

## [TS16T4]

### Computational Materials and Data Science for Nanotechnology 4

<b>Date &amp; Time</b>	July 4(Thu.), 2024 / 14:00–15:35
<b>Place</b>	Room 213
<b>Session Chair(s)</b>	Hyungjun Kim (KAIST)

**TS16T4\_I\_1 \*Invited** 14:00–14:30

**Ab Initio Quantum Dynamics of Electronic Excitations in Quantum Dots: Semiconducting, Metallic and Perovskites**

Oleg Prezhdo

*(University of Southern California)*

**TS16T4\_I\_2 \*Invited** 14:30–15:00

**Towards Defect Engineering in Memristors based on Low-Dimensional Materials**

Roozbeh Anvari, Brian H. Lee, and Wennie Wang

*(The University of Texas at Austin)*

**TS16T4\_O\_3** 15:00–15:20

**Overcoming the Traditional N-type Doping Limit of Si through Chalcogen Doping**

Youngho Kang

*(Incheon National University)*

**TS16T4\_O\_4** 15:20–15:35

**A Realistic Deep Learning Model for Dielectric Nanomaterials**

Sejun Kim and Hyungjun Kim

*(KAIST)*