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■ 教育经历：

2015年9月--2019年9月，新加坡科技与设计大学(SUTD)，博士

■ 工作经历：

2021年12月--至今，桂林电子科技大学光电工程学院，教师

2020年1月--2021年12月，北京大学物理学院，博士后

2014年8月--2015年9月，新加坡科技与设计大学(SUTD)，Research Assistant

■ 学术论文：

- (1)Y. Ge, F. Wang, Y. Yang, **Y. Xu**, Y. Ye, Y. Cai, Q. Zhang, S. Cai, D. Jiang, X. Liu, B. Liedberg, J. Mao*, Y. Wang*, "Atomically thin TaSe₂ film as a high-performance substrate for surface-enhanced raman scattering", *Small* (2022) DOI: 10.1002/smll.202107027.
- (2)J. Zhang, B. Jiang, Y. B. Song, and **Y. Xu***, "Surface Phonon Resonance enhanced Goos-Hänchen shift and its sensing application in the mid-infrared region", *Optics Express* **29**, 32973 (2021).
- (3)**Y. Xu***, L. Wu, and L. K. Ang, "Ultrasensitive optical temperature transducers based on surface plasmon resonance enhanced composited Goos-Hänchen and Imbert-Fedorov shifts", *IEEE Journal of Selected Topics in Quantum Electronics* **27**, 4601508 (2021).
- (4)**Y. Xu**, J. Y. Liu, W. J. Liu*, and Y. F. Xiao, "Nonreciprocal phonon laser in a spinning microwave magnomechanical system", *Physical Review A* **103**, 053501 (2021). **(Editors' Suggestion)**
- (5)T. Q. Xie, Y. He*, Y. F. Yang, H. F. Zhang, and **Y. Xu***, "Highly sensitive surface plasmon resonance sensor based on graphene-coated U-shaped fiber", *Plasmonics* **16**, 205 (2021).
- (6)D. Roy, **Y. Xu**, R. Rajendra, L. Wu, P. Bai*, and N. Ballav*, "Gold Nanobeads: Seed- Mediated Synthesis and the Emergence of Three Plasmonic Peaks", *The Journal of Physical Chemistry Letters* **11**, 3211 (2020).
- (7)**Y. Xu***, L. Wu, and L. K. Ang*, "Surface exciton polaritons: a promising mechanism for sensing applications", *Physical Review Applied* **12**, 024029 (2019).
- (8)**Y. Xu***, P. Bai, X. Zhou, Y. Akimov, C. E. Png, L. K. Ang*, W. Knoll*, and L. Wu*, "Optical refractive index sensors with plasmonic and photonic structures: promising and inconvenient truth", *Advanced Optical Materials* **7**, 1801433 (2019). **(高被引论文)**
- (9)**Y. Xu**, Y. S. Ang, L. Wu, and L. K. Ang*, "High sensitivity surface plasmon resonance sensor based on two-dimensional MXene and transition metal dichalcogenide: a theoretical study", *Nanomaterials* **9**, 165 (2019).
- (10)C. T. Yang#, **Y. Xu**#, M. Pourhassan-Moghaddam, D. P. Tran, L. Wu, X. Zhou, and B. Thierry*, "Surface Plasmon Enhanced Light Scattering Biosensing: Size Dependence on the Gold Nanoparticle Tag", *Sensors* **19**, 323 (2019).
- (11)**Y. Xu**, C. Y. Hsieh, L. Wu, and L. K. Ang*, "Two-dimensional transition metal dichalcogenides mediated long range surface plasmon resonance biosensors", *Journal of Physics D: Applied Physics* **52**, 065101 (2019).
- (12)**Y. Xu**, L. Wu, and L. K. Ang*, "MoS₂-based Highly Sensitive Near-infrared Surface Plasmon Resonance Refractive index Sensor", *IEEE Journal of Selected Topics in Quantum Electronics* **25**, 4600307 (2019).
- (13)**Y. Xu** and L. K. Ang*, "Guided modes in a double-well asymmetric potential of a graphene waveguide", *Electronics* **5**, 87 (2016).
- (14)**Y. Xu** and L. K. Ang*, "Guided modes in a triple-well graphene waveguide: analogy of five-layer optical waveguide", *Journal of Optics* **17**, 035005 (2015).
- (15)**Y. Xu**, Y. He*, Y. Yang, and H. Zhang, "Electronic band gaps and transport in Cantor graphene superlattices", *Superlattices and Microstructures* **80**, 63-71 (2015).
- (16)**Y. Xu**, Y. He*, and Y. Yang, "Transmission gaps in graphene superlattices with periodic potential patterns", *Physica B: Condensed Matter* **457**, 188-193 (2015).
- (17)**Y. Xu**, Y. He*, and Y. Yang, "Resonant peak splitting in graphene superlattices with one- dimensional periodic potentials", *Applied Physics A (Rapid Communication)* **115**, 721-729 (2014).
- (18)Y. He*, **Y. Xu**, Y. Yang, and W. Huang, "Guided modes in asymmetric graphene waveguides", *Applied Physics A* **115**, 895-902 (2014).
- (19)**Y. Xu**, Y. He*, Y. Yang, "Guide modes in three-dimensional topological insulator waveguide induced by magnetic fields", *Acta Photonica Sinica* **42**, 564-569 (2013).

■ 科研项目：

- (1)中国博士后科学基金面上项目, 表面激子极化激元增强的光束位移及其传感应用研究, 项目编号: 2021M690235, 2021年, 已结题, 主持;
- (2)国家自然科学基金青年基金项目, 石墨烯体系中电子的类光学现象研究, 2013年至2015年, 已结题, 参与。

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