

# Joint International Conference on The 8th ICMAP & The 9th ISFM

January 17-20, 2021 | Online Conference

## [TA1] 2D Materials and Nanoparticle Applications

Date / Time	January 19 (Tue.), 2021 / 09:00-10:40
Place	Channel A
Session Chair(s)	Jihyun Kim (Inha Univ., Korea)

[TA1-1]

09:00-09:20

### Long-Term Deposition of Dried Nanoparticles on Substrates with Exceptional Redispersibility, Stability, and Functionality

Sunhwan Jeong, Hui Hun Cho, Su Ji Kim, Ali Turab Jafry, Jung Heon Lee, and Jin Kee Lee  
*Sungkyunkwan Univ., Korea*

[TA1-2]

09:20-09:40

### Bioinspired Assembly of Multifunctional Carbon Nanotube Nanocomposites

Junhyuck Chang, Kyung-Il Kim, and Jung Heon Lee  
*Sungkyunkwan Univ., Korea*

[TA1-3]

09:40-10:00

### Diagnostic Method of Abnormal Temperature in Rotating Equipment by Infrared Thermography

Jun-Su Lee<sup>1</sup>, Seon-Woo Lee<sup>1</sup>, Ju-Sik Kim<sup>2</sup>, I-Seul Jeon<sup>2</sup>, Gang-Min Lim<sup>3</sup>, Jang-Woo Kwon<sup>1</sup>, and Joo-Hyung Kim<sup>1</sup>  
*<sup>1</sup>Inha Univ., Korea, <sup>2</sup>Korea Hydro and Nuclear Power Co., Korea, <sup>3</sup>ATG Co., Korea*

[TA1-4]

10:00-10:20

### Reductant-Free Synthesis of Oxygen Vacancies-Mediated TiO<sub>2</sub> Nanocrystals with Enhanced Photocatalytic NO Removal Performance

Zhanyong Gu, Takuya Hasegawa, Yusuke Asakura, and Shu Yin  
*Tohoku Univ., Japan*

[TA1-5]

10:20-10:40

### Spectral Properties of Microplastics Floating on Water in Near-Infrared Spectra Range

Jihyun Kim, Seohyun Jang, and Joo-Hyung Kim  
*Inha Univ., Korea*