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Organized by

- Applied Physics Division, The Korean Physical Society
- Center for Artificial Low Dimensional Electronic Systems, Institute for Basic Science
- Korean Graphene Society
- Quantum Metamaterials Research Center
- Van der Waals Materials Research Center
- Center for Topological Matter
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Po-En17-049

Large scale synthesis of nitrogen doped carbon coated nanoparticle based electrocatalyst
Samuel Woojoo Jun, Taeghwan Hyeon
(Seoul National University)

Po-En17-050

MnO₂- graphene oxide composite electrode for electrochemical supercapacitor
Dipali S. Patil, Sachin A. Pawar, Jae Cheol Shin
(Yeungnam University)

Po-En17-052

Interface-Confined High Crystalline Growth of Semiconducting Polymers at Graphene Fibers
Suchithra Padmajan Sasikala, Kyung Eun Lee, Sang Ouk Kim
(Korea Advanced Institute of Science and Technology)

Po-En17-053

Anomalous sign difference between Hall and Seebeck coefficients and polaronic transport in topological crystalline insulator Pb_{1-x}Sn_xTe
Gareoung Kim, Jong-Soo Rhyee
(Kyung Hee University)

Photonics, plasmonics and metamaterials

Po-Ph17-001

Dual-band electromagnetically-induced transparency-like effect in bright-bright-mode coupling of metamaterials
J. S. Hwang*, Y. J. Yoo*, Y. J. Kim*, H. M. Son*, B. S. Tung*, K. W. Kim**, J. Y. Rhee***, S. Y. Park****, Y. P. Lee*
(*Hanyang University, **Sunmoon University, ***Sungkyunkwan University, ****Seoul National University)

Po-Ph17-002

Wide-band and ultrathin metamaterial absorber, based on embedded resistors
Young Ju Kim*, Ji Sub Hwang*, Bui Xuan Khuyen*, Hye Mi Son*, Joo Yull Rhee**, Won Kim***, Sang Yoon Park****, YoungPak Lee*
(*Hanyang University, **Sungkyunkwan University, ***Sunmoon University, ****Seoul National University)

Po-Ph17-003

Sensitivity enhancement of relative humidity sensor with few-mode microfiber knot resonator by suppressing group index difference
Duy Duong Anh Le, Ju Il Hwang, Young-Geun Han
(Hanyang University)

Po-Ph17-004

Nano-gap effect for PL enhancement of WSe₂ on gold nanopost array
SunGyu Kim*, Jun Young Kim*, Jeongyong Kim**, Jinsoo Joo*
(*Korea University, **Sungkyunkwan University)

Po-Ph17-005

Design and analysis of a plasmon-enhanced blazed wire-grid polarizer
Changhun Lee, Donghyun Kim
(Yonsei University)

Po-Ph17-006

Nano-Wire-Grid Polarizers Using Selective Metal Deposition on 1D Nano Patterned Silicon Substrate
Wonyoung Kim, Minsuk Kim, Tae Young Kim, Sungmin Hwang, Minbaek Lee, Chang Kwon Hwangbo
(Inha University)

Po-Ph17-007

Study of charge mechanism in surface enhanced Raman scattering (SERS) observed from 4-Mpy molecules adsorbed on 1-D ZnO nanostructures
Jayeong Kim*, Junbeom Park**, Hyemin Kim*, Gyu-Chul Yi**, Namjung Kim***, Seokhyun Yoon*
(*Ewha Womans University, **Seoul National University, ***Korea Military Academy)

Po-Ph17-008

Epsilon-Near-Zero and Epsilon-Near-Pole of ITO bilayer coatings on Si grating
Tae Young Kim*, Seoyoung Kim*, Minsuk Kim*, Young Chul Jun**, Chang KWon Hwangbo*
(*Inha University, **Ulsan National Institute of Science and Technology)

Po-Ph17-009

White emission mixed with ZnO and ZnO-Graphene quantum dots by UV excitation
Won Kook Choi*, Honghee Kim*, Yeonju Lee**, Cheolmin Park**
(*Korea Institute of Science and Technology, **Yonsei University)