



Professor ZHANG Dao Hua, FInstP

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Current position and past employment history

1 Sep. 2012 – Present:	Professor, Nanyang Technological University (NTU)
1 Sep. 2016 – Present	Deputy Director-LUMINUS
Jan. 2015 – Present	Program Director-Photonic Nano-Structure and Applications
1 Jul. 2012 – 30 Jun. 2014	Deputy Head of Division, Microelectronics
1 Jan. 1999 – 31 Aug. 2012:	Associate Professor, NTU
1 Jan. 1995 – 31 Dec. 1998:	Senior Lecturer, NTU
2 May. 1991 – 31 Dec.1994:	Lecturer, NTU.
18 Oct. 1984 – 28 Feb.1986:	Visiting Scholar, University of New South Wales, Australia.

Academic qualifications

BSc – Shandong University – 1978
MSc – Shandong University – 1983
PhD – University of New South Wales – 1989

Up to 10 recent publications

- Sumanta Bose, Sushant Shendre, Zhigang Song, Vijay Kumar Sharma, Dao Hua Zhang, Cuong Dang, Weijun Fan, and Hilmi Volkan Demir, “Temperature-dependent Optoelectronic Properties of Quasi-2D Colloidal Cadmium Selenide Nanoplatelets”, *Nanoscale*, accepted. (IF:7.76)
- Landobasa Y. M. Tobing¹, Yu Luo, Kay Soon Low, Dawei Zhang, Dao Hua Zhang, “Observation of the kinetic inductance limitation for the fundamental magnetic resonance in ultra small gold v-shape split ring resonators”, *Advanced Optical Materials*, , 4: 1047–1052. doi:10.1002/adom.201500739 (IF: 5.36)
- L. Y. M. Tobing and D. H. Zhang, “Preferential Excitation of Hybrid Magnetic-Electric Mode as a Limiting-Mechanism for the Achievable Fundamental Magnetic Resonance in Planar Aluminum Nanostructures”, *Advanced Materials*, 2016 Feb; 28(5):889-96. doi: 10.1002/adma.201504061 (IF: 18.96)
- Shan Kou, Guanghui Yuan, Qian Wang, Luping Du, Eugeniu Balaur, Dao-Hua Zhang, Dingyuan Tang, Brian Abbey, and Xiao Cong Yuan and Lin Jiao, “On-chip photonic Fourier transform with surface plasmon polaritons”, *Nature: Light: Science & Applications* (2016) 5, e16034; doi: 10.1038/lsa.2016.34. (IF: 13.6)

- Shengtao Mei, Kun Huang, Hong Liu, Fei Qin, Muhammad Q. Mehmood, Zhengji Xu, Minghui Hong, Daohua Zhang, Jinghua Teng, Aaron Danner, Cheng-Wei Qiu, “On-chip discrimination of orbital angular momentum of light with plasmonic nanoslits”, *Nanoscale*, 2016, Advance Article, DOI: 10.1039/C5NR07374J (IF: 7.76)
- Zhengji Xu, Landobasa Y. M. Tobing, Yiyang Xie, Jinchao Tong, Peinan Ni, Shupeng Qiu, Ting Yu, and Dao Hua Zhang, “Aluminum based structures for manipulating short visible wavelength in-plane surface plasmon polariton propagation”, *Opt. Express* **23**(17), 22883-22889 (2015) (IF: 3.148)
- Landobasa Y. M. Tobing, Liliana Tjahjana, Dao Hua Zhang, Qing Zhang and Qihua Xiong, “Sub-100-nm Sized Silver Split Ring Resonator Metamaterials with Fundamental Magnetic Resonance in the Middle Visible Spectrum”, *Advanced Optical Materials*, 2 (3), pages 280–285, March 2014. |DOI: 10.1002/adom.201300456. (IF:5.36)
- Yicen Li, Hui Zhang, Ting Mei, Ning Zhu, Dao Hua Zhang, and Jinghua Teng, “Effect of dielectric cladding on active plasmonic device based on InGaAsP multiple quantum wells”, *Optics Express*, Vol. 22, Issue 21, pp. 25599-25607 (2014). (IF: 3.148)
- Landobasa Y. M. Tobing, Liliana Tjahjana, Dao Hua Zhang, Qing Zhang, Qihua Xiong, “Deep subwavelength fourfold rotationally symmetric split-ring-resonator metamaterials for highly sensitive and robust biosensing platform,” *Nature: Sci. Rep.* 3, 2437 (2013). (IF:5.47)
- L. Y. M. Tobing, L. Tjahjana, D. H. Zhang, “Direct patterning of high density sub-15-nm gold dot arrays using ultrahigh contrast electron beam lithography process on positive tone resist”, *Nanotechnology*, 24, 075303, 2013. (IF: 3.573)

Recent awards

National Day Award: Long service medal 2016

Commendation Award, 2016

Nominated for Singapore “President’s Technology Award”, 2011 by NTU

Best paper award at ICMAT 2011.

Best paper award at Photonics Global Conference 2010, sponsored by Nature Photonics, NTU and IEEE Photonics society.

Fellow of the Institute of Physics (UK) – Since 2006.