

# Min Cheng

## List of Publications by Year in descending order

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29  
papers

243  
citations

1040056

9  
h-index

1058476

14  
g-index

29  
all docs

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docs citations

29  
times ranked

224  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Communication: Probing the entrance channels of the X + CH <sub>4</sub> → HX + CH <sub>3</sub> (X = F, Cl, Br, I) reactions via photodetachment of X <sup>-</sup> ← CH <sub>4</sub> . Journal of Chemical Physics, 2011, 134, 191102.                                     | 3.0  | 35        |
| 2  | Strong and selective isotope effect in the vacuum ultraviolet photodissociation branching ratios of carbon monoxide. Nature Communications, 2019, 10, 3175.   | 12.8 | 23        |
| 3  | A mini-photofragment translational spectrometer with ion velocity map imaging using low voltage acceleration. Review of Scientific Instruments, 2018, 89, 013101.   | 1.3  | 17        |
| 4  | Vibrationally Resolved Photofragment Translational Spectroscopy of CH <sub>3</sub> I from 277 to 304 nm with Increasing Effect of the Hot Band. Journal of Physical Chemistry A, 2011, 115, 1153-1160.  | 2.5  | 16        |
| 5  | Rotational dependence of the branching ratios and fragment angular distributions for the photodissociation of <sup>12</sup> C <sup>16</sup> O in the Rydberg 4p(2) and 5p(0) complex region (92.84–93.37 nm). Physical Chemistry Chemical Physics, 2019, 21, 14376-14386. | 2.8  | 12        |
| 6  | Mode-Specific Autodetachment Dynamics of an Excited Non-valence Quadrupole-Bound State. Journal of Physical Chemistry Letters, 2021, 12, 1947-1954.   | 4.6  | 12        |
| 7  | Rapid and Selective Uptake of Cs <sup>+</sup> and Sr <sup>2+</sup> Ions by a Layered Thiostannate with Acid-Base and Irradiation Resistances. ACS ES&T Water, 2021, 1, 2440-2449.   | 4.6  | 12        |
| 8  | Strong Isotope-dependent Photodissociation Branching Ratios of N <sub>2</sub> and Their Potential Implications for the <sup>14</sup> N/ <sup>15</sup> N Isotope Fractionation in Titan's Atmosphere. Astrophysical Journal, 2021, 923, 196.                               | 4.5  | 12        |
| 9  | Vacuum ultraviolet photoexcitation and photofragment spectroscopic studies of <sup>14</sup> N <sup>15</sup> N between 109000 and 117500 Å <sup>-1</sup> . Journal of Chemical Physics, 2021, 155, 234305.   | 3.0  | 10        |
| 10 | Photofragment translational spectroscopy of CH <sub>3</sub> I at 225 nm with the high excitation of the symmetric stretch vibration of CH <sub>3</sub> fragment. Journal of Chemical Physics, 2012, 137, 144302.  | 3.0  | 9         |
| 11 | Vibrational Spectra and Theoretical Calculations of <i>cis</i> - and <i>trans</i> -3-Fluoro-N-methylaniline in the Neutral (S <sub>0</sub> ) and Cationic (D <sub>0</sub> ) Ground States. Journal of Physical Chemistry A, 2016, 120, 81-94.                             | 2.5  | 9         |
| 12 | Vibrational state distributions following the photodissociation of CF <sub>3</sub> I near 304nm. Chemical Physics Letters, 2010, 488, 158-161.  | 2.6  | 8         |
| 13 | Photodissociation dynamics of ICH <sub>2</sub> Cl → CH <sub>2</sub> Cl + I <sup>*</sup> /I: photofragment translational spectroscopy at 304 and 277 nm. Physical Chemistry Chemical Physics, 2016, 18, 3165-3172.   | 2.8  | 8         |
| 14 | A three-dimensional velocity-map imaging setup designed for crossed ion-molecule scattering studies. Chinese Journal of Chemical Physics, 2021, 34, 71-80.  | 1.3  | 7         |
