

项元江教师简介

一、 个人基本情况：

项元江，温州大学教授，领军学者。曾任湖南大学博导、岳麓学者，深圳市国家级领军人才，2014 年湖南省优秀博士论文获得者，2019 年中国十大新锐科技人物，湖南省光学学会理事，国际期刊 BIOSENSORS 期刊编委、《光子学报》青年编委。主要从事光电子学和拓扑电路方面等研究工作，H-INDEX 65，总被引超过 16000 次。先后在美国普渡大学、新加坡南洋理工大学从事博士后研究。主持国家自然科学基金面上、国家军口重大专项项目和多项省级课题，参与国家自然科学基金委重大项目。曾获省自然科学奖二等奖 1 项，发表 SCI 论文 200 余篇。入选电子领域 ELSEVIER 高被引中国科学家(2021-2024)和全球前 2%顶尖科学家终身和年度排行榜” (2021-2025)。承担《电磁场与电磁波》、《光电子学》等教学工作，已毕业博士 10 人、毕业硕士 30 人。

性 别：男

出生年月：1978 年 7 月

民 族：汉

职称职务：教授

政治面貌：中共党员

最后学历：博士

最高学位：博士

工作单位：温州大学电气与电子工程学院

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二、 从事研究的专业领域及主要研究方向

拓扑电路和型微波器件、拓扑光子学、非线性拓扑全光器件、机器学习与超表面、可编码数字超表面

三、 主要工作经历

工作经历：

- 2025.11-至今 温州大学电气与电子工程学院，教授
- 2020.04-2025.10 湖南大学物理与微电子科学学院，教授
- 2014.06-2020.03 深圳大学微纳光电子研究院，副教授
- 2009.12-2014.05 湖南大学物理与微电子科学学院，副教授
- 2012.12-2014.03 新加坡南洋理工大学电子工程系，博士后

- 2001.07-2004.08 九江学院理学院，助教

教育经历：

- 2004.09-2011.12 湖南大学，电路与系统，工学博士，导师：范滇元院士
- 2008.04-2009.03 美国普渡大学，访问学者，导师：V. M. Shalaev
- 1997.09-2001.06 湖南大学，应用物理学，理学学士

四、 近年来主持的主要教学科研项目

- 国家自然科学基金面上项目，非线性拓扑位错态和旋错态的形成机理研究，2024.01-2027.12, 主持
- 国家自然科学基金面上项目，狄拉克等离子体诱导三阶非线性增强机理及其在全关开关中的应用研究，2019.01-2022.12, 主持
- 湖南省自然科学基金面上项目，非线性光学效应对拓扑光子学的影响机理及其调控作用，2021.01-2023.12, 主持
- 广东省自然科学基金面上项目，拓扑保护的高效非线性光学频率转换和低阈值全光开关研究，2023.01-2025.12, 主持
- 深圳市科技计划项目面上项目，基于石墨烯超表面的可控、低阈值光学双稳态功能器件研究，2020.05-2023.05, 主持
- 深圳市科技计划项目面上项目，基于石墨烯和拓扑绝缘体非线性效应的全光器件研究,2019.03-2021.03, 主持
- 广东省自然科学基金面上项目，狄拉克材料的太赫兹非线性光学特性和应用研究，2018.05-2021.04 , 主持
- 国家自然科学基金重大项目，光学旋涡与物质相互作用的非线性过程研究，2017.01-2021.12, 主要完成人

五、 近年完成的主要教学科研成果目录

①代表性成果：

1. Hongwei Jia, Ruixing Zhang, Wenlong Gao, Qinghua Guo, Biao Yang, Jing Hu, Yangang Bi, **Yuanjiang Xiang***, Chaoxing Liu*, Shuang Zhang*. Observation of chiral zero mode in inhomogeneous three-dimensional Weyl metamaterials. *Science* 363, 6423 (2019).
2. Biao Yang, Qinghua Guo, Ben Tremain, Rongjuan Liu, Lauren E. Barr, Qinghui Yan, Wenlong Gao, Hongchao Liu, **Yuanjiang Xiang**, Jing Chen, Chen Fang, Alastair Hibbins, Ling Lu, Shuang Zhang. Ideal Weyl points and helicoid surface states in artificial photonic crystal structures. *Science* 359, 1013 (2018)
3. Yang Yang, Wenlong Gao, Lingbo Xia, Hua Cheng, Hongwei Jia, **Yuanjiang Xiang***, and Shuang Zhang*. Spontaneous Emission and Resonant Scattering in Transition from Type I to Type II Photonic Weyl Systems. *Physical Review Letters*, 123(3), 033901 (2019).

