ARTICLE	IF	CITATIONS
1	Retainable Bandgap Narrowing and Enhanced Photoluminescence in Mn-Doped and Undoped Cs ₂ NaBiCl ₆ Double Perovskites by Pressure Engineering. <i>Advanced Optical Materials</i> , 2022, 10, 2101892.	3.6	13
2	Infrared spectroscopic signature of the structural diversity of the water heptamer. <i>Cell Reports Physical Science</i> , 2022, 3, 100748.	2.8	9
3	Photodissociation dynamics of CO ₂ + $h\nu \rightarrow \text{CO}(X^1\Sigma^+)$ + O(1D ₂) via the 3P ₁ u state. <i>Journal of Chemical Physics</i> , 2022, 156, 054302.	1.2	4
4	Ligand-Induced Tuning of the Electronic Structure of Rhombus Tetraboron Cluster. <i>ChemPhysChem</i> , 2022, 23, e202200060.	1.0	2
5	Infrared Spectroscopy of Stepwise Hydration Motifs of Sulfur Dioxide. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5654-5659.	2.1	8
6	Aerosol mass spectrometry of neutral species based on a tunable vacuum ultraviolet free electron laser. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 16484-16492.	1.3	5
7	Direct Observation of the C + S ₂ Channel in CS ₂ Photodissociation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 844-849.	2.1	10
8	Ultrafast decay dynamics of electronically excited 2-ethylpyrrole. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17625-17633.	1.3	6
9	Vibrational Signature of Dynamic Coupling of a Strong Hydrogen Bond. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2259-2265.	2.1	12
10	Harvesting High-Quality White-Light Emitting and Remarkable Emission Enhancement in One-Dimensional Halide Perovskites Upon Compression. <i>Jacs Au</i> , 2021, 1, 459-466.	3.6	11
11	Ultrafast optical switching to a metallic state via photoinduced Mott transition in few-layer MoS ₂ under hydrostatic pressure. <i>Physical Review B</i> , 2021, 103, .	1.1	5
12	Photodissociation Dynamics of H ₂ O via the $\sigma^{*1/4} \left(\text{B}^2 \right)$ Electronic State. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3622-3630.	1.1	1
13	Three body photodissociation of the water molecule and its implications for prebiotic oxygen production. <i>Nature Communications</i> , 2021, 12, 2476.	5.8	15
14	Transformation between the Dark and Bright Self-Trapped Excitons in Lead-Free Double-Perovskite Cs ₂ NaBiCl ₆ under Pressure. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7285-7292.	2.1	27
15	Strong isotope effect in the VUV photodissociation of HOD: A possible origin of D/H isotope heterogeneity in the solar nebula. <i>Science Advances</i> , 2021, 7, .	4.7	5
16	Rotational and nuclear-spin level-dependent photodissociation dynamics of H ₂ S. <i>Nature Communications</i> , 2021, 12, 4459.	5.8	14
17	Observation of Carbon-Carbon Coupling Reaction in Neutral Transition-Metal Carbonyls. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1012-1017.	2.1	12
18	Vibrationally excited molecular hydrogen production from the water photochemistry. <i>Nature Communications</i> , 2021, 12, 6303.	5.8	15

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19	Photodissociation dynamics of H ₂ O and D ₂ O <i>via</i> the D ₁ (¹ A ₁) electronic state. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4379-4386.	1.3	4
20	Water Photolysis and Its Contributions to the Hydroxyl Dayglow Emissions in the Atmospheres of Earth and Mars. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9086-9092.	2.1	19
21	Infrared spectroscopic study of hydrogen bonding topologies in the smallest ice cube. <i>Nature Communications</i> , 2020, 11, 5449.	5.8	35
22	Electronically Excited OH Super-rotors from Water Photodissociation by Using Vacuum Ultraviolet Free-Electron Laser Pulses. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7617-7623.	2.1	17
23	Pressure Manipulation of Interlayer Interactions and Ultrafast Carrier Dynamics in Few-Layer MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 11183-11192.	1.5	6
24	Ultraviolet photochemistry of ethane: implications for the atmospheric chemistry of the gas giants. <i>Chemical Science</i> , 2020, 11, 5089-5097.	3.7	10
25	Infrared spectroscopy of neutral water clusters at finite temperature: Evidence for a noncyclic pentamer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15423-15428.	3.3	55
26	Pressure Engineered Optical Properties and Carrier Dynamics of FAPbBr ₃ Nanocrystals Encapsulated by Siliceous Nanosphere. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14390-14399.	1.5	9
27	Pressure-Induced Emission Enhancements of Mn ²⁺ -Doped Cesium Lead Chloride Perovskite Nanocrystals. , 2020, 2, 381-388.		33
28	Infrared + vacuum ultraviolet two-color ionization spectroscopy of neutral metal complexes based on a tunable vacuum ultraviolet free-electron laser. <i>Review of Scientific Instruments</i> , 2020, 91, 034103.	0.6	10
29	Ultraviolet photolysis of H ₂ S and its implications for SH radical production in the interstellar medium. <i>Nature Communications</i> , 2020, 11, 1547.	5.8	37
30	State-to-state photodissociation dynamics of CO ₂ around 108 nm: the O(1S) atom channel. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6260-6265.	1.3	12
31	Ultrafast Transient Spectra and Dynamics of MXene (Ti ₃ C ₂ T _x) in Response to Light Excitations of Various Wavelengths. <i>Journal of Physical Chemistry C</i> , 2020, 124, 6441-6447.	1.5	39
32	Infrared Spectroscopy of Neutral Water Dimer Based on a Tunable Vacuum Ultraviolet Free Electron Laser. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 851-855.	2.1	50
33	Pressure-Tuned Core/Shell Configuration Transition of Shell Thickness-Dependent CdSe/CdS Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 920-926.	2.1	10
34	Reactivity oscillation in the heavyâ€“lightâ€“heavy Cl + CH ₄ reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9202-9207.	3.3	19
35	Piezochromic luminescence in all-inorganic coreâ€“shell InP/ZnS nanocrystals <i>via</i> pressure-modulated strain engineering. <i>Nanoscale Horizons</i> , 2020, 5, 1233-1239.	4.1	15
36	Striking Isotopologue-Dependent Photodissociation Dynamics of Water Molecules: The Signature of an Accidental Resonance. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4209-4214.	2.1	12

