东南大学先进光子学中心 *Advanced Photonics Center*

Light Management in nanostructures for solar cell application

报告人：杜庆国博士（新加坡A*STAR）

时间地点：2014年6月6日10:00 金陵院123

Dr. **Qingguo Du** is currently a Research Scientist of the research institutes of Agency for Science, Technology and Research (A*STAR) of Singapore. He obtained his Ph.D in the area of microelectronics from Nanyang Technological University, Singapore in 2012. His research interests are mainly focused on nanophotonics including nanostructured thin film solar cell, anti-reflective film, nanopatterned thin metal film transparent electrodes, nonlinear photonic crystals and cost effective semiconductor laser diodes.

Abstract: Solar cells have received great interest and tremendous efforts have been devoted in the last few decades. However, the main problem of the conventional solar cell is that the cost is too high to achieve relatively high efficiency. In order to make the solar cell affordable to public, scientists are now focusing on the design of the third generation solar cells named as nanostructured solar cell. The work of this talk mainly focuses on the design and investigation of three types of nanostructures: anti-reflective coating, nanostructured active layerandmetallic nanostructure electrodes.

联合主办单位 江苏省光学学会