

[TS16F6]**Computational Materials and Data Science for Nanotechnology 6**

Date & Time	July 5(Fri.), 2024 / 09:00-10:15
Place	Room 213
Session Chair(s)	Yongwoo Kwon (Hongik Univ.)

TS16F6_I_1 *Invited 09:00-09:30**Optimizing MXenes for the Future: Single Atom Catalyst, Electronic Transport and Spintronic Applications**

Seung-Cheol Lee
(KIST)

TS16F6_O_2 09:30-09:45**A Phase-Field Model Coupled with Genetic Algorithm: Application to Ferroelectric Switching in Nanograins of HZO Thin Film**

Sandeep Sugathan¹, Krishnamohan Thekkepat², Jiyoun Kim³, and Pil-Ryung Cha¹
(¹Kookmin University, ²KIST, ³The University of Texas at Dallas)

TS16F6_O_3 09:45-10:00**Phase-Field Study on Grain Refinement of Al-Si Alloys**

Dong-Uk Kim and Pil-Ryung Cha
(Kookmin University)

TS16F6_O_4 10:00-10:15**Study on Multifunctional Metal Oxide Nanocomposite Bandage for Application in Bone Regeneration**

Pritam Das¹, Yu-Chan Kim², and Pil-Ryung Cha¹
(¹Kookmin University, ²KIST)