

Belgium and Japan Joint Symposium on Nanoplasmonics and Nanoimaging Chemistry

- 9:00-9:10 Opening Remarks Keiji Sasaki
- 9:10-9:40 Hiroaki Misawa (Hokkaido Univ.)
Plasmon-induced water splitting
- 9:40-10:05 Maarten Roeffaers (KU Leuven)
Four-wave mixing of plasmonic structures
- 10:05-10:25 Tamitake Itoh (AIST)
Re-examination of optical transitions of dye molecules strongly coupled with
plasmonic fields
- 10:25-10:40 Coffee
- 10:40-11:10 Kei Murakoshi (Hokkaido Univ.)
Strong coupling between localized plasmons and dye excitons under
electrochemical potential control
- 11:10-11:30 Kris Janssen (KU Leuven)
Challenges and opportunities for combined SEM and
super-resolution wide-field microscopy
- 11:30-11:50 Kosei Ueno (Hokkaido Univ.)
Plasmonics in terahertz and far-infrared regions
- 11:50-13:00 Lunch
- 13:00-13:30 Johan Hofkens (KU Leuven)
Spying at the nanoscale with single molecules
- 13:30-13:50 Sadahiro Masuo (Kansei Gakuin Univ.)
Control of excitons in a single quantum dot using plasmonic nanostructures

- 13:50-14:10 Hideki Fujiwara (Hokkaido Univ.)
Approach to control of the light emitting devices based on nanoparticles
- 14:10-14:25 Coffee
- 14:25-14:55 Naoto Tamai (Kansei Gakuin Univ.)
Coherent phonon dynamics in plasmonic systems
- 14:55-15:15 Haifeng Yuan (KU Leuven)
Integrated super-resolution optical and scanning electron microscopy: Towards investigating local interactions of single molecules and plasmonic nanostructures
- 15:15-15:35 Shoji Ito (Osaka Univ.)
Single molecules as nanoprobe for evaluation of microscopic inhomogeneity in polymeric materials
- 15:35-16:50 Poster
- 16:50-17:20 Tsukasa Torimoto (Nagoya Univ.)
Plasmon-enhanced photocatalytic activities of ZnS-AgInS₂ solid solution nanoparticles
- 17:20-17:45 Hiroshi Uji-I (KU Leuven)
Plasmonic nanoscopy
- 17:55-18:10 Kohei Imura (Waseda Univ.)
Spatio-temporal imaging of plasmonic optical fields by near-field optical microscopy
- 18:10-18:40 Keiji Sasaki (Hokkaido Univ.)
Photon nano-shaping with plasmonic angular-momentum control

18:40-18:50 Closing Remarks Johan Hofkens

19:00-21:00 Banquet

Poster Presentation

- P1 Elke Debroye (KU Leuven)
Microscopic investigation of photocatalytic metal oxides at the nanoscale
- P2 Bart Kenens (KU Leuven)
Light controlled synthesis of plasmonic nano-antennas for photovoltaic devices
- P3 Kyosuke Sakai, Takeaki Yamamoto, Kensuke Nomura, Keiji Sasaki (Hokkaido Univ.)
Twisted Light Shine Dark Modes
- P4 Shutaro Ishida, Keiji Sasaki (Hokkaido Univ.)
Fabrication of graphene nano-structure by Electron beam lithography and analysis of their optical properties
- P5 Ryo Niyuki, Hideki Fujiwara, Keiji Sasaki (Hokkaido Univ.)
Development of unique random lasers
- P6 Quan Sun¹, Han Yu¹, Kosei Ueno¹, Atsushi Kubo², Yasutaka Matsuo¹, Hiroaki Misawa¹ (¹Hokkaido Univ., ²Tsukuba Univ.)
Watching the near field of localized surface plasmon resonances