Yue Yu

The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong
Tel: (852) 6480 5297, Email: 1155102146@link.cuhk.edu.hk

RESEARCH INTEREST

Integrated photonic circuits, optomechanics, micro- and nanoelectromechanics, surface acoustic waves, bound states in the continuum, nonlinear photonics, metasurfaces

EDUCATION

09/2017–present Ph.D., Electronic Engineering, The Chinese University of Hong Kong GPA: 3.27/4.00

11/2016–05/2017 Research assistant, The Chinese University of Hong Kong

09/2013–06/2017 B.S., Optical and Electronic Information, Huazhong University of Science and Technology, China GPA: 90.27/100 17/341

HONORS AND AWARDS

2021 Best Paper Award-First Runner Up, 21st IEEE Photonics Society (HK) Postgraduate Conference

2016 "Shangguang Elite Class" Scholarship

2015 National Encouragement scholarship

2014 National Scholarship

2013 Freshman Scholarship

PUBLICATIONS

Journal Papers († denotes co-first authors)

1. **Yue Yu** and Xiankai Sun, "Surface acoustic microwave photonic filters on etchless lithium niobate integrated platform," 2022. (submitted)
2. Yuan Li, Zunyue Zhang, Yi Wang, **Yue Yu**, Xuetong Zhou, Hon Ki Tsang, and Xiankai Sun, "Inverse-designed linear coherent photonic networks for high-resolution spectral reconstruction," 2022. (submitted)
3. **Yue Yu**, Xiang Xi, and Xiankai Sun, "Observation of mechanical bound states in the continuum in an optomechanical microresonator," 2021. (***Light: Science & Applications*** accepted)
4. **Yue Yu**†, Zejie Yu†, Zunyue Zhang†, Hon Ki Tsang, and Xiankai Sun, "Wavelength-division multiplexing on etchless lithium niobate integrated platform," 2022. (***ACS Photonic*** accepted)
5. Huade Mao†, **Yue Yu**†, Yu-Xuan Ren, Ka Yan Chan, Jiqiang Kang, Xiankai Sun, Edmund Y. Lam, and Kenneth K. Y. Wong, "Neural optimizer for inverse design of complex-modulated hologram implemented by plasmonic metasurfaces," ***Advanced Photonics Research*** 2200085, Aug. 2022.
6. Fan Ye, **Yue Yu**, Xiang Xi, and Xiankai Sun, "Second-harmonic generation in etchless lithium niobate nanophotonic waveguides with bound states in the continuum," ***Laser & Photonics Reviews*** 16: 2100429, Jan. 2022.
7. **Yue Yu**, Lai Wang, and Xiankai Sun, "Demonstration of on-chip gigahertz acousto-optic modulation at near-visible wavelengths," ***Nanophotonics*** 10 (17): 4323–4329, Dec. 2021.
8. **Yue Yu**, Zejie Yu, Lai Wang, and Xiankai Sun, "Ultralow-loss etchless lithium niobate integrated photonics at near-visible wavelengths," ***Advanced Optical Materials*** 9 (19): 2100060, Oct. 2021.
9. Huade Mao†, Yu-Xuan Ren†, **Yue Yu**†, Zejie Yu, Xiankai Sun, Shuang Zhang, and Kenneth K. Y. Wong, "Broadband meta-converters for multiple Laguerre-Gaussian modes," ***Photonics Research*** 9 (9):1689–1698, Sep. 2021.
10. **Yue Yu**, Zejie Yu, and Xiankai Sun, "Nonmetallic broadband visible-light absorbers with polarization and incident angle insensitivity," ***IEEE Photonics Journal*** 12 (6): 2200807, Dec. 2020.

Conference Paper

1. **Yue Yu**†, Zejie Yu†, Zunyue Zhang†, Hon Ki Tsang, and Xiankai Sun, "Wavelength-division multiplexing on etchless lithium niobate integrated platform," **Frontiers in Optics 2022**, Rochester, NY, USA, Oct. 2022.

2. **Yue Yu**, Zejie Yu, Lai Wang, and Xiankai Sun, "Ultralow-loss etchless lithium niobate integrated photonics at near-visible wavelengths," ***CLEO 2022***, San Jose, CA, USA, May 2022.
3. Fan Ye, **Yue Yu**, Xiang Xi, and Xiankai Sun, "Second-harmonic generation in etchless lithium niobate nanophotonic waveguides with bound states in the continuum," ***CLEO 2022***, San Jose, CA, USA, May 2022.
4. **Yue Yu**, Zejie Yu, and Xiankai Sun, "Etchless lithium niobate integrated photonics," ***International Symposium on Lithium Niobate Optoelectronics 2021***, Shanghai, China, Oct. 2021. **[invited]**
5. **Yue Yu**, Zejie Yu, and Xiankai Sun, "Nonmetallic broadband visible-light absorbers with polarization and incident angle insensitivity," ***CLEO 2021***, San Jose, CA, USA, May 2021.
6. **Yue Yu**, Lai Wang, and Xiankai Sun, "Demonstration of on-chip gigahertz acousto-optic modulation at near-visible wavelengths," ***CLEO 2021***, San Jose, CA, USA, May 2021.