## Guorong Wu

## List of Publications by Year in descending order

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430442 500791 1,089 63 18 28 citations h-index g-index papers 67 67 67 1028 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	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
2	Infrared spectroscopy of neutral water clusters at finite temperature: Evidence for a noncyclic pentamer. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15423-15428.	3.3	55
3	Infrared Spectroscopy of Neutral Water Dimer Based on a Tunable Vacuum Ultraviolet Free Electron Laser. Journal of Physical Chemistry Letters, 2020, 11, 851-855.	2.1	50
4	Ultrafast non-adiabatic dynamics of methyl substituted ethylenes: The ⟨i⟩Ï€⟨/i⟩3s Rydberg state. Journal of Chemical Physics, 2011, 135, 164309.	1.2	45
5	Ultrafast Transient Spectra and Dynamics of MXene (Ti <sub>3</sub> C <sub>2</sub> T <sub><i>x</i></sub> ) in Response to Light Excitations of Various Wavelengths. Journal of Physical Chemistry C, 2020, 124, 6441-6447.	1.5	39
6	Hydroxyl super rotors from vacuum ultraviolet photodissociation of water. Nature Communications, 2019, 10, 1250.	5 <b>.</b> 8	37
7	Ultraviolet photolysis of H2S and its implications for SH radical production in the interstellar medium. Nature Communications, 2020, 11, 1547.	5.8	37
8	Infrared spectroscopic study of hydrogen bonding topologies in the smallest ice cube. Nature Communications, 2020, $11$ , 5449.	5 <b>.</b> 8	35
9	Tunable VUV photochemistry using vacuum ultraviolet free electron laser combined with H-atom Rydberg tagging time-of-flight spectroscopy. Review of Scientific Instruments, 2018, 89, 063113.	0.6	33
10	Pressure-Induced Emission Enhancements of Mn $<$ sup $>2+<$ /sup $>$ -Doped Cesium Lead Chloride Perovskite Nanocrystals., 2020, 2, 381-388.		33
11	Photodissociation dynamics of H2O at 111.5 nm by a vacuum ultraviolet free electron laser. Journal of Chemical Physics, 2018, 148, 124301.	1.2	29
12	Ultraviolet to Long-Wave Infrared Photodetectors Based on a Three-Dimensional Dirac Semimetal/Organic Thin Film Heterojunction. Journal of Physical Chemistry Letters, 2019, 10, 3914-3921.	2.1	29
13	A new crossed molecular beam apparatus using time-sliced ion velocity imaging technique. Review of Scientific Instruments, 2008, 79, 094104.	0.6	28
14	How Is C–H Vibrational Energy Redistributed in F + CHD <sub>3</sub> (ν <sub>1</sub> = 1) → HF + CD <sub>3</sub> ?. Journal of Physical Chemistry Letters, 2014, 5, 1790-1794.	2.1	28
15	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
16	Transformation between the Dark and Bright Self-Trapped Excitons in Lead-Free Double-Perovskite Cs <sub>2</sub> NaBiCl <sub>6</sub> under Pressure. Journal of Physical Chemistry Letters, 2021, 12, 7285-7292.	2.1	27
17	Solvation structure around the Li <sup>+</sup> ion in succinonitrile–lithium salt plastic crystalline electrolytes. Physical Chemistry Chemical Physics, 2016, 18, 14867-14873.	1.3	25
18	Excited state non-adiabatic dynamics of N-methylpyrrole: A time-resolved photoelectron spectroscopy and quantum dynamics study. Journal of Chemical Physics, 2016, 144, 014309.	1.2	21

