

Summary

- 172 publications, thereof
 - 2 Nature
 - 10 Nature sub-journals(Nature Photonics/Nature Physics/Nature Nanotechnology /Nature Communications/Nature Electronics)
 - 16 Physical Review Letters
 - including 5 highly cited papers.
- Citation Metrics:
 - Google Scholar citations: (total) 9990, h-index: 36

Research Publications

2025

- 172 Yunda Li, Wei Han, Zengming Meng, Wenxin Yang, Cheng Chin, **Jing Zhang**
Observation of quantized vortex in atomic Bose–Einstein condensate at Dirac point with emergent spin–orbit coupling
Nat. Photon. (2025).
- 171 Kai Zhao, Baojuan Dong, Yuang Wang, Xiaoxue Fan, Qi Wang, Zhiren Xiong, Jing Zhang, Jinkun He, Kaining Yang, Minru Qi, Chengbing Qin, Tongyao Zhang, Maolin Chen, Hanwen Wang, Jianqi Huang, Kai Liu, Hanwei Huang, Kenji Watanabe, Takashi Taniguchi, Yaning Wang, Xixiang Zhang, Juehan Yang, Zhenwen Huang, Yongjun Li, Zhongming Wei, **Jing Zhang**, Shuoxing Jiang, Zheng Vitto Han & Funan Liu
Soft-matter-induced orderings in a solid-state van der Waals heterostructure
Nat. Commun. **16** (2025), 1-9.
- 170 Biao Shan, Lianghai Huang, Yuhang Zhao, Guoqi Bian, Pengjun Wang, Wei Han, **Jing Zhang**
Chiral Raman coupling for spin-orbit coupling in ultracold atomic gases
Phys. Rev. A **111**(2) (2025), 023323(1-11).
- 169 Yue Zhang, Liangchao Chen, Zekui Wang, Yazhou Wang, Pengjun Wang, Lianghai Huang, Zengming Meng, Ran Qi and **Jing Zhang**
Observation of high partial-wave Feshbach resonances in 39K Bose-Einstein condensates
New J. Phys. (2025).

2024

- 168 Yimeng Guo, Jiangxu Li, Xuepeng Zhan, Chunwen Wang, Min Li, Biao Zhang, Zirui Wang, Yueyang Liu, Kaining Yang, Hai Wang, Wanying Li, Pingfan Gu, Zhaoping Luo, Yingjia Liu, Peitao Liu, Bo Chen, Kenji Watanabe, Takashi Taniguchi, Xing-Qiu Chen, Chengbing

Qin, Jiezhi Chen, Dongming Sun, **Jing Zhang**, Runsheng Wang, Jianpeng Liu, Yu Ye, Xiuyan Li, Yanglong Hou, Wu Zhou, Hanwen Wang, Zheng Han
Van der Waals polarity-engineered 3D integration of 2D complementary logic
Nature **630** (2024), 346–352.

- 167 Siwen Zhao, Jinqiang Huang, Valentin Crépel, Zhiren Xiong, Xingguang Wu, Tongyao Zhang, Hanwen Wang, Xiangyan Han, Zhengyu Li, Chuanying Xi, Senyang Pan, Zhaosheng Wang, Guangli Kuang, Jun Luo, Qinxin Shen, Jie Yang, Rui Zhou, Kenji Watanabe, Takashi Taniguchi, Benjamin Sacépé, **Jing Zhang**, Ning Wang, Jianming Lu, Nicolas Regnault, Zheng Vitto Han
Fractional quantum Hall phases in high-mobility n-type molybdenum disulfide transistors
Nature Electronics **7** (2024), 1117–1125.
- 166 Ce Wang, Chao Gao, **Jing Zhang**, Hui Zhai, Zhe-Yu Shi
Three-Dimensional Moiré Crystal in Ultracold Atomic Gases
Phys. Rev. Lett. **133** (16) (2024), 163401 (1-9).
- 165 Yuqing Wang, Libo Liang, Qinpei Zheng, Qi Huang, Wenlan Chen, **Jing Zhang**, Xuzong Chen, and Jiazhong Hu
Divergence of thermalization rates driven by the competition between finite temperature and quantum coherence
Opt. Express **32** (2024), 41657-41664.

