

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**, 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, 3/101 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, 13/101 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, 6/101)
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, 11/101)
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, 9/101)
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, 12/101)

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, 60/101)

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**[†], 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.
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.