

Session Title:	[We3B] Nonlinear Phenomena in the Mid-Infrared
Session Date:	August 7 (Wed.), 2024
Session Time:	15:45-17:15
Session Room:	Room B (104-106)
Session Chair(s)	Prof. Jongwon Lee (UNIST, Korea)

[We3B-1] [Invited] 15:45-16:15

Brillouin Lasing and Dispersive Wave Generation in the Mid-IR Using On-chip Chalcogenide Glass Platforms

Hansuek Lee, Daewon Suk, Kiyoungh Ko, Soobong Park, Dohyeong Kim, Seong Cheol Lee (KAIST, Korea), Rongping Wang (Ningbo Univ., China), Kwang-Hoon Ko (KAERI, Korea), Fabian Rotermund (KAIST, Korea), and Duk-Yong Choi (The Australian Nat'l Univ., Australia)

[We3B-2] 16:15-16:30

Efficient Mid-Infrared Dispersive Wave Generation at  $3\ \mu\text{m}$  in the Dispersion Engineered Side-slotted Ridge Silicon Waveguide

Ruifeng Chen, Feng Ye, Jiayao Huang, and Qian Li (Peking Univ., China)

[We3B-3] 16:30-16:45

High-Energy Mid-Infrared Femtosecond Pulse Generation via Four-Wave Mixing in Gas-Filled Hollow-Core Fiber

Ruhai Bai, Trivikramarao Gavara, Yuxi Wang, Daiqi Xiong, Ang Deng, Kevin Hean, Shuaihao Ji, Xu Wu, and Wonkeun Chang (Nanyang Technological Univ., Singapore)

[We3B-4] 16:45-17:00

Mid-IR Supercontinuum Source on a Chip with Tailored Dispersive Waves for Target Gas Sensing

Soobong Park, Seong Cheol Lee, Daewon Suk (KAIST, Korea), Won Bae Cho (ETRI, Korea), Duk-Yong Choi (The Australian Nat'l Univ., Australia), Kwang-Hoon Ko (KAERI, Korea), Fabian Rotermund, and Hansuek Lee (KAIST, Korea)

[We3B-5] 17:00-17:15

Multi-Quantum Stretching and Rotating Excitation of Carbon Dioxide via Intense Mid-Infrared Laser Pulses

Ikki Morichika, Hiroki Tsusaka, and Satoshi Ashihara (The Univ. of Tokyo, Japan)