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- 164 Zengming Meng, Liangwei Wang, Wei Han, Fangde Liu, Kai Wen, Chao Gao, Pengjun Wang, Cheng Chin, **Jing Zhang**
Atomic Bose–Einstein condensate in twisted-bilayer optical lattices
Nature **615**(2023), 231–236.
- 163 Kaining Yang, Xiang Gao, Yaning Wang, Tongyao Zhang, Yuchen Gao, XinLu, Shihao Zhang, Jianpeng Liu, PingfanGu, Zhaoping Luo, Runjie Zheng, Shimin Cao, HanwenWang, Xingdan Sun, KenjiWatanabe, Takashi Taniguchi, Xiuyan Li, **Jing Zhang**, Xi Dai, Jian-Hao Chen, Yu Ye, Zheng Han
Unconventional correlated insulator in CrOCl-interfaced Bernal bilayer graphene
Nature Commun. **14** (2023), 1-10.
- 162 Jiangwei Yan, Xudong Yu, Zheng Vitto Han, Tongcang Li, **Jing Zhang**
On-demand assembly of optically levitated nanoparticle arrays in vacuum
Photon. Res. **11** (2023), 600-608.
- 161 Zhenlian Shi, Ziliang Li, Pengjun Wang, Wei Han, Lianghui Huang, Zengming Meng, Liangchao Chen, **Jing Zhang**
Collective excitation of Bose–Einstein condensate of ^{23}Na via high-partial wave Feshbach resonance
New J. Phys. **25** (2023), 023032(1-8).

- 160 Ziliang Li, Zhengyu Gu, Pengjun Wang, **Jing Zhang**
Efficient production of ultracold polar molecules $^{23}\text{Na}^{40}\text{K}$ in their absolute ground state via intermediate state of the coupled complex $B\Pi | = 4 \rangle \sim c^3\Sigma^+ | = 25 \rangle$
Sci. China Phys. Mech. **66**(9) (2023), 293011(1-8).
- 159 Guoqi Bian, Biao Shan, Lianghui Huang, **Jing Zhang**
Rydberg electromagnetically induced transparency in 40K ultracold Fermi gases
Chin. Opt. Lett. **21**(10) (2023), 100201(1-6).
- 158 Ziliang Li, Zhengyu Gu, Zhenlian Shi, Pengjun Wang, **Jing Zhang**
Quantum degenerate Bose–Fermi atomic gas mixture of ^{23}Na and ^{40}K
Chin. Phys. B **32**(2) (2023), 023701(1-8).
- 157 Liangwei Wang, Fangde Liu, Yunda Li, Wei Han, Zengming Meng, **Jing Zhang**
Construction of two-dimensional arbitrary shape ^{87}Rb atomic array based on spatial light modulator
Acta Phys. Sin. **72**(6) (2023), 064201(1-8).

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- 156 Yaning Wang, Xiang Gao, Kaining Yang, Pingfan Gu, Xin Lu, Shihao Zhang, Yuchen Gao, Naijie Ren, Baojuan Dong, Yuhang Jiang, Kenji Watanabe, Takashi Taniguchi, Jun Kang, Wenkai Lou, Jinhai Mao, Jianpeng Liu, Yu Ye, Zheng Han, Kai Chang, **Jing Zhang** and Zhidong Zhang
Quantum Hall phase in graphene engineered by interfacial charge coupling
Nature Nanotech. **17**(2022), 1272-1279.
- 155 Tongyao Zhang, Hanwen Wang, Xiuxin Xia, Ning Yan, Xuanzhe Sha, Jinqiang Huang, Kenji Watanabe, Takashi Taniguchi, Mengjian Zhu, Lei Wang, Jiantou Gao, Xilong Liang, Chengbing Qin, Liantuan Xiao, Dongming Sun, **Jing Zhang**, Zheng Han and Xiaoxi Li
A monolithically sculpted van der Waals nano-opto-electro-mechanical coupler
Light-Sci. Appl. **11**(2022), 1-10.
- 154 Guoqi Bian, Lianghui Huang, Donghao Li, Zengming Meng, Liangchao Chen, Pengjun Wang and **Jing Zhang**,
Realization of space-dependent interactions by an optically controlled magnetic p-wave Feshbach resonance in degenerate Fermi gases
Phys. Rev. A **106**(2022), 023322(1-6).
- 153 Yuanbin Jin, Jiangwei Yan, Shah Jee Rahman, Xudong Yu, and **Jing Zhang**
Interference of the scattered vector light fields from two optically levitated nanoparticles
Opt. Express **30**(2022), 20026-20037.
- 152 Xudong Yu, Yuanbin Jin, Heng Shen, Zheng Han and **Jing Zhang**,
Hermitian and non-Hermitian normal-mode splitting in an optically-levitated nanoparticle
Quantum Frontiers **1**(2022), 1-6.

