

## Korea-Vietnam Session on Applied Physics

**Date & Time** Dec. 8 (Fri) 09:20~16:15

**Place** 8F, Ara Hall [\[Offline Only\]](#)

**Organized by** BeCaP SRC, Chung-Ang University, Korea  
 BK21 University of Ulsan, Korea  
 Vietnam Materials Research Society, Vietnam Physical Society



Time (Korea Time)	Presenter	Title
<b>Dec. 8 (Fri) 09:20~11:30,   Session 1   Chair: Sunglae Cho (Ulsan University, Korea) / Noejung Park (Ulsan National Institute of Science &amp; Technology)</b>		
09:20-09:30	Opening Address	
09:30-09:50	Nguyen Duc Chien (Vietnam Physical Society )	Role of Vietnam Physical Society and Vietnam Materials Research Society in developing semiconductor industry in Vietnam
09:50-10:10	Jae-Sung Kim (Sookmyung Women's University)	Nanoscale pattern formation at surfaces by ion beam irradiation
10:10-10:30	Pham Thanh Huy ( Phenikaa University)	Naturally grown ZnO/ZnS alloy heterostructure microcavity with ultralow lasing threshold
10:30-10:50	CheolGi Kim ( Daegu Gyeongbuk Institute of Science and Technology)	Magnetic MEMS devices for biomedical advancements
10:50-11:10	Duc Anh Phan (Phenikaa University)	Facilitating the design of broadband solar metamaterial absorbers through simulation and machine learning
11:10-11:30	Maeng-Je Seong (Chung-Ang University)	Negative valley polarization of the intralayer exciton in H-type heterobilayer WS <sub>2</sub> /MoS <sub>2</sub>
<b>Dec. 8 (Fri) 13:00~15:00   Session 2   Chair: Pham Thanh Huy ( Phenikaa University, Vietnam)</b>		
13:00-13:20	Noejung Park (Ulsan National Institute of Science & Technology)	First-principles study of light-matter interactions and related fast dynamics in the window of condensed matter physics
13:20-13:40	Cao-Khang Nguyen (Hanoi National University of Education)	Photocatalytic application based on TiO <sub>2</sub> nanoparticles
13:40-14:00	Key Young Oang (Korea Atomic Energy Research Institute)	Visualizing ultrafast structural dynamics using time-resolved electron diffraction
14:00-14:20	Anh Tuan Duong ( Phenikaa University)	Thermoelectric properties of liquid-like compound Cu <sub>2</sub> Se/Te
14:20-14:40	Sunglae Cho (Ulsan University)	2D semiconducting $\alpha$ -In <sub>2</sub> Se <sub>3</sub> single crystals: Growth and huge anisotropy during transport
14:40-15:00	Huu Tuan Nguyen ( Phenikaa University )	Enhancing Quantum Dot Light-Emitting Diode Performance through Ligand Modification
<b>Dec. 8 (Fri) 15:15-16:15   Session 3   Chair: Nguyen Van Chien (Phenikaa University, Vietnam) / Maeng-Je Seong (Chung-Ang University, Korea)</b>		
15:15-16:15	Discussion for collaborations	