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, 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
- Journal of the Optical Society of America B

PUBLICATIONS

Journal Papers († denotes co-first authors)

1. Zejie Yu, He Gao, Yi Wang, **Yue Yu**, Hon Ki Tsang, Xiankai Sun, and Daoxin Dai, "Fundamentals and applications of photonic waveguides with bound states in the continuum," 2023. (submitted)
2. **Yue Yu** and Xiankai Sun, "Etchless photonic integrated circuits enabled by bound states in the continuum: tutorial," 2023. (submitted)
3. **Yue Yu** and Xiankai Sun, "Surface acoustic microwave photonic filters on etchless lithium niobate integrated platform," 2022. (submitted)
4. Xiao-Jing Liu†, **Yue Yu**†, Di Liu, Qi-Long Cui, Xiao-Zhuo Qi, Yang Chen, Guang-Yuan Qu, Li Song, Guo-Ping Guo, Guang-Can Guo, and Xiankai Sun, Xi-Feng Ren, "Coupling of Photon Emitters in Monolayer WS_2 with a Photonic Waveguide Based on Bound States in the Continuum," 2022. (submitted)
5. 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," ***ACS Photonics***, Jan. 2023. DOI: 10.1021 **[featured as cover article]**
6. **Yue Yu**, Xiang Xi, and Xiankai Sun, "Observation of mechanical bound states in the continuum in an optomechanical microresonator," ***Light: Science & Applications*** 11, 328, Nov. 2022.
7. **Yue Yu**†, Zejie Yu†, Zunyue Zhang†, Hon Ki Tsang, and Xiankai Sun, "Wavelength-division multiplexing on etchless lithium niobate integrated platform," ***ACS Photonics*** 9 (10): 3253–3259, Oct. 2022.
8. 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*** 4 (1): 2200085, Jan. 2023.

9. 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, Mar. 2022.
10. **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.
11. **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.
12. 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.
13. **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** and Xiankai Sun, "Surface acoustic microwave photonic filters on etchless lithium niobate integrated platform," CLEO 2023, San Jose, CA, USA, May 2023.
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," CLEO 2023, San Jose, CA, USA, May 2023. (submitted)
3. **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]**
4. **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.
5. **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.
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," ***CLEO 2022***, San Jose, CA, USA, May 2022.
7. **Yue Yu**, Zejie Yu, and Xiankai Sun, "Etchless lithium niobate integrated photonics," ***International Symposium on Lithium Niobate Optoelectronics 2021***, Shanghai, China, Oct. 2021. **[invited]**
8. **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.
9. **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.