

# Rui Zhang



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## Education

Tsinghua University	Department of Physics	PHD	2022.09-2027.07
Tianjin University	School of Science	BS	2018.09-2022.07

## Publications

### • 10. Precision Measurement of the Electron Affinity of Chlorine via High-Resolution Photoelectron Spectroscopy

S.T. Yan, **R. Zhang**, and C.G. Ning.

*The Journal of Physical Chemistry Letters* 15, 7735-7739 (2024)

### • 9. Photodetachment and Tunneling Dissociation of Cryogenic Double-Rydberg Anions $\text{NH}_4^-$

**R. Zhang**, J.Y. Chen, S.T. Yan, W.R. Jie, and C.G. Ning.

*The Journal of Physical Chemistry Letters* 15, 5612-5617 (2024)

### • 8. Probing the activated complex of the $\text{F} + \text{NH}_3$ reaction via a dipole-bound state

**R. Zhang**, S.T. Yan, H.W. Song, H. Guo, and C.G. Ning.

*Nature Communications* 15 (1), 3858 (2024) (*Feature Image*)

### • 7. Calculation of level densities of coupled anharmonic molecular vibrations

**R. Zhang**, K. Hansen, J.W. Niman, P. Ferrari, S. Iida, H. Shiromaru.

*Chemical Physics Letters* 844, 141259 (2024) (*Editor's Choice, Front Cover Article*)

### • 6. Spectroscopic observation of Feshbach resonances in the tellurium dimer anion

S.T. Yan, **R. Zhang**, Y.Z. Lu, and C.G. Ning.

*The Journal of Chemical Physics* 160(6), 064303 (2024)

### • 5. Electron Affinities in the Periodic Table and an Example for As

S.T. Yan, Y.Z. Lu, **R. Zhang**, and C.G. Ning.

*Chinese Journal of Chemical Physics* 37(1), 1-12 (2024)

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### • 4. Energy Levels and Transition Rates for Laser Cooling $\text{Os}^-$ and a General Approach to Produce Cold Atoms and Molecules

Y.Z. Lu, **R. Zhang**, C.X. Song, C.Y. Chen, R. Si, and C.G. Ning.

*Chinese Physics Letters* 40(9), 093101 (2023)

### • 3. Electron affinity of atomic scandium and yttrium and excited states of their negative ions

**R. Zhang**, Y.Z. Lu, R.L. Tang, and C.G. Ning.

*The Journal of Chemical Physics* 158(8), 084303 (2023)

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### • 2. Probing Isomerization Dynamics via a Dipole-Bound State

Y.Z. Lu, R.L. Tang, **R. Zhang**, and C.G. Ning.

*The Journal of Physical Chemistry Letters* 13(37), 8711-8716 (2022)

### • 1. Thermal radiative cooling of carbon cluster cations $\text{C}_N^+$ , $N = 9, 11, 12, 17-27$

S. Iida, W. Hu, **R. Zhang**, P. Ferrari, K. Masuhara, H. Tanuma, H. Shiromaru, T. Azuma, and K. Hansen.

*Monthly Notices of the Royal Astronomical Society* 514(1), 844-851 (2022)