

Department of
Electronic & Computer Engineering
電子及計算機工程學系

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Faculty

Zhiyong FAN (范智勇)
Ph. D., *University of California, Irvine*

Associate Professor
Dept of Electronic & Computer Engineering, HKUST

Research Areas
Solid-State Electronics and Photonics (S2EP)

Multi-disciplinary Themes
Ecotronics and Green ICT (EGI)

Research Interests
Fabrication and characterization of nanomaterials and nanostructures; applications of functional nanomaterials for electronics, energy harvesting and sensing.

Biography
Dr. Zhiyong Fan received his B. S. and M. S. degree in physical electronics from Fudan University, Shanghai, China, in 1998 and 2001. He received Ph.D degree from University of California, Irvine in 2006 in Materials Science. From 2007 to 2010, he worked in University of California, Berkeley as a postdoctoral fellow in department of Electrical Engineering and Computer Sciences, with a joint appointment with Lawrence Berkeley National Laboratory. In May 2010, he joined Hong Kong University of Science and Technology as an assistant professor. Dr. Fan has published more than 40 referred papers with more than 1000 citations. He holds 2 China and 1 US patents.

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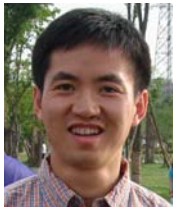
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Functional and Advanced Nanostructures (FAN) Laboratory

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Welcome to FAN lab at HKUST



香港科技大學
THE HONG KONG UNIVERSITY OF
SCIENCE AND TECHNOLOGY

Our research effort focuses on engineering novel nanostructures with functional materials, for technological applications including energy conversion, electronics and sensors, etc. The research being performed in our lab is highly interdisciplinary involving electrical engineering, materials science and engineering, chemistry and physics. Students and postdocs with strong motivation for cutting-edge research on nanotechnology are welcome to join us.

Recent Highlight

- May, 3,2017, Our collaboration work "A Scalable Indium Phosphide Thin-Film Nanophotonics Platform for Photovoltaic and Photoelectrochemical Devices" is accepted by ACS Nano.
- March, 22,2017, Congratulations to Deep for being conferred with [the 1st Runner Up Prize in the 3MT Thesis Presentation organized by the School of Engineering, HKUST.](#)
- March, 22,2017, Congratulations to Airan for his paper "ZnO Quantum Dots Decorated Zn2SnO4 Nanowire Heterojunction Photodetectors with Drastic Performance Enhancement and Flexible Ultraviolet Image Sensors" being accepted by ACS Nano.
- Jan,27,2017, Congratulations to Mahdi's paper "High Quality Organohalide Lead Perovskite Films Fabricated with Layer-by-Layer Alternating Vacuum Deposition for High Efficiency Photovoltaics" being accepted by *Materials Chemistry Frontiers*.
- Dec. 29, 2019, Congratulations to our previous postdoc Dr. Yongcai Qiu (丘勇才博士) being enlisted in the prestigious "The Thirteenth Round of National Young 1000 Talents Plan" ("第十三批国家青年千人计划")
- Dec. 24, 2017, Congratulations to Aashir for his paper "Lead-free Perovskite Nanowire Array Photodetectors with Drastically Improved Stability in Nanoengineering Templates" being accepted by Nano Letters.





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