| 15 | Vibrationally Mediated Photodissociation of CH <sub>3</sub> I [ <i>v</i> <sub>1</sub> = 1] at 277.5 nm: The Vibrationally Adiabatic Process. Journal of Physical Chemistry A, 2013, 117, 4352-4357.   | 2.5  | 6         |
| 16 | Channel-resolved rotationally dependent predissociation rate constants reveal the state-to-state dissociation dynamics of carbon monoxide in electronically excited states. Physical Chemistry Chemical Physics, 2020, 22, 2549-2556.                                     | 2.8  | 6         |
| 17 | Photodissociation Branching Ratios of <sup>13</sup> C <sup>16</sup> O in the Vacuum Ultraviolet Region from 102,745 to 106,360 cm <sup>-1</sup> . Astrophysical Journal, 2020, 891, 16.   | 4.5  | 6         |
| 18 | Photodissociation branching ratios of <sup>13</sup> C <sup>16</sup> O and <sup>12</sup> C <sup>18</sup> O in the vacuum ultraviolet region from 107 800 to 109 700 cm <sup>-1</sup> . Astronomy and Astrophysics, 2020, 637, A37.   | 5.1  | 5         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Photodissociation branching ratios for several absorption bands of $^{12}\text{C}^{16}\text{O}$ from 108,500 to 109,220 $\text{cm}^{-1}$ . <i>Molecular Physics</i> , 2021, 119, e1718228.   | 1.7 | 5         |
| 20 | Multifunctional ionic liquid-assisted interfacial engineering towards ZnS nanodots with ultrastable high-rate lithium storage performance. <i>Dalton Transactions</i> , 2021, 50, 16519-16527.   | 3.3 | 5         |
| 21 | Systematical study on photodissociation dynamics of BrCN from 225 $\text{nm}$ to 260 $\text{nm}$ . <i>Chinese Journal of Chemical Physics</i> , 2022, 35, 86-94.   | 1.3 | 5         |
| 22 | Vacuum Ultraviolet Photodissociation Branching Ratios of $^{12}\text{C}^{16}\text{O}$ , $^{13}\text{C}^{16}\text{O}$ , and $^{12}\text{C}^{18}\text{O}$ from 100500 to 102320 $\text{cm}^{-1}$ . <i>Journal of Physical Chemistry A</i> , 2020, 124, 9382-9391.                                    | 2.5 | 3         |
| 23 | A photoionized pulsed low-energy ion beam source for quantum state-to-state crossed ion-molecule scattering. <i>Review of Scientific Instruments</i> , 2021, 92, 113302.   | 1.3 | 3         |
| 24 | Photofragment translational spectroscopy of ICl near 304 and 280 nm: Observation of an intense hot band effect. <i>Science China Chemistry</i> , 2012, 55, 1148-1154.  | 8.2 | 2         |
| 25 | Resolved ( $v_1, v_2 = 1$ ) Combination Vibrational States of $\text{CF}_3$ Fragments in the Photofragment Translational Spectra of $\text{CF}_3\text{I}$ . <i>Journal of Physical Chemistry A</i> , 2016, 120, 9682-9689.   | 2.5 | 2         |
| 26 | Ionization spectroscopies and theoretical calculations of cis and trans 3-fluoro-N-methylaniline-Ar <sub>n</sub> ( $n = 1, 2$ ) van der Waals clusters: Structures and binding energies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 183, 177-186.        | 3.9 | 2         |
| 27 | Reinvestigation of the Rydberg $W1$ ( $b^1_2 = 1$ ) level of $^{12}\text{C}^{16}\text{O}$ , $^{13}\text{C}^{16}\text{O}$ , and $^{12}\text{C}^{18}\text{O}$ through rotationally dependent photodissociation branching ratio measurements. <i>Journal of Chemical Physics</i> , 2020, 152, 234308. | 3.0 | 2         |
| 28 | Photodissociation branching ratios of $^{12}\text{C}^{16}\text{O}$ from 110 500 to 113 045 $\text{cm}^{-1}$ : first observation of the C( $^1\text{S}$ ) channel. <i>Astronomy and Astrophysics</i> , 2021, 647, A127.   | 5.1 | 1         |
| 29 | Photofragment translational spectroscopy at 304 nm from C-H symmetric stretch excited $\text{CH}_3\text{I}$ [ $v_1 = 1$ ]. <i>Science China Chemistry</i> , 2014, 57, 902-910.   | 8.2 | 0         |