

Session Title:	[Tu1D] Novel Nonlinear Devices 1
Session Date:	August 6 (Tue.), 2024
Session Time:	11:00-12:30
Session Room:	Room D (113)
Session Chair(s)	Dr. Moritz Merklein (The Univ. of Sydney, Australia)

[Tu1D-1] [Invited] 11:00-11:30

Nonlinear Photonics with Resonant Optical Structures

Yuri Kivshar (The Australian Nat'l Univ., Australia)

[Tu1D-2] 11:30-11:45

Soliton Microcomb Generation with Low Pump Powers in Normal Dispersion Lithium Niobate Microdisks by Mode Recombination

Botao Fu, Jintian Lin (Shanghai Inst. of Optics and Fine Mechanics, China), Renhong Gao (East China Normal Univ., China), and Ya Cheng (Shanghai Inst. of Optics and Fine Mechanics, China)

[Tu1D-3] 11:45-12:00

Two-octave-spanning Supercontinuum Generation in Gallium Nitride Waveguides

Zhaoqin He, Yuqian Zhang (Beijing Nat'l Research Center for Information Science and Tech. of Tsinghua Univ., China), Yongyuan Chu, Lu Yang (Shanghai Univ., China), Bing Xiong, Jian Wang, Zhibiao Hao, Lai Wang, Yanjun Han, Hongtao Li, Lin Gan, Yi Luo (Beijing Nat'l Research Center for Information Science and Tech. of Tsinghua Univ., China), Hairun Guo (Shanghai Univ., China), and Changzheng Sun (Beijing Nat'l Research Center for Information Science and Tech. of Tsinghua Univ., China)

[Tu1D-4] 12:00-12:15

Broadband Mid-infrared Kerr Comb Generation in Suspended AlGaAs Microresonators

Yuqian Zhang (Beijing Nat'l Research Center for Information Science and Tech. of Tsinghua Univ., China), Qibing Sun (Xi'an Inst. of Optics and Precision Mechanics, Chinese Academy of Sciences, China), Bing Xiong, Jian Wang, Zhibiao Hao, Lai Wang, Yanjun Han, Hongtao Li, Lin Gan, Yi Luo (Beijing Nat'l Research Center for Information Science and Tech. of Tsinghua Univ., China), Leiran Wang, Wenfu Zhang (Xi'an Inst. of Optics and Precision Mechanics, Chinese Academy of Sciences, China), and Changzheng Sun (Beijing Nat'l Research Center for Information Science and Tech. of Tsinghua Univ., China)

[Tu1D-5]

12:15-12:30

Octave-spanning Supercontinuum Generation in Suspended AlGaAs Waveguides

Yuqian Zhang, Zhaoqin He (Beijing Nat'l Research Center for Information Science and Tech. of Tsinghua Univ., China), Yongyuan Chu, Lu Yang (Shanghai Univ., China), Bing Xiong, Jian Wang, Zhibiao Hao, Lai Wang, Yanjun Han, Hongtao Li, Lin Gan, Yi Luo (Beijing Nat'l Research Center for Information Science and Tech. of Tsinghua Univ., China), Hairun Guo (Shanghai Univ., China), and Changzheng Sun (Beijing Nat'l Research Center for Information Science and Tech. of Tsinghua Univ., China)