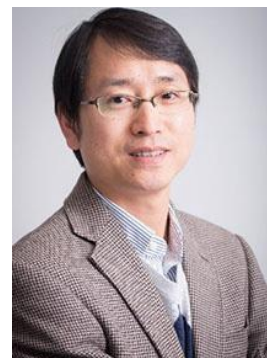


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Academic Qualification:

- Ph.D. in Condensed Matter Physics, University of Science and Technology of China (USTC), 2004
- B.S. in Condensed Matter Physics, University of Science and Technology of China (USTC), 1999

Teaching Area

Materials science and Engineering

Research Area

- Organic Semiconductor and Devices, including Organic Field-effect transistors (OFETs), Organic Light-emitting Diodes (OLEDs), and Photodetectors (PDs)
- Organic Micro/Nanocrystals and Optoelectronic Devices
- Perovskite Micro/Nanocrystals and Optoelectronic Devices
- Flexible and wearable electronics and sensors

Working Experience

- 2021-Present Professor, Macao Institute of Materials Science and Engineering, Macau University of Science and Technology
- 2011-Present Professor, FUNSOM, Soochow University
- 2006-2011 Professor, Hefei University of Technology
- 2005-2008 Postdoctoral Fellow, City University of Hong Kong
- 2004-2005 Research Assistant, University of Hong Kong

Academic Publication (selected)

- Zhibin Shao, Tianhao Jiang, Xiujuan Zhang, Xiaohong Zhang*, Xiaofeng Wu, Feifei Xia, Shiyun Xiong, Shuit-Tong Lee*, **Jiansheng Jie***, "Memory phototransistors based on exponential association photoelectric conversion law", *Nat. Commun.* 2019, 10, 1294.
- Wei Deng, **Jiansheng Jie***, Xiuzhen Xu, Yanling Xiao, Bei Lu, Xiujuan Zhang and Xiaohong Zhang*, "A Microchannel - Confined Crystallization Strategy Enables Blade Coating of Perovskite Single Crystal Arrays for Device Integration", *Adv. Mater.* 2020, 1908340.
- Jinwen Wang, Xiaofeng Wu, Jing Pan, Tanglue Feng, Di Wu, Xiujuan Zhang, Bai Yang, Xiaohong Zhang, **Jiansheng Jie***, "Graphene - Quantum - Dots - Induced Centimeter - Sized Growth of Monolayer Organic Crystals for High - Performance Transistors", *Adv. Mater.* 2020, DOI: 10.1002/adma.202003315.
- Siyi Huang, Bingchang Zhang*, Zhibin Shao, Le He, Qiao Zhang, **Jiansheng Jie***, Xiaohong Zhang*, "Ultraminiaturized Stretchable Strain Sensors Based on Single Silicon Nanowires for Imperceptible Electronic Skins", *Nano. Lett.* 2020, 20, 2478.
- Xiujuan Zhang, Jian Mao, Wei Deng, Liming Huang, Xiaohong Zhang, Shuit-Tong Lee, **Jiansheng Jie***, "Precise Patterning of Laterally Stacked Organic Microbelt Heterojunction Arrays by Surface-energy Controlled Stepwise Crystallization for Ambipolar Organic Field-effect Transistors", *Adv. Mater.* 2018, 1800187.
- Peng Xiao, Jie Mao, Ke Ding, Wenjin Luo, Weida Hu, Xiujuan Zhang, Xiaohong Zhang*, **Jiansheng Jie***, "Solution-processed three-dimensional RGO-MoS₂/pyramid Si heterojunction for ultrahigh-detectivity and ultra-broadband photodetection", *Adv. Mater.* 2018, 1801729.
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- Wei Deng, Xiujuan Zhang*, Liming Huang, Xiuzhen Xu, Liang Wang, Jincheng Wang, Qixun Shang, Shuit-Tong Lee, Jiansheng Jie*, "Aligned Single-Crystalline Perovskite Microwire Arrays for High-Performance Flexible Image Sensors with Long-Term Stability", *Adv. Mater.* 2016, 28, 2201.
- Xiujuan Zhang, Jiansheng Jie*, Wei Deng, Qixun Shang, Jincheng Wang, Hui Wang, Xianfeng Chen, Liming Huang, and Xiaohong Zhang*, "Alignment and Patterning of Ordered Small-molecule Organic Semiconductor Micro/nanocrystals for Device Applications", *Adv. Mater.* 2016, 28, 2475.
- Xiujuan Zhang, Zhibin Shao, Xiaohong Zhang*, Yuanyuan He, **Jiansheng Jie***, "Surface Charge Transfer Doping of Low-Dimensional Nanostructures toward High-Performance Nanodevices", *Adv. Mater.* 2016, 28, 10409.
- Wei Deng, Xiujuan Zhang*, Liang Wang, Jincheng Wang, Qixun Shang, Xiaohong Zhang*, Liming Huang, **Jiansheng Jie***, "Wafer - Scale Precise Patterning of Organic Single - Crystal Nanowire Arrays via a Photolithography - Assisted Spin - Coating Method", *Adv. Mater.* 2015, 27, 7305.

Professional Society Membership

- Fellow of Royal Society of Chemistry (FRSC)