4. Wenhui Wang, Wenlong Gao, Xiaodong Chen, Fulong Shi, Guixin Li, Jianwen Dong, **Yuanjiang Xiang***, and Shuang Zhang*. Moire Fringe Induced Gauge Field in Photonics. *Physical Review Letters* 125, 203901 (2020)
5. Zhongfu Li, Hsun-Chi Chan, and **Yuanjiang Xiang***. Fragile topology based helical edge states in two-dimensional moon-shaped photonic crystals. *Physical Review B* 102, 245149 (2020).
6. Shuo Liu, Ruiwen Shao, Shaojie Ma, Lei Zhang, Oubo You, Haotian Wu, **YuanJiang Xiang***, Tie Jun Cui*, and Shuang Zhang*. Non-Hermitian Skin Effect in a Non-Hermitian Electrical Circuit. *Research*, 2021, 5608038 (2021).
7. Shuo Liu, Shaojie Ma, Qian Zhang, Lei Zhang, Cheng Yang, Oubo You, Wenlong Gao, **Yuanjiang Xiang***, Tie Jun Cui* & Shuang Zhang*. Octupole corner state in a three-dimensional topological circuit. *Light: Science & Applications* 9, 145 (2020)
8. Erchan Yang, Biao Yang, Oubo You, Hsun-Chi Chan, Peng Mao, Qinghua Guo, Shaojie Ma, Lingbo Xia, Dianyuan Fan, **Yuanjiang Xiang***, and Shuang Zhang*. Observation of Non-Abelian Nodal Links in Photonics. *Physical Review Letters* 125, 033901 (2020).
9. Yang Yang, Yangang Bi, Liang Peng, Biao Yang, Shaojie Ma, Hsun-Chi Chan, **Yuanjiang Xiang***, and Shuang Zhang*. Veselago lensing with Weyl metamaterials. *Optica* 8, 249 (2021)
10. Wenhui Wang, Wenlong Gao, Leifeng Cao, **Yuanjiang Xiang*** and Shuang Zhang*. Photonic topological fermi nodal disk in non-Hermitian magnetic plasma. *Light: Science & Applications* 9, 40 (2020)
11. Qinghua Guo, Oubo You, Biao Yang, James B Sellman, Edward Blythe, Hongchao Liu, **Yuanjiang Xiang**, Jensen Li, Dianyuan Fan, Jing Chen, Che Ting Chan, Shuang Zhang*. Observation of three-dimensional photonic Dirac points and spin-polarized surface arcs. *Physical Review Letters* 122, 203903 (2019).
12. Shaojie Ma, Haixing Miao, **Yuanjiang Xiang***, Shuang Zhang*. Enhanced dynamic Casimir effect in temporally and spatially modulated Josephson transmission line. *Laser & Photonics Review* 13 (10), 1900164 (2019)
13. Shuo Liu, Wenlong Gao, Qian Zhang, Shaojie Ma, Lei Zhang, Changxu Liu, **Yuanjiang Xiang***, Tie Jun Cui*, Shuang Zhang*. Topologically protected edge state in two-dimensional Su–Schrieffer–Heeger circuit. *Research* 2019, 8609875 (2019).
14. Shuo Liu, Shaojie Ma, Cheng Yang, Lei Zhang, Wenlong Gao, **YuanJiang Xiang***, Tie Jun Cui*, and Shuang Zhang*. Gain- and loss-induced topological insulating phase in a non-Hermitian electrical circuit. *Physical Review Applied* 13, 014047 (2020)

②其他主要成果（2020–2025 年）

1. Min Li, Yu Zhang, Banxian Ruan, **Yuanjiang Xiang***. Interface-induced second-order topological bound states in the continuum in composite photonic crystals, *Opt. Lett.* 50, 6907-6910 (2025).
2. Banxian Ruan, Xiaoyu Dai, **Yuanjiang Xiang***. Interlayer coupling induced extended state in a localized continuum of non-Hermitian topoelectrical circuits, *Physical Review B*, 110, 235102 (2025).

