

<b>Session Code</b>	<b>[05] TuE3</b>
<b>Session Title</b>	Two Dimensional Electronics, Photonics, and Optoelectronics 3
<b>Date and Time</b>	Tuesday, October 5, 2021 / 15:40-17:05
<b>Session Room</b>	Room E (303)
<b>Session Chair(s)</b>	Kibum Kang (KAIST, Korea) Jae-Ung Lee (Ajou Univ., Korea)

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**[[05] TuE3-1] Invited Talk** **15:40-16:05**

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**Extrinsically Doped Two-Dimensional Semiconductors**

Joonki Suh (*UNIST, Korea*)

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**[[05] TuE3-2]** **[Online] 16:05-16:20**

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**Enhanced Photoluminescence of Two-Dimensional Van der Waals Heterostructures Fabricated by Layer-by-Layer Oxidation of MoS<sub>2</sub>**

Sojung Kang (*Yonsei Univ., Korea*), Yoon Seok Kim (*Korea Univ., Korea*), Jae Hwan Jeong, Junyoung Kwon, Jong Hun Kim (*Yonsei Univ., Korea*), Yeonjoon Jung (*Seoul Nat'l Univ., Korea*), Jong Chan Kim (*Ulsan Nat'l Inst. of Science and Tech., Korea*), Bumho Kim (*Columbia Univ., USA*), Sang Hyun Bae, Pinshane Y. Huang (*Univ. of Illinois, USA*), James C. Hone (*Columbia Univ., USA*), Hu Young Jeong (*Ulsan Nat'l Inst. of Science and Tech., Korea*), Jin-Woo Park (*Yonsei Univ., Korea*), Chul-Ho Lee (*Korea Univ., Korea*), and Gwan-Hyoung Lee (*Seoul Nat'l Univ., Korea*)

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**[[05] TuE3-3]** **16:20-16:35**

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**Low-Temperature and High-Quality Growth of Bi<sub>2</sub>O<sub>2</sub>Se Layered Semiconductors via Cracking Metal-Organic Chemical Vapor Deposition**

Hyun-Jun Chai, Minsoo Kang, Han Beom Jung, Cheolmin Park (*KAIST, Korea*), In-Young Jung (*Hanyang Univ. and KRISS, Korea*), Eunpyo Park (*KIST, Korea*), Mert Miraç Çiçek (*Ankara Univ. and Bilkent Univ., Turkey*), Injun Lee, Byeong-Soo Bae (*KAIST, Korea*), Engin Durgun (*Bilkent Univ., Turkey*), Joon Young Kwak (*KIST, Korea*), Seungwoo Song (*KRIST, Korea*), Sung-Yool Choi (*KAIST, Korea*), Hu Young Jeong (*UNIST, Korea*), and Kibum Kang (*KAIST, Korea*)

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**[[05] TuE3-4]** **[Online] 16:35-16:50**

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**Analysis of Persistent Photoconductivity in ReS<sub>2</sub> Thin Film Transistor**

JeJun Lee and Jin-Hong Park (*Sungkyunkwan Univ., Korea*)

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**[[05] TuE3-5]** **[Online] 16:50-17:05**

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**Temperature Gradient Modulation of MoTe<sub>2</sub> for Phase and Composition Engineering via Van Der Waals Encapsulation**

Huije Ryu, Yunah Lee (*Seoul Nat'l Univ., Korea*), Jae Hwan Jung, Yangjin Lee (*Yonsei Univ., Korea*), Yeryun Cheon (*Sogang Univ., Korea*), Kwanpyo Kim (*Yonsei Univ., Korea*), Hyeonsik Cheong (*Sogang Univ., Korea*), and Gwan-Hyoung Lee (*Seoul Nat'l Univ., Korea*)