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6 GHz hyperfast rotation of an optically levitated nanoparticle in vacuum
Photon. Res. **9**(2021), 1344-1350.
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Imaging the dipole scattering of an optically levitated dielectric nanoparticle
Appl. Phys. Lett. **119**(2021), 021106(1-5).
- 149 Donghao Li, Guoqi Bian, Jie Miao, Pengjun Wang, Zengming Meng, Liangchao Chen, Lianghui Huang, and **Jing Zhang**
Rydberg excitation spectrum of ^{40}K ultracold Fermi gases
Phys. Rev. A **103**(2021), 063305(1-6).
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Time resolved interplay between superradiant and subradiant states in superradiance lattices of Bose-Einstein condensates
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Controllable continuous variable quantum state distributor
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- 146 Zhenlian Shi, Ziliang Li, Pengjun Wang, Khan Sadiq Nawaz, Liangchao Chen, Zengming Meng, Lianghui Huang and Jing Zhang
Production of ^{23}Na Bose-Einstein condensates in the $F=2$ state using $D2$ gray molasses
J. Opt. Soc. Am. B **38**(2021), 1229-1234.
- 145 Kai Wen, Zengming Meng, Liangwei Wang, Liangchao Chen, Lianghui Huang, Pengjun Wang, **Jing Zhang**
Experimental study of tune-out wavelengths for spin-dependent optical lattice in ^{87}Rb Bose-Einstein condensation
J. Opt. Soc. Am. B **38**(2021), 3269-3276.
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Production of dual species Bose-Einstein condensates of ^{39}K and ^{87}Rb
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Experimental realization of spin-tensor momentum coupling in ultracold Fermi gases
Phys. Rev. A **102**(1)(2020), 013309(1-6).
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Photoassociation spectroscopy of weakly bound $^{87}\text{Rb}_2$ molecules near the $^5P_{1/2} + ^5S_{1/2}$ threshold by optical Bragg scattering in Bose-Einstein condensates
Phys. Rev. A **102**(5)(2020), 053326(1-7).
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Tunable flux through a synthetic Hall tube of neutral fermions
Phys. Rev. A **102**(6)(2020), 063327(1-7).
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Laser-induced magnetization dynamics in a van der Waals ferromagnetic $\text{Cr}_2\text{Ge}_2\text{Te}_6$ nanoflake
Appl. Phys. Lett. **116**(2020), 223103(1-5).
- 137 Kai Wen, Zengming Meng, Pengjun Wang, Liangwei Wang, Liangchao Chen, Lianghui Huang, Lihong Zhou, Xiaoling Cui, **Jing Zhang**
Observation of sub-wavelength phase structure of matter wave with two-dimensional optical lattice by Kapitza-Dirac diffraction
Sci. Rep. **10**(2020), 5870 (1-8).
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Gate tunable giant anisotropic resistance in ultra-thin GaTe
Nature Commun. **10**(2019), 2302(1-8).

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Phys. Rev. A **100**(2)(2019), 022309(1-10) .
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Experimental Investigation of the Electromagnetically Induced-Absorption-Like Effect for an N-Type Energy Level in a Rubidium BEC
Chin. Phys. Lett. **36**(4)(2019), 043201(1-4).

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Experimental observation of one-dimensional superradiance lattices in ultracold atoms
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Observation of Floquet bands in driven spin-orbit-coupled Fermi gases
Phys. Rev. A **98**(1) (2018), 013615(1-7).
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Controllable coupled-resonator-induced transparency in a dual-recycled Michelson interferometer
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