

NAME: Jiannong Wang

Academic qualifications :

B.Sc. (1982) Electronics Dept., University of Xi-an-jiao-tong, Xi-an, Shaanxi, China

M.Sc. (1986) Institute of Semiconductors, Chinese Academy of Science, Beijing, China

Ph.D. (1990) H.H.Wills Physics Laboratory ,University of Bristol, UK

Previous academic positions held:

1/4/90/-31/3/92-----**Post-doc research assistant** Physics Dept., University of Bristol, UK

1/4/92-10/10/94-----**Post-doc research associate** Physics Dept., University of Nottingham,
UK

11/10/94-30/06/2000-----**Lecturer** (Assistant Professor) Physics Dept., Hong Kong
University of Science and Technology, Hong Kong

01/07/2000-30/06/2011-----**Associate Professor** Physics Dept., Hong Kong University of
Science and Technology, Hong Kong

Present academic position:

01/07/2011-present-----**Professor** Physics Dept., Hong Kong University of Science and
Technology, Hong Kong

Research Interests: Magneto-transport and -optical properties of materials; Physics and fabrication of 2D materials and topological insulators; Novel device applications.

Representitive Publications:

1. “Origin of bias-independent conductance plateaus and zero-bias conductance peaks in Bi₂Se₃/NbSe₂ hybrid structures” Hui Li, Tong Zhou, Jun He, Huan-Wen Wang, Huachen Zhang, Hong-Chao Liu, Ya Yi, Changming Wu, Kam Tuen Law, Hongtao He, and Jiannong Wang *Phys. Rev. B* **96** 075107 (2017)
2. “Optoelectronic devices on AlGa_N/Ga_N HEMT platform” Baikui Li, Xi Tang, Jiannong Wang, and Kevin J. Chen, *Phys. Status Solidi A*, **213**, No. 5, 1213–1221 (2016) Invited Article
3. “Negative magnetoresistance in Dirac semimetal Cd₃As₂” Hui Li, Hongtao He, Hai-Zhou Lu, Huachen Zhang, Hongchao Liu, Rong Ma, Zhiyong Fan, Shun-Qing Shen and Jiannong Wang, *Nature Communications*, **7**, 10301 (2016)
4. “A study of lateral Schottky contacts in WSe₂ and MoS₂ field effect transistors using scanning photocurrent microscopy” Ya Yi, Changming Wu, Hongchao Liu, Jiali Zeng, Hongtao He and Jiannong Wang, *Nanoscale*, **7**, pp15711–15718 (2015)
5. “Two-dimensional superconductivity at the interface of a Bi₂Te₃/FeTe heterostructures” Qing Lin He, Hongchao Liu, Mingquan He, Ying Hoi Lai, Hongtao He, Gan Wang, Kam Tuen Law, Rolf Lortz, Jiannong Wang and Iam Keong Sou, *Nature Communications*, **5**, 4247 (2014)
6. “Interface effect in Nb-Bi₂Te₃ hybrid structure” Hong-Chao Liu, Hong-Tao He, Bai-Kui Li, Shi-Guang Liu, Qing Lin He, Gan Wang, Iam-Keong Sou, and Jiannong Wang, *Appl. Phys. Lett.* **103**, 152601 (2013)
7. “Impurity effect on weak anti-localization in topological insulator Bi₂Te₃” Hong-Tao He, Gan Wang, Tao Zhang, George K. L. Wong, Iam-Keong Sou, Jiannong Wang, Hai-Zhou Lu, Shun-Qing Shen, and Fu-Chun Zhang, *Phys Rev. Lett.* **106** 166805 (2011)

8. "Fermi-level depinning and hole injection induced two-dimensional electron related radiative emissions from a forward biased Ni/Au-AlGa_N/Ga_N Schottky diode" B. K. Li, M. J. Wang, K. J. Chen, and J. N. Wang, *Appl. Phys. Lett.* 95 232111 (2009)
9. "Persistent photoconductivity and carrier transport in AlGa_N/Ga_N heterostructures treated by fluorine plasma" B. K. Li, W. K. Ge, J. N. Wang, and K. J. Chen, *Appl. Phys. Lett.* 92, 082105 (2008)
10. "Spectral dependence of spin photocurrent and current-induced spin polarization in an InGaAs/InAlAs two-dimensional electron gas" C. L. Yang, H. T. He, Lu Ding, L. J. Cui, Y. P. Zeng, J. N. Wang, and W. K. Ge, *Phys. Rev. Lett.* **96** 186605 (2006)