

YI WEN ZHANG 张译文

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EDUCATION

Fudan University <i>Ph.D. Physics</i>	2014 – 2019
Fudan University <i>B.S. Physics</i>	2010 – 2014

RESEARCH EXPERIENCE

University of Southern California <i>Postdoctoral Scholar, Chia Wei Hsu group</i>	2019 –
Fudan University <i>Graduate Student, Jian Zi group</i>	2014 – 2019

HONORS AND AWARDS

National Scholarships for Graduate Students <i>Fudan University</i>	2018 – 2019
Academic Merit Scholarships for Graduate Students <i>Fudan University</i>	2016 – 2018
The First Place of Shanghai University Games <i>Fudan University Women's Basketball Team</i>	2016
The First Place of Shanghai University Basketball Association <i>Fudan University Women's Basketball Team</i>	2013
Scholarships for Outstanding Students <i>Fudan University</i>	2012 – 2013
Scholarships for Outstanding Students <i>Fudan University</i>	2010 – 2011

PUBLICATIONS

- Momentum-space imaging spectroscopy for the study of nanophotonic materials
Y Zhang, M Zhao, J Wang, WZ Liu, B Wang, S Hu, G Lu, A Chen, J Cui, W Zhang, CW Hsu, X Liu, L Shi, H Yin, J Zi
Science Bulletin 66 (8), 824.
- Observation of polarization vortices in momentum space
Y Zhang[†], A Chen[†], WZ Liu[†], CW Hsu, B Wang, F Guan, X Liu, L Shi, L Lu, J Zi
Physical Review Letters 120 (18), 186103. [†]equal contribution
- Generating optical vortex beams by momentum-space polarization vortices centred at bound states in the continuum (**2020 China's Top 10 Optical Breakthroughs**)
B Wang, W Liu, M Zhao, J Wang, **Y Zhang**, A Chen, F Guan, X Liu, L Shi, J Zi
Nature Photonics 14 (10), 623.

- Circularly Polarized States Spawning from Bound States in the Continuum
W Liu[†], B Wang[†], **Y Zhang**[†], J Wang, M Zhao, F Guan, X Liu, L Shi, J Zi
Physical Review Letters 123 (11), 116104. [†]equal contribution.
- Observing vortex polarization singularities at optical band degeneracies
A Chen[†], W Liu[†], **Y Zhang**[†], B Wang, X Liu, L Shi, L Lu, J Zi
Physical Review B 99 (18), 180101. [†]equal contribution.
- Phase characterisation of metalenses
M Zhao, MK Chen, ZP Zhuang, **Y Zhang**, A Chen, Q Chen, W Liu, J Wang, ZM Chen, B Wang, X Liu, H Yin, S X, L Shi, JW Dong, J Zi, DP Tsai
Light: Science & Applications 99 (18), 180101.
- Manipulating bandwidth of light absorption at critical coupling: An example of graphene integrated with dielectric photonic structure
J Wang, A Chen, **Y Zhang**, J Zeng, Y Zhang, X Liu, L Shi, J Zi
Physical Review B 100 (7), 075407.
- Photoluminescence enhancement and ultrafast relaxation dynamics in a low-dimensional heterostructure: effect of plasmon–exciton coupling
R. Miao[†], **Y Zhang**[†], Y Tang[†], J You, Y Zhang, L Shi, T Jiang
Optics Letters 43 (24), 6093-6096. [†]equal contribution
- Reconfigurable lateral optical force achieved by selectively exciting plasmonic dark modes near Fano resonance
H Chen, Q Ye, **Y Zhang**, L Shi, S Liu, Z Jian, Z Lin
Physical Review A 96 (2), 023809.
- Dynamical tuning of graphene plasmonic resonances by ultraviolet illuminations
Y Dai, Y Xia, T Jiang, A Chen, **Y Zhang**, Y Bai, G Du, F Guan, S Wu, X Liu, L Shi, J Zi
Advanced Optical Materials 6 (6), 1701081.
- Observation of optical states below light cone with compound lattices
J Wang, A Chen, M Zhao, W Liu, **Y Zhang**, X Liu, L Shi, J Zi
OSA Continuum 2 (6), 1844-1850.
- Polarization dependent plasmonic modes in elliptical graphene disk arrays
Y Xia, Y Dai, B Wang, A Chen, Y Zhang, **Y Zhang**, F Guan, X Liu, L Shi, J Zi
Optics Express 27 (2), 1080-1089.

PATENTS

- *Momentum space spectrum measuring system*
J Zi, S Hu, L Shi, **Y Zhang**, H Yin, J Cui
CN patent 108519155A, filed 2018, issued 2021
- *Momentum space optical phase measuring system*
Y Zhang, L Shi, J Zi, H Yin, S Hu
CN patent 111397861B, filed 2019, issued 2021
- *Micro lens detection system and detection method thereof*
M Zhao, L Shi, **Y Zhang**, A Chen, S Hu, H Yin, J Zi
CN patent 111397861B, filed 2020
- *Momentum space imaging system and applications*
J Zi, L Shi, **Y Zhang**, H Yin, S Hu, J Cui
CN patent 108414450A, filed Feb 2018

CONFERENCES AND TALKS

- [Oral] *10-Gb/s All-Fiber Beamforming LiFi System via Mode-Coupling Control*

Conference on Lasers and Electro-Optics (CLEO), May 2021

- [Invited] *Observation of Polarization Vortices in Momentum Space*
Progress In Electromagnetics Research Symposium, Toyama, JAPAN, August 2018
- [Oral] *Observation of Polarization Vortices in Momentum Space*
Physics Five University, National Top, Fudan University, December 2018
- [Oral] *The Application of Angle-Resolved Spectroscopy in New Artificial Optical Materials*
The Fourth National Symposium on Ultrafast Spectroscopy, Shanghai, CHINA, July 2018
- [Poster] *Polarization-resolved Momentum-space Imaging Spectroscopy*
Progress In Electromagnetics Research Symposium, Toyama, JAPAN, August 2018