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19	Ordered-to-Disordered Transformation of Enhanced Water Structure on Hydrophobic Surfaces in Concentrated Alcohol–Water Solutions. Journal of Physical Chemistry Letters, 2019, 10, 7922-7928.	2.1	21
20	Water Photolysis and Its Contributions to the Hydroxyl Dayglow Emissions in the Atmospheres of Earth and Mars. Journal of Physical Chemistry Letters, 2020, 11, 9086-9092.	2.1	19
21	Reactivity oscillation in the heavy–light–heavy Cl + CH <sub>4</sub> reaction. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9202-9207.	3.3	19
22	Effect of CH stretching excitation on the reaction dynamics of F + CHD3 $\hat{a}^{\dagger}$ DF + CHD2. Journal of Chemical Physics, 2015, 143, 044316.	1.2	17
23	Ultrafast Flash Energy Conductance at MXeneâ€Surfactant Interface and Its Molecular Origins. Advanced Materials Interfaces, 2019, 6, 1901461.	1.9	17
24	Electronically Excited OH Super-rotors from Water Photodissociation by Using Vacuum Ultraviolet Free-Electron Laser Pulses. Journal of Physical Chemistry Letters, 2020, 11, 7617-7623.	2.1	17
25	Li-lon solvation in propylene carbonate electrolytes determined by molecular rotational measurements. Physical Chemistry Chemical Physics, 2019, 21, 10417-10422.	1.3	16
26	Three body photodissociation of the water molecule and its implications for prebiotic oxygen production. Nature Communications, 2021, 12, 2476.	5.8	15
27	Piezochromic luminescence in all-inorganic core–shell InP/ZnS nanocrystals <i>via</i> pressure-modulated strain engineering. Nanoscale Horizons, 2020, 5, 1233-1239.	4.1	15
28	Vibrationally excited molecular hydrogen production from the water photochemistry. Nature Communications, 2021, 12, 6303.	5.8	15
29	An accidental resonance mediated predissociation pathway of water molecules excited to the electronic $\widehat{Clf}$ state. Physical Chemistry Chemical Physics, 2017, 19, 29795-29800.	1.3	14
30	Rotational and nuclear-spin levelÂdependent photodissociation dynamics of H2S. Nature Communications, 2021, 12, 4459.	5.8	14
31	Ultrafast excited-state dynamics of 2,4-dimethylpyrrole. Physical Chemistry Chemical Physics, 2017, 19, 29146-29152.	1.3	13
32	Retainable Bandgap Narrowing and Enhanced Photoluminescence in Mnâ€Doped and Undoped Cs <sub>2</sub> NaBiCl <sub>6</sub> Double Perovskites by Pressure Engineering. Advanced Optical Materials, 2022, 10, 2101892.	3.6	13
33	Striking Isotopologue-Dependent Photodissociation Dynamics of Water Molecules: The Signature of an Accidental Resonance. Journal of Physical Chemistry Letters, 2019, 10, 4209-4214.	2.1	12
34	State-to-state photodissociation dynamics of CO2 around 108 nm: the O(1S) atom channel. Physical Chemistry Chemical Physics, 2020, 22, 6260-6265.	1.3	12
35	Vibrational Signature of Dynamic Coupling of a Strong Hydrogen Bond. Journal of Physical Chemistry Letters, 2021, 12, 2259-2265.	2.1	12
36	Observation of Carbon–Carbon Coupling Reaction in Neutral Transition-Metal Carbonyls. Journal of Physical Chemistry Letters, 2021, 12, 1012-1017.	2.1	12

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37	Harvesting High-Quality White-Light Emitting and Remarkable Emission Enhancement in One-Dimensional Halide Perovskites Upon Compression. Jacs Au, 2021, 1, 459-466.	3.6	11
38	Angular momentum polarisation in the O( <sup>1</sup> D) products of O <sub>2</sub> photolysis via the B state. Molecular Physics, 2010, 108, 1145-1157.	0.8	10
39	The molecular rotational motion of liquid ethanol studied by ultrafast time resolved infrared spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 4345-4351.	1.3	10
40	CH stretching excitation promotes its cleavage in the F + CHD3( $\hat{l}\sqrt{2}1 = 1$ ) $\hat{a}\dagger$ HF + CD3 reaction at low collision energies. Physical Chemistry Chemical Physics, 2017, 19, 13070-13074.	1.3	10
41	Ultrafast excited-state dynamics of 2,5-dimethylpyrrole. Physical Chemistry Chemical Physics, 2018, 20, 15015-15021.	1.3	10
42	Ultraviolet photochemistry of ethane: implications for the atmospheric chemistry of the gas giants. Chemical Science, 2020, 11, 5089-5097.	3.7	10
43	Infrared + vacuum ultraviolet two-color ionization spectroscopy of neutral metal complexes based on a tunable vacuum ultraviolet free-electron laser. Review of Scientific Instruments, 2020, 91, 034103.	0.6	10
44	Pressure-Tuned Core/Shell Configuration Transition of Shell Thickness-Dependent CdSe/CdS Nanocrystals. Journal of Physical Chemistry Letters, 2020, 11, 920-926.	2.1	10
45	Direct Observation of the C + S <sub>2</sub> Channel in CS <sub>2</sub> Photodissociation. Journal of Physical Chemistry Letters, 2021, 12, 844-849.	2.1	10
46	Pressure Engineered Optical Properties and Carrier Dynamics of FAPbBr <sub>3</sub> Nanocrystals Encapsulated by Siliceous Nanosphere. Journal of Physical Chemistry C, 2020, 124, 14390-14399.	1.5	9
47	Infrared spectroscopic signature of the structural diversity of the water heptamer. Cell Reports Physical Science, 2022, 3, 100748.	2.8	9
48	Crossed molecular beam ion-imaging study of the Cl + SiH4â†' HCl + SiH3 reaction: product vibrational state-to-state correlation. Physical Chemistry Chemical Physics, 2010, 12, 9469.	1.3	8
49	Infrared Spectroscopy of Stepwise Hydration Motifs of Sulfur Dioxide. Journal of Physical Chemistry Letters, 2022, 13, 5654-5659.	2.1	8
50	Understanding the intramolecular vibrational energy transfer and structural dynamics of anionic ligands in a photo-catalytic CO2reduction catalyst. Physical Chemistry Chemical Physics, 2019, 21, 23026-23035.	1.3	6
51	Pressure Manipulation of Interlayer Interactions and Ultrafast Carrier Dynamics in Few-Layer MoS <sub>2</sub> . Journal of Physical Chemistry C, 2020, 124, 11183-11192.	1.5	6
52	Ultrafast decay dynamics of electronically excited 2-ethylpyrrole. Physical Chemistry Chemical Physics, 2021, 23, 17625-17633.	1.3	6
53	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
54	Ultrafast optical switching to a metallic state via photoinduced Mott transition in few-layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:msub><mml:mi>MoS</mml:mi><mml:mn>2under hydrostatic pressure. Physical Review B, 2021, 103, .</mml:mn></mml:msub></mml:math 	nl:mn> <td>nl:∯sub&gt;</td>	nl:∯sub>

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55	Strong isotope effect in the VUV photodissociation of HOD: A possible origin of D/H isotope heterogeneity in the solar nebula. Science Advances, 2021, 7, .	4.7	5
56	Aerosol mass spectrometry of neutral species based on a tunable vacuum ultraviolet free electron laser. Physical Chemistry Chemical Physics, 2022, 24, 16484-16492.	1.3	5
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	Photodissociation dynamics of H <sub>2</sub> O and D <sub>2</sub> O <i>via</i> the DIf( <sup>1</sup> A <sub>1</sub> ) electronic state. Physical Chemistry Chemical Physics, 2020, 22, 4379-4386.	1.3	4
59	Photodissociation dynamics of CO2 + $\langle i \rangle h \vee \langle i \rangle$ ât' CO(X1 $\langle b \rangle \hat{l} \times \langle b \rangle + O(1D2)$ via the 3P1 $\langle b \rangle \hat{l} \langle b \rangle$ u state. Journal of Chemical Physics, 2022, 156, 054302.	1.2	4
60	Ligandâ€Induced Tuning of the Electronic Structure of Rhombus Tetraboron Cluster. ChemPhysChem, 2022, 23, e202200060.	1.0	2
61	Ultrafast decay dynamics of water molecules excited to electronic $D\hat{I}f\hat{a}\in^2$ and $D\hat{I}f\hat{a}\in^2\hat{a}\in^2$ states: a time-resolved photoelectron spectroscopy study. Physical Chemistry Chemical Physics, 2019, 21, 15040-15045.	1.3	1
62	Photodissociation Dynamics of H <sub>2</sub> O via the <i>á°½</i> ê² ( <sup>1</sup> B <sub>2</sub> ) Electronic State. Journal of Physical Chemistry A, 2021, 125, 3622-3630.	1.1	1
63	Photon diagnosis and transport for Dalian coherent light source. , 2019, , .		0