

<b>Session Title:</b>	<b>[We3B] Nonlinear Phenomena in the Mid-Infrared</b>
<b>Session Date:</b>	<b>August 7 (Wed.), 2024</b>
<b>Session Time:</b>	<b>15:45-17:15</b>
<b>Session Room:</b>	<b>Room B (104-106)</b>
<b>Session Chairs</b>	<b>TBA</b>

**[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)