

# Yue Yu

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## 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, 21<sup>st</sup> IEEE Photonics Society (HK) Postgraduate Conference  
2016 “Shangguang Elite Class” Scholarship  
2015 National Encouragement scholarship  
2014 National Scholarship  
2013 Freshman Scholarship

## PROFESSIONAL ACTIVITIES

### ✧ Journal reviewer

- Optics Express
- Journal of Lightwave Technology

## 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**, Xuotong Zhou, Hon Ki Tsang, and Xiankai Sun, "Inverse-designed linear coherent photonic networks for high-resolution spectral reconstruction," 2022. (In Review, minor revision)
3. **Yue Yu**, Xiang Xi, and Xiankai Sun, "Observation of mechanical bound states in the continuum in an optomechanical microresonator," 2021. (*Light: Science & Applications* IF = 20.257, accepted)
4. **Yue Yu**<sup>†</sup>, Zejie Yu<sup>†</sup>, Zunyue Zhang<sup>†</sup>, Hon Ki Tsang, and Xiankai Sun, "Wavelength-division multiplexing on etchless lithium niobate integrated platform," 2022. (*ACS Photonics* IF = 7.077, accepted)
5. Huade Mao<sup>†</sup>, **Yue Yu**<sup>†</sup>, 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. (IF = 10.947)
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. (IF = 7.923)
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. (IF = 10.050)
9. Huade Mao<sup>†</sup>, Yu-Xuan Ren<sup>†</sup>, **Yue Yu**<sup>†</sup>, 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. (IF = 7.254)

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. (IF = 2.250)

### **Conference Paper**

1. **Yue Yu**, Xiang Xi, and Xiankai Sun, "Observation of mechanical bound states in the continuum in an optomechanical microresonator," *Frontiers in Optics 2022*, Rochester, NY, USA, Oct. 2022. **[postdeadline]**
2. **Yue Yu**<sup>†</sup>, Zejie Yu<sup>†</sup>, Zunyue Zhang<sup>†</sup>, Hon Ki Tsang, and Xiankai Sun, "Wavelength-division multiplexing on etchless lithium niobate integrated platform," *Frontiers in Optics 2022*, Rochester, NY, USA, Oct. 2022.
3. **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.
4. 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.
5. **Yue Yu**, Zejie Yu, and Xiankai Sun, "Etchless lithium niobate integrated photonics," *International Symposium on Lithium Niobate Optoelectronics 2021*, Shanghai, China, Oct. 2021. **[invited]**
6. **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.
7. **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.