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, 21st 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**, 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*** IF = 20.257 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 Photonics*** IF = 7.077 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. (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†, 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. (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**†, 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.