

New Material Based Novel Devices

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New material is one the key driving force in the development of micro/nano electronic devices. To obtain electronic devices with new function and higher performance, new materials are employed combining with mainstream microelectronic technologies. In this talk, research on several kinds of new micro/nano electronic devices based on new materials including graphene and flexible materials will be introduced. These novel devices would open wide applications in multi-media, bio-medical and smart sensor systems.

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Prof. Tian-Ling Ren received his PhD degree from Department of Modern Applied Physics, Tsinghua University, China in 1997. He is full professor of Institute of Microelectronics, Tsinghua University since 2003. He has been a visiting professor at Electrical Engineering Department, Stanford University from 2011 to 2012. His research is focused on novel micro/nano electronic devices and key technologies, including memories, MEMS/NEMS, and flexible electronics. He has published more than 300 journal/conference papers and 50 patents. He is Elected Members-at-Large, and Distinguished Lecturer of IEEE Electron Devices Society. He is also Council Member of Chinese Society of Micro/Nano Technology.