3. Lanxin Luo, Xiaoyu Dai, Weipeng Hu, **Yuanjiang Xiang***. Second harmonic generation via double topological disclination states, *Opt. Lett.* 50, 375-378 (2025).
4. Liang Fang, **Yuanjiang Xiang**, Qinjun Chen, Shuangchun Wen. Topological Spin States in 3D Coupled Electromagnetic Fields, *Physical Review Letters*, 134, 013801 (2025).
5. Zhongfu Li, Shaojie Ma, Shuwei Li, Oubo You, Yachao Liu, Qingdong Yang, **Yuanjiang Xiang**, Peiheng Zhou, Shuang Zhang. Observation of Copropagating Chiral Zero Modes in Magnetic Photonic Crystals, *Physical Review Letters*, 134, 033802 (2025).
6. Zhongfu Li, Shiqi Li, **Yuanjiang Xiang**, Zhen Gao, Shuang Zhang, Peng Zhan, et al., Symmetry-Related Large-Area Corner Mode with a Tunable Mode Area and Stable Frequency, *Physical Review Letters*, 134, 116607 (2025).
7. Fuxin Guan, Shaojie Ma, Yachao Liu, **Yuanjiang Xiang***, Wenlong Gao, Shuang Zhang. Non-Hermitian physics of evanescent waves around band singularities, *Physical Review B*, 111, 104313 (2025).
8. Yuexin Zhang, Lanxin Luo, Xiaoyu Dai, **Yuanjiang Xiang***. Hybrid-orbital topological disclination states and wave propagation in defect-induced confined Mie resonance photonic crystals, *Physical Review B*, 111, 094110 (2025).
9. Luchi Wang, Jie Tang, Xiaoyu Dai, **Yuanjiang Xiang***. Topological phase transitions and switchable edge states for the non-Hermitian Aubry–André–Harper model in photonic crystals, *Opt. Lett.* 50, 1053-1056 (2025).
10. Fuxin Guan, Yang Yang, Hsun-Chi Chan, Zemeng Lin, Yue Hu, Ke Bi, Yuanjiang Xiang, Shuang Zhang. Excitation of longitudinal bound states in a weyl metamaterial cavity, *Laser & Photonics Reviews*, 19, 2400914 (2025).
11. Wei Lin, Banxian Ruan, Chao Liu, Xiaoyu Dai, Yuanjiang Xiang*. Evolution of topological extended state in multidimensional non-Hermitian topoelectrical circuits, *Applied Physics Letters*, 125, 173104 (2025).
12. Fangxiang Ding, Jie Tang, Xiaoyu Dai, Yuanjiang Xiang*. Valley Modes Separation of Chiral Landau Levels with In Plane Synthetic Gauge Fields in Gyromagnetic Photonic Crystals, *Laser & Photonics Reviews*, e01170 (2025).
13. Yuexin Zhang, Jie Tang, Lixin Luo, Xiaoyu Dai, Yuanjiang Xiang*. Degenerate zero-energy-line symmetric topological disclination modes in photonic crystals. *Physical Review Applied* 24 (3), 034066 (2025).
14. Wei Lin, Chao Liu, Banxian Ruan, Y Zou, Xiaoyu Dai, **Yuanjiang Xiang***. Manipulating the non-Hermitian skin effect through nonreciprocal flux in topoelectrical circuits. *Applied Physics Letters*, 127, 173104 (2025).
15. Yuexin Zhang, Xiaoyu Dai, **Yuanjiang Xiang***. Topological hierarchy in non-Hermitian three-dimensional photonic crystals, *Physical Review B*, 110, 104103 (2024).
16. Jie Tang, Xiaoyu Dai, and **Yuanjiang Xiang***, Manipulation of topological antichiral edge states by inducing valley–chirality coupling, *Opt. Lett.* 49, 5683-5686 (2024).
17. Weipeng Hu, Banxian Ruan, Wei Lin, Chao Liu, Xiaoyu Dai, Shuangchun Wen, **Yuanjiang Xiang***. Observation of topologically enhanced third harmonic generation in doubly resonant nonlinear topoelectrical circuits, *Communications Physics*, 7, 204 (2024).

