



## Prof. Ting YU

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### Two-Dimensional Materials: Fundamentals and Applications

**MARCH 3** | Bldg. 101  
**2 P.M.** | Seminar room on the 1<sup>st</sup> floor

Two-dimensional (2D) materials, such as graphene and transitional-metal-dichalcogenide monolayers (TMD 1Ls), have aroused great interest because of the underlying fundamental physics and the promising practical applications. Here, I will present fundamental optical understandings of graphene and its beyond: 2D semiconductors. The potential application of such promising 2D materials such as in new energy storage and optoelectronics will also be discussed.

Ting YU received his PhD in Department of Physics, National University of Singapore in 2003 and is currently a Nanyang Associate Professor in Division of Physics and Applied Physics, Nanyang Technological University, Singapore and a joint associate professor of Graphene Research Centre at National University of Singapore. Dr. YU has received many prestigious awards including Nanyang Excellence Award for Research and Innovation (2008), National Young Scientist Award, National Research Foundation Fellowship Award (2009), Outstanding Young Scientist for the 3rd Inter Academy Panel/World Economic Forum (Summer Davos Forum) ((IAP/WEF, Representative of Singapore, 2010) and Institute of Physics Singapore, Nanotechnology award (2011). His research interests cover fabrication of low dimensional, especially 2D materials and investigation of their optical, optoelectrical and electrochemical properties for developing novel electronics, optoelectronics and energy conversion/storage. Dr Yu has published more than 200 SCI papers and received over 10,000 nonself-citations. His H-index is 54.

**You are cordially invited to attend!**

*Special Guest Speaker*