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37	Ultraviolet to Long-Wave Infrared Photodetectors Based on a Three-Dimensional Dirac Semimetal/Organic Thin Film Heterojunction. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3914-3921.	2.1	29
38	Ultrafast Flash Energy Conductance at MXene-Surfactant Interface and Its Molecular Origins. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901461.	1.9	17
39	Ultrafast decay dynamics of water molecules excited to electronic D_1^2 and D_1^2 states: a time-resolved photoelectron spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15040-15045.	1.3	1
40	Li-Ion solvation in propylene carbonate electrolytes determined by molecular rotational measurements. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10417-10422.	1.3	16
41	Hydroxyl super rotors from vacuum ultraviolet photodissociation of water. <i>Nature Communications</i> , 2019, 10, 1250.	5.8	37
42	Understanding the intramolecular vibrational energy transfer and structural dynamics of anionic ligands in a photo-catalytic CO ₂ reduction catalyst. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23026-23035.	1.3	6
43	Ordered-to-Disordered Transformation of Enhanced Water Structure on Hydrophobic Surfaces in Concentrated Alcohol-Water Solutions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7922-7928.	2.1	21
44	Photon diagnosis and transport for Dalian coherent light source. , 2019, , .		0
45	Ultrafast excited-state dynamics of 2,5-dimethylpyrrole. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15015-15021.	1.3	10
46	Photodissociation dynamics of H ₂ O at 111.5 nm by a vacuum ultraviolet free electron laser. <i>Journal of Chemical Physics</i> , 2018, 148, 124301.	1.2	29
47	Tunable VUV photochemistry using vacuum ultraviolet free electron laser combined with H-atom Rydberg tagging time-of-flight spectroscopy. <i>Review of Scientific Instruments</i> , 2018, 89, 063113.	0.6	33
48	The molecular rotational motion of liquid ethanol studied by ultrafast time resolved infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4345-4351.	1.3	10
49	CH stretching excitation promotes its cleavage in the F + CHD ₃ ($\hat{v}_{1/2} = 1$) $\hat{\nu}'$ HF + CD ₃ reaction at low collision energies. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13070-13074.	1.3	10
50	An accidental resonance mediated predissociation pathway of water molecules excited to the electronic C_1^f state. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29795-29800.	1.3	14
51	Ultrafast excited-state dynamics of 2,4-dimethylpyrrole. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29146-29152.	1.3	13
52	Excited state non-adiabatic dynamics of N-methylpyrrole: A time-resolved photoelectron spectroscopy and quantum dynamics study. <i>Journal of Chemical Physics</i> , 2016, 144, 014309.	1.2	21
53	Solvation structure around the Li ⁺ ion in succinonitrile-lithium salt plastic crystalline electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14867-14873.	1.3	25
54	Effect of CH stretching excitation on the reaction dynamics of F + CHD ₃ $\hat{\nu}'$ DF + CHD ₂ . <i>Journal of Chemical Physics</i> , 2015, 143, 044316.	1.2	17

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55	On-line spectral diagnostic system for Dalian Coherent Light Source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 783, 65-67.	0.7	5
56	Excited state non-adiabatic dynamics of pyrrole: A time-resolved photoelectron spectroscopy and quantum dynamics study. Journal of Chemical Physics, 2015, 142, 074302.	1.2	59
57	Effect of antisymmetric C-H stretching excitation on the dynamics of O(1D) + CH4 → OH + CH3. Journal of Chemical Physics, 2014, 140, 154305.	1.2	4
58	How Is C-H Vibrational Energy Redistributed in F + CHD ₃ (ν ₂ = 1) → HF + CD ₃ ?. Journal of Physical Chemistry Letters, 2014, 5, 1790-1794.	2.1	28
59	Ultrafast non-adiabatic dynamics of methyl substituted ethylenes: The σ^*_{3s} Rydberg state. Journal of Chemical Physics, 2011, 135, 164309.	1.2	45
60	Angular momentum polarisation in the O(¹ D) products of O ₂ photolysis via the B state. Molecular Physics, 2010, 108, 1145-1157.	0.8	10
61	Crossed molecular beam ion-imaging study of the Cl + SiH ₄ → HCl + SiH ₃ reaction: product vibrational state-to-state correlation. Physical Chemistry Chemical Physics, 2010, 12, 9469.	1.3	8
62	A new crossed molecular beam apparatus using time-sliced ion velocity imaging technique. Review of Scientific Instruments, 2008, 79, 094104.	0.6	28
63	Photodissociation dynamics of the methyl radical at 212.5 nm: Effect of parent internal excitation. Journal of Chemical Physics, 2004, 120, 2193-2198.	1.2	27