

International Workshop on Metamaterials and Plasmonics
in the 15th Conference on Optoelectronics and Optical Communications
(COOC 2008)

May 14-16, 2008, Haewoondai Hanhwa Resort, Busan, Korea

May 14 (Wed), Jinju Hall (3rd floor)

Registration desk: 3rd floor

Registration hours: 9:30-17:00

10:00-10:10 Opening Ceremony

Welcome address: Dai-Sik Kim (Workshop Co-Chair)

Congratulatory address: Hanjo Lim (Ajou University, Korea)

10:10-10:50 Session I – Spin Photonic Crystals

Presider: Seung-Han Park (Yonsei University, Korea)

10:10-10:50

(Invited I) Spin Photonic Crystals, Comprising Composed Metamaterials Structures

YoungPak Lee

Hanyang University, Korea

10:50-11:00 Break

11:00-12:30 Session II – Photonic Crystals and Nano-Structures

Presider: Kyoung-Youm Kim (Sejong University, Korea)

11:00-11:30

(Invited II-1) Optical Responses of Metallic Photonic Crystal Slabs

Teruya Ishihara

Tohoku University, Japan

11:30-11:50

(Invited II-2) Enhancement of Light Transmission through a Pyramidal Probe via

Optical Pulling

Seong Soo Choi¹, O.Suwal¹, V. Jha¹, and M. J. Park²

¹ SunMoon University, Korea

² Korea Military Academy, Korea

11:50-12:10

(Invited II-3) Observation of Strong Surface Plasmon Scattering in Cu-nanowires

Sang-Youp Yim¹, Koo-Chul Je², Chang Woo Park³, Honglyoul Ju⁴, and Seung-Han Park⁴

¹ GIST, Korea

² Pai Chai University,, Korea

³ Hanbat National University, Korea

⁴ Yonsei University, Korea

12:10-12:30

(Invited II-4) Single-nanowire Photonic Structures

Hong-Gyu Park

Korea University, Korea

12:30-14:00 Lunch

14:00-15:30 Invited Session III – Nano-Structure Applications

Presider: Namkyoo Park (Seoul National University, Korea)

14:00-14:30

(Invited III-1) Ultrafast and Low Pump All-Optical Switching Performance Based on Organic Photonic Crystal

Qihuang Gong, Xiaoyong Hu, Ping Jiang, Hong Yang

Peking University, China

14:30-14:50

(Invited III-2) Polymer Based Long-Range Surface Plasmon Polariton Waveguides for Optical Printed Circuit Board Applications

Jung Jin Ju¹, Suntak Park¹, Min-su Kim¹, Jin Tae Kim^{1,2}, Seung Koo Park¹, and Myung-

Hyun Lee³

¹ Electronics and Telecommunications Research Institute, Korea

² Korea Advanced Institute of Science and Technology, Korea

³ Sungkyunkwan University, Korea

14:50-15:10

(Invited III-3) Plasmonic Nano Lithography

Yongwoo Kim, Sinjeung Park, Eungman Lee, and Jae W. Hahn

Yonsei University, Korea

15:10-15:30

(Invited III-4) Optical Tunneling in a Layered Structure with Metamaterials

Kyoung-Youm Kim

Sejong University, Korea

15:30-15:50 Break

15:50-17:40 Invited Session IV – Theories and Probing

Presider: Jaehoon Jung (Dankook University, Korea)

15:50-16:20

(Invited IV-1) Highly efficient ($R > 0.9995$) Bragg Mirrors in SOI Ridge Waveguides by Engineering Evanescent Bloch Modes

P. Lalanne, P. Velha and J.C. Rodier

Laboratoire Charles Fabry de l'Institut d'Optique, CNRS, Univ Paris-Sud, France

16:20-16:40

(Invited IV-2) THz Complementary Metamaterials

Chul Kang¹, Ik-Bu Sohn², Jin-Kyu Yang¹, Chul-Sik Kee¹, and Jongmin Lee¹

¹Nanophotonics Laboratory, Advanced Photonics Research Institute and School of Photon Science and Technology, GIST, Gwangju, Korea

²Precision Optics Laboratory, Advanced Photonics Research Institute, GIST, Gwangju, Korea

16:40-17:00

(Invited IV-3) Direct Visualization of Localized Surface Plasmon Waves on Metallic Nanostructures via Apertureless Near-Field Microscopy

Zee Hwan Kim

Department of Chemistry and Center for Photo-Responsive Molecules

Korea University, Seoul, Korea

17:00-17:20

(Invited IV-4) Plasmonic beaming and focusing

Byoungho Lee, Hwi Kim, and Seyoon Kim

Seoul National University, Korea

17:20-17:40

(Invited IV-5) Focusing of Terahertz Waves onto Micron-size Slits

Dai-Sik Kim

Seoul National University, Korea

17:40-17:50 Closing

Closing remark and announcement: Byoungho Lee (Workshop Co-Chair, COOC Co-Chair)