

Session Title:	[Mo1B] Ultrafast and Nonlinear Optics in Emerging Materials I
Session Date:	August 5 (Mon.), 2024
Session Time:	10:30-12:00
Session Room:	Room B (104-106)
Session Chair(s)	Prof. Jonghwan Kim (POSTECH, Korea)

[Mo1B-1] [Invited] 10:30-11:00

Second Harmonic Generation from Centrosymmetric Graphene Induced by Interfacial Charge Doping

Xuetao Gan and Mingwen Zhang (Northwestern Polytechnical Univ., China)

[Mo1B-2] 11:00-11:15

BIC-Stimulated Harmonic Generation in Dielectric Metasurfaces Integrated with Transition Metal Dichalcogenide Monolayers

A. A. Nazarenko, A.M.Chernyak, A.I.Musorin, A.S.Shorokhov, and A. A. Fedyanin (Lomonosov Moscow State Univ., Russia)

[Mo1B-3] 11:15-11:30

Upconversion Nanoparticle Thin Film Amplifier of Third Harmonic Generation

Taewon Kim, Seungjai Won (KAIST, Korea), Geon Dae Kim, Won-woo Noh, Murad Abualrejal (Sungkyunkwan Univ., Korea), Seung-Woo Kim (KAIST, Korea), Donghwan Kim (Sungkyunkwan Univ., Korea), and Young-Jin Kim (KAIST, Korea)

[Mo1B-4] 11:30-11:45

Efficient Polarization-Insensitive Second Harmonic Generation via Bound States in the Continuum

Kezhou Fan (Hong Kong Univ. of Science and Tech., Hong Kong S.A.R), Haohan Chen (South China Normal Univ., China), Aleksandr A. Sergeev (Hong Kong Univ. of Science and Tech., Hong Kong S.A.R), Lijun Wu (South China Normal Univ., China), and Kam Sing Wong (Hong Kong Univ. of Science and Tech., Hong Kong S.A.R)

[Mo1B-5] 11:45-12:00

Strong Enhancement of Nonlinear Optical Response in BaTiO₃ Membrane Wrinkle Structure on a Metal Substrate

Jungseok Choi, Gyeongmo Yang, Youngmin Kim, Tayyaba Batool, Hyungwoo Lee, and Dong-



Il Yeom (Ajou Univ., Korea)