

<b>Session Code</b>	<b>[05] ThE1</b>
<b>Session Title</b>	Theory and Simulation of 2D Materials
<b>Date and Time</b>	Thursday, October 7, 2021 / 10:40-11:50
<b>Session Room</b>	Room E (303)
<b>Session Chair(s)</b>	Jae-Ung Lee (Ajou Univ., Korea)

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**[[05] ThE1-1] Keynote Talk** **[Online] 10:40-11:10**

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Two-Dimensional Transition Metal Carbides and Borides

Zhimei Sun and Jian Zhou (*Beihang Univ., China*)

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**[[05] ThE1-2] Invited Talk** **11:10-11:35**

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Tuning the Electronic Properties of Two-Dimensional Transition Metal Selenides and Its Applications: First-Principles Study

Won June Kim (*Changwon Nat'l Univ., Korea*)

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**[[05] ThE1-3]** **11:35-11:50**

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Identification of Monolayer Graphene Substitutions by Deep Learning Based Exit-Wave Reconstruction from Single Atomic-Resolution Transmission Electron Microscope Image

Jongyeong Lee, Yeongdong Lee, Jaemin Kim, Handolsam Chung, and Zonghoon Lee (*IBS, Korea and UNIST, Korea*)