



國立清華大學
NATIONAL TSING HUA UNIVERSITY

Colloquium

Department of Engineering and
System Science,
Institute of Nuclear Engineering
and Science,
National Tsing Hua University

Plasmon-enhanced Light-matter Interactions at Nanoscale: *From Spontaneous Emission to Lasing*

呂宥蓉教授, Dr. Yu-Jung Lu,

Assistant Research Fellow,

Research Center for Applied Sciences,
Academia Sinica

In this talk, the presenter will present an overview of her research works on the plasmonic devices in the recent years, such as plasmonic nanolasers and tunable optoelectronic modulators. She will also discuss the current status and the challenge of the nanolasers.

15:30-17:20 , Wednesday, Oct. 21st, 2020

NE69 ESS Building, NTHU, 101,

Sec2, Kaung-Fu Rd., Hsinchu 30013, Taiwan

Biography:



Dr. Yu-Jung Lu is an Assistant Research Fellow in the Research Center for Applied Sciences at Academia Sinica and Assistant Professor in Department of Physics at National Taiwan University. Dr. Lu is also a visiting scholar at California Institute of Technology. Dr. Lu received her PhD in Physics from the National Tsing Hua University in Taiwan in 2013. She joined Prof. Harry Atwater's research group in California Institute of Technology (Caltech) from 2015 to 2017. Dr. Lu is a materials physicist with expertise in the fields of active tunable nanophotonics based on TCOs and transition metal nitrides, III-nitride based semiconductors, development of plasmonic nanolasers. Her research interests are within an interdisciplinary field of active plasmonics/optoelectronics with a particular focus on semiconductor nanostructure devices to investigate harvesting, generating, and manipulating light at the nanoscale. She is interested in applications related to lighting, energy, information processing, computing, and bio-sensing. She has been actively involved in many international conferences related to plasmonics and nanophotonics. Besides, she received several awards from Taiwan, such as Taiwan Outstanding Women in Science-Chui-Chu Mon Fellowship, The President's Scholarship of NTHU, The Honorary Member of the Phi-Tau-Phi Scholastic Honor Society, Postdoctoral Research Abroad Fellowship and the 56th Taiwan Ten Outstanding Young Persons.