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| [Home](https://xitanghkust.github.io/index.htm)  [People](https://xitanghkust.github.io/peoples.htm)  [Projects](https://xitanghkust.github.io/projects.htm)  [Publications](https://xitanghkust.github.io/publications.htm)  [Teaching](https://xitanghkust.github.io/teaching.htm)  [Contact](https://xitanghkust.github.io/contact.htm) | |  | | --- | | **Xi Tang Research Group** |   **Research interests in wide-bandgap power device and optoelectronic device technology.**  Dr. Tang received his B.S. degree in Department of Physics, Nanjing University in 2011 and M.ENG degree in Department of Electrical and Computer Engineering, Cornell University in 2012. Dr. Xi Tang obtained his Ph.D. degree in Electronic and Computer Engineering at the Hong Kong University of Science and Technology (HKUST) in 2017 under the supervision of [Prof. Kevin J. Chen](https://eekjchen.home.ece.ust.hk/), who is the IEEE fellow, with his doctoral research on Gallium Nitride (GaN) power device technology. In particular, he developed [a GaN power transistor with photonic-ohmic drain](https://patents.google.com/patent/US10270436B2/en) to achieve superior dynamic performance.  From 2017 to 2018, Dr. Tang was at Queensland Micro and Nanotechnology Centre (QMNC) of Griffith University, engaging in the research and development on the [wide-bandgap device technology](https://ieeexplore.ieee.org/document/8386833) with [Prof. Sima Dimitrijev](https://experts.griffith.edu.au/19028-sima-dimitrijev). Dr. Tang received the National Introducing Project Research Award in 2018 and conducted joint-research project with Dr. Baikui Li at Shenzhen University on the development of AlN based high-voltage devices. In 2018, he was a research associate of HKUST in a collaboration with the research group headed by [Prof. Jiannong Wang](https://facultyprofiles.ust.hk/profiles.php?profile=jiannong-wang-phjwang), where his main research interest was III-nitride optoelectronic device technology. In particular, he developed a [GaN-heterostructure-based ultraviolet photodetector](https://aip.scitation.org/doi/10.1063/5.0054612) for high temperature and high speed applications.  Dr. Tang joined Anhui University in 2020. He is currently a Tenure-track Professor at the [Institute of Physical Science and Information Technology](http://wky.ahu.edu.cn/2020/0824/c13481a242829/page.htm) and with a research group consisting of 3 faculty members and 7 postgraduate students.     |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  |   *Database*  [Google Scholar](http://scholar.google.com.au/citations?user=e5tg11EAAAAJ&hl=en)  [Web of Science](https://publons.com/researcher/3007423/xi-tang/)  [Scopus](http://www.scopus.com/authid/detail.url?authorId=55857270600)  [Research Gate](https://www.researchgate.net/profile/Xi_Tang4)  [Department Website (Chinese)](http://wky.ahu.edu.cn/2020/0824/c13481a242829/page.htm)  [Advanced Semiconductor Materials and Devices Research Laboratory](http://asmd.ahu.edu.cn) (ASMD lab) |