

# 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

## BACKGROUND

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	TOEFL: 89 IELTS: 7.0
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. (*ACS Photonics*, accepted)
3. **Yue Yu**, Xiang Xi, and Xiankai Sun, "Observation of mechanical bound states in the continuum in an optomechanical microresonator," *Light: Science & Application* **11**, 328 (2022).
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," *ACS Photonics* **9** (10): 3253-3259, Oct. 2022.
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.
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<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](#).
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**, 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.