18. Chao Liu, Banxian Ruan, Weipeng Hu, Wei Lin, Xiaoyu Dai, Jien Wu, Leyong Jiang, **Yuanjiang Xiang***. Extended state reshaping in non-Hermitian topoelectrical circuits, *Physical Review Applied*, 21, 054013 (2024).
19. Fuxin Guan, Xiangdong Guo, Shu Zhang, Kebo Zeng, Yue Hu, Chenchen Wu, Shaobo Zhou, **Yuanjiang Xiang**, Xiaoxia Yang, Qing Dai, Shuang Zhang. Compensating losses in polariton propagation with synthesized complex frequency excitation, *Nature Materials*, 23, 506 (2024).
20. Yuexin Zhang, Xiaoyu Dai, **Yuanjiang Xiang***. Dirac hierarchy in confined Mie resonance photonic crystals, *Physical Review B*, 109, 064105 (2024).
21. Shiwen Chen, Xiaoyu Dai, **Yuanjiang Xiang***. Efficient second-harmonic generation based on off- Γ merging bound states in the continuum, *Optics Letters*, 48, 6589 (2024).
22. Yuexin Zhang, Xiaoyu Dai, **Yuanjiang Xiang***. Photonic Higher - Order Topological Insulator with Enlarged Non-Trivial Bandgaps, *Laser & Photonics Reviews*, 17, 2300384 (2023).
23. Weipeng Hu, Xiaoyu Dai, Chao Liu, Shuangchun Wen, **Yuanjiang Xiang***. Multi-topological state via the Brillouin zone overlap for nonlinear frequency conversion, *Optics Letters*, 48, 5567 (2023).
24. Qijun Ma, Xue Chen, Qisen Xiong, Leyong Jiang, **Yuanjiang Xiang***. Drift current-induced tunable near-field energy transfer between twist magnetic Weyl semimetals and graphene, *Nanophotonics*, 12, 3911 (2023).
25. Shiwen Chen, Yixuan Zeng, Zhongfu Li, Yu Mao, Xiaoyu Dai, **Yuanjiang Xiang***. Passive nonreciprocal transmission and optical bistability based on polarization-independent bound states in the continuum, *Nanophotonics*, 12, 3612 (2023).
26. Jipeng Wu, Rongzhou Zeng, Jiaojiao Liang, Di Huang, Xiaoyu Dai, **Yuanjiang Xiang***. Spin-dependent and tunable perfect absorption in a Fabry-Perot cavity containing a multi-Weyl semimetal, *Optics Express*, 31, 30079 (2023).
27. Jun Zhu, Songrui Wei, Jie Tang, Yi Hu, Xiaoyu Dai, You Zi, Mengke Wang, **Yuanjiang Xiang***, Weichun Huang*. MXene V2CTx Nanosheet/Bismuth Quantum Dot-Based Heterostructures for Enhanced Flexible Photodetection and Nonlinear Photonics, *ACS Applied Nano Materials*, 6, 13629 (2023).
28. Yuexin Zhang, Jie Tang, Xiaoyu Dai, **Yuanjiang Xiang***. Flexible dimensional hierarchy of higher-order topology in the stacked Kagome-chain acoustic crystal, *Communications Physics*, 6, 130 (2023).
29. Yuexin Zhang, Chao Liu, Xiaoyu Dai, **Yuanjiang Xiang***. Coexisting hinge and vertical disclination states in a higher-order acoustic Dirac semimetal, *Physical Review B*, 107, 214108 (2023).
30. Leiming Wu, Xixi Yuan, Yuxuan Tang, S Wageh, Omar A Al-Hartomy, Abdullah G Al-Sehemi, Jun Yang, **Yuanjiang Xiang***, Han Zhang, Yuwen Qin. MXene sensors based on optical and electrical sensing signals: from biological, chemical, and physical sensing to emerging intelligent and bionic devices, *Photonix*, 4, 15 (2023).
31. Weipeng Hu, Chao Liu, Xiaoyu Dai, Shuangchun Wen, **Yuanjiang Xiang***. Second harmonic generation by matching the phase distributions of topological corner and edge states, *Optics Letters*, 48, 2341 (2023).
32. Zhongfu Li, Hsun-Chi Chan, ShiXiang Xu, **Yuanjiang Xiang***. Asymmetry spin-polarization Fermi arc and topological chiral beam splitter with the triply degenerate point in metamaterial, *Optics Letters*, 48, 932 (2023).

33. Yuexin Zhang, Jie Tang, Xiaoyu Dai, Sheng Zhang, **Yuanjiang Xiang***. Higher-order nodal ring photonic semimetal, *Optics Letters*, 47, 5885 (2022).
34. Yuexin Zhang, Jie Tang, Xiaoyu Dai, Sheng Zhang, Zizheng Cao, **Yuanjiang Xiang***. Design of a higher-order nodal-line semimetal in a spring-shaped acoustic topological crystal, *Physical Review B*, 106, 184101 (2022).
35. Fangxiang Ding, Yu Mao, Jingru Shen, Xiaoyu Dai, **Yuanjiang Xiang***. Simultaneous slow light and sound rainbow trapping in phoxonic crystals, *Optics Letters*, 47, 5650 (2022).
36. Mingyang Zhao, Shiyi Xia, Xunnan Zhang, Ling Yang, **Yuanjiang Xiang***, Zizheng Cao*. Photonic Radio Frequency Orbital Angular Momentum Generation and Beam Steering, *Journal of Lightwave Technology*, 41, 2107 (2022).
37. Jie Tang, **Yuanjiang Xiang***, et al., Few-Layer InSe Nanosheets Applications in Photonics Logical Gate and Isolator, *IEEE Journal of Selected Topics in Quantum Electronics*, 29, 5100707 (2022).
38. Qi You, JiaQi Zhu, Chao Peng, YanHui Zhang, BanXian Ruan, XiaoYu Dai, Xin Wang, Wai-Yeung Wong, DongFeng Xue, **Yuanjiang Xiang***. Bandgap tunable preparation of GaS nanosheets and their application in photoelectrochemical photodetectors, *Science China Technological Sciences*, 65, 2297 (2022).
39. Leiming Wu, Songrui Wei, Yule Zhang, Ye Zhang, **Yuanjiang Xiang***, Han Zhang*, Yuwen Qin*. Tunable Nonlinearity in 2D Graphdiyne Oxide for High-Performance All-Optical Modulation, *Advanced Optical Materials*, 10, 2102537 (2022).
40. Wanying Li, Liting Liu, Quanyang Tao, Yang Chen, Zheyi Lu, Lingan Kong, Weiqi Dang, Wujun Zhang, Zhiwei Li, Qianyu Li, Jie Tang, Liwang Ren, Wenjing Song, Xidong Duan, Chao Ma, **Yuanjiang Xiang**, Lei Liao, Yuan Liu. Realization of Ultra-Scaled MoS₂ Vertical Diodes via Double-Side Electrodes Lamination, *Nano Letters*, 22, 4429 (2022).
41. Yu Mao, Zhongfu Li, Weipeng Hu, Xiaoyu Dai, **Yuanjiang Xiang***. Topological slow light rainbow trapping and releasing based on gradient valley photonic crystal, *Journal of Lightwave Technology*, 40, 5152 (2022).
42. Jipeng Wu, Leyong Jiang, Xiaoyu Dai, **Yuanjiang Xiang***. Tunable and enhanced Faraday rotation induced by the epsilon-near-zero response of a Weyl semimetal, *Physical Review A*, 105, 043519 (2022).
43. Jipeng Wu, Leyong Jiang, Rongzhou Zeng, Jiaojiao Liang, Xiaoyu Dai, **Yuanjiang Xiang***. Determination of tilt degree and Weyl-node separation by the spatial Imbert-Fedorov shift near the Brewster angle, *Physical Review A*, 105, 023508 (2022).
44. Leiming Wu, Taojian Fan, Songrui Wei, Yijun Xu, Ye Zhang, Dingtao Ma, Yiqing Shu, **Yuanjiang Xiang***, Jun Liu, Jianqing Li*, Krassimir Panajotov, Yuwen Qin, Han Zhang*. All-optical logic devices based on black arsenic-phosphorus with strong nonlinear optical response and high stability, *Opto-Electronic Advances*, 5, 200046 (2022).
45. Xiaoyu Dai, Banxian Ruan, **Yuanjiang Xiang***. Self-referenced refractive index biosensing with graphene fano resonance modes, *Biosensors*, 11, 400 (2021).
46. Jipeng Wu, Jie Tang, Rongzhou Zeng, Xiaoyu Dai, **Yuanjiang Xiang***. Tunable coherent perfect absorption in three-dimensional Dirac semimetal films, *Chinese Optics Letters*, 19, 081601 (2021).
47. Fuxin Guan, Yue Hu, Xiaoyu Dai, Xiaohui Ling, Shaojie Ma, Jing Lin, Shaohua

- Dong, **Yuanjiang Xiang***. Spin-orbit interactions in a nonlinear medium due to a nonlinear-induced geometric phase, *Optics Letters*, 46, 2758 (2021).
48. Weipeng Hu, Jiali Hu, Shuangchun Wen, **Yuanjiang Xiang***. Dynamically reconfigurable topological states in photonic crystals with liquid crystals, *Optics Letters*, 46, 2589 (2021).
 49. Leiming Wu, **Yuanjiang Xiang***, Yuwen Qin*. Lossy-mode-resonance sensor based on perovskite nanomaterial with high sensitivity, *Optics Express*, 29, 17602 (2021).
 50. Xianglian Song, Sina Abedini Dereshgi, Edgar Palacios, **Yuanjiang Xiang***, Koray Aydin*. Enhanced interaction of optical phonons in h-BN with plasmonic lattice and cavity modes, *ACS Applied Materials & Interfaces*, 13, 25224 (2021).
 51. Jiaoqiao Xia, Yu Chen, **Yuanjiang Xiang***. Enhanced spin Hall effect due to the redshift gaps of photonic hypercrystals, *Optics Express*, 29, 12160 (2021).
 52. Jianou Huang, Chao Li, Yu Lei, Ling Yang, **Yuanjiang Xiang**, Alberto G Curto, Zilun Li, Lei Guo, Zizheng Cao, Yue Hao, Antonius Marcellus Jozef Koonen. A 20-Gbps Beam-Steered Infrared Wireless Link Enabled by a Passively Field-Programmable Metasurface, *Laser & Photonics Reviews*, 15, 2000266 (2021).
 53. Xin Wang, Junwu Liang, Qi You, Jiaqi Zhu, Feier Fang, **Yuanjiang Xiang***, Jun Song. Bandgap Engineering of Hydroxy - Functionalized Borophene for Superior Photo - Electrochemical Performance, *Angewandte Chemie International Edition*, 59, 23559 (2020).
 54. Zhongfu Li, Hsun-Chi Chan, **Yuanjiang Xiang***. Fragile topology based helical edge states in two-dimensional moon-shaped photonic crystals, *Physical Review B*, 102, 245149 (2020).
 55. Leiming Wu, Xixi Yuan, Dingtao Ma, Ye Zhang, Weichun Huang, Yanqi Ge, Yufeng Song, **Yuanjiang Xiang***, Jianqing Li*, Han Zhang*. Recent advances of spatial self-phase modulation in 2D materials and passive photonic device applications, *Small*, 16, 2002252 (2020).
 56. Yanzhao Liang, **Yuanjiang Xiang**, Xiaoyu Dai. Enhancement of graphene Faraday rotation in the one-dimensional topological photonic crystals, *Optics Express*, 28, 24560 (2020).
 57. Mingyang Zhao, Xuebing Zhang, Karl Tran, Hong Wen, **Yuanjiang Xiang***, Zizheng Cao*, Ad CF Reniers, AMJ Koonen. Integrated tunable phase shifter based on energy-conserved phase amplification and its application for RF-OAM generation, *IEEE Journal of Selected Topics in Quantum Electronics*, 27, 7600706 (2020).
 58. Jiaqi Zhu, Yuxuan Ke, Jianfeng Dai, Qi You, Leiming Wu, Jianqing Li, Jun Guo, **Yuanjiang Xiang**, Xiaoyu Dai. Topological insulator overlayer to enhance the sensitivity and detection limit of surface plasmon resonance sensor, *Nanophotonics*, 9, 1941 (2020).
 59. Leiming Wu, Ye Zhang, Xixi Yuan, Feng Zhang, Weichun Huang, Dingtao Ma, Jinlai Zhao, Yunzheng Wang, Yanqi Ge, Hao Huang, Ning Xu, Jianlong Kang, **Yuanjiang Xiang***, Yupeng Zhang, Jianqing Li*, Han Zhang*. 1D@ 0D hybrid dimensional heterojunction-based photonics logical gate and isolator, *Applied Materials Today*, 19, 100589 (2020).
 60. Yunlong Liao, Youxian Shan, Leiming Wu, **Yuanjiang Xiang**, Xiaoyu Dai. Liquid -Exfoliated Few-Layer InSe Nanosheets for Broadband Nonlinear All-Optical Applications, *Advanced Optical Materials*, 8, 1901862 (2020).

61. Yuting Zhao, Shuaiwen Gan, Leiming Wu, Jiaqi Zhu, **Yuanjiang Xiang**, Xiaoyu Dai. GeSe nanosheets modified surface plasmon resonance sensors for enhancing sensitivity, *Nanophotonics*, 9, 327 (2020).

六、 研究生培养情况

已培养研究生 40 名，目前指导在读研究生 10 名。

(2025 年 11 月更新)