

# Guorong Wu

## List of Publications by Year in descending order

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63  
papers

1,089  
citations

430442

18  
h-index

500791

28  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1028  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Excited state non-adiabatic dynamics of pyrrole: A time-resolved photoelectron spectroscopy and quantum dynamics study. <i>Journal of Chemical Physics</i> , 2015, 142, 074302.  | 1.2 | 59        |
| 2  | 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        |
| 3  | 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        |
| 4  | Ultrafast non-adiabatic dynamics of methyl substituted ethylenes: The $\langle i \rangle \tilde{\epsilon} \langle /i \rangle 3s$ Rydberg state. <i>Journal of Chemical Physics</i> , 2011, 135, 164309.                    | 1.2 | 45        |
| 5  | 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        |
| 6  | Hydroxyl super rotors from vacuum ultraviolet photodissociation of water. <i>Nature Communications</i> , 2019, 10, 1250.   | 5.8 | 37        |
| 7  | Ultraviolet photolysis of H <sub>2</sub> S and its implications for SH radical production in the interstellar medium. <i>Nature Communications</i> , 2020, 11, 1547.   | 5.8 | 37        |
| 8  | Infrared spectroscopic study of hydrogen bonding topologies in the smallest ice cube. <i>Nature Communications</i> , 2020, 11, 5449.   | 5.8 | 35        |
| 9  | 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        |
| 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 H <sub>2</sub> O at 111.5 nm by a vacuum ultraviolet free electron laser. <i>Journal of Chemical Physics</i> , 2018, 148, 124301.  | 1.2 | 29        |
| 12 | 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        |
| 13 | A new crossed molecular beam apparatus using time-sliced ion velocity imaging technique. <i>Review of Scientific Instruments</i> , 2008, 79, 094104.   | 0.6 | 28        |
| 14 | How Is C-H Vibrational Energy Redistributed in $F + CHD_{3}(\hat{1}/2_{1} = 1) \hat{\rightarrow} HF + CD_{3}$ ?. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1790-1794.  | 2.1 | 28        |
| 15 | Photodissociation dynamics of the methyl radical at 212.5 nm: Effect of parent internal excitation. <i>Journal of Chemical Physics</i> , 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. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7285-7292.    | 2.1 | 27        |
| 17 | Solvation structure around the Li <sup>+</sup> ion in succinonitrile lithium salt plastic crystalline electrolytes. <i>Physical Chemistry Chemical Physics</i> , 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. <i>Journal of Chemical Physics</i> , 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. <i>Journal of Physical Chemistry Letters</i> , 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. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9086-9092.   | 2.1 | 19        |
| 21 | Reactivity oscillation in the heavy-light-heavy Cl + CH <sub>4</sub> reaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9202-9207.                              | 3.3 | 19        |
| 22 | Effect of CH stretching excitation on the reaction dynamics of F + CHD <sub>3</sub> → DF + CHD <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2015, 143, 044316.  | 1.2 | 17        |
| 23 | Ultrafast Flash Energy Conductance at MXene-Surfactant Interface and Its Molecular Origins. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901461.   | 1.9 | 17        |
| 24 | 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        |
| 25 | 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        |
| 26 | Three body photodissociation of the water molecule and its implications for prebiotic oxygen production. <i>Nature Communications</i> , 2021, 12, 2476.  | 5.8 | 15        |
| 27 | Piezochromic luminescence in all-inorganic core-shell InP/ZnS nanocrystals <i>via</i> pressure-modulated strain engineering. <i>Nanoscale Horizons</i> , 2020, 5, 1233-1239.   | 4.1 | 15        |
| 28 | Vibrationally excited molecular hydrogen production from the water photochemistry. <i>Nature Communications</i> , 2021, 12, 6303.  | 5.8 | 15        |
| 29 | An accidental resonance mediated predissociation pathway of water molecules excited to the electronic Clf state. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29795-29800.                                       | 1.3 | 14        |
| 30 | Rotational and nuclear-spin level-dependent photodissociation dynamics of H <sub>2</sub> S. <i>Nature Communications</i> , 2021, 12, 4459.   | 5.8 | 14        |
| 31 | Ultrafast excited-state dynamics of 2,4-dimethylpyrrole. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29146-29152.   | 1.3 | 13        |
| 32 | Retainable Bandgap Narrowing and Enhanced Photoluminescence in Mn-Doped and Undoped Cs <sub>2</sub> NaBiCl <sub>6</sub> Double Perovskites by Pressure Engineering. <i>Advanced Optical Materials</i> , 2022, 10, 2101892. | 3.6 | 13        |
| 33 | 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        |
| 34 | State-to-state photodissociation dynamics of CO <sub>2</sub> around 108 nm: the O(1S) atom channel. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6260-6265.  | 1.3 | 12        |
| 35 | Vibrational Signature of Dynamic Coupling of a Strong Hydrogen Bond. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2259-2265.   | 2.1 | 12        |
| 36 | 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        |



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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. <i>Science Advances</i> , 2021, 7, .   | 4.7 | 5         |
| 56 | 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         |
| 57 | Effect of antisymmetric C-H stretching excitation on the dynamics of O(1D) + CH <sub>4</sub> → OH + CH <sub>3</sub> . <i>Journal of Chemical Physics</i> , 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 Ḋ( <sup>1</sup> A <sub>1</sub> ) electronic state. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 4379-4386.                            | 1.3 | 4         |
| 59 | Photodissociation dynamics of CO <sub>2</sub> + <i>hv</i> → CO(X <sup>1</sup> Σ <sup>+</sup> ) + O(1D <sub>2</sub> ) via the 3P <sub>1</sub> state. <i>Journal of Chemical Physics</i> , 2022, 156, 054302.                         | 1.2 | 4         |
| 60 | Ligand-Induced Tuning of the Electronic Structure of Rhombus Tetraboron Cluster. <i>ChemPhysChem</i> , 2022, 23, e202200060.  | 1.0 | 2         |
| 61 | Ultrafast decay dynamics of water molecules excited to electronic Ḋ <sup>2</sup> and Ḋ <sup>2</sup> states: a time-resolved photoelectron spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15040-15045. | 1.3 | 1         |
| 62 | Photodissociation Dynamics of H <sub>2</sub> O via the <sup>1</sup> / <sub>4</sub> ( <sup>1</sup> B <sub>2</sub> ) Electronic State. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3622-3630.                                 | 1.1 | 1         |
| 63 | Photon diagnosis and transport for Dalian coherent light source. , 2019, , .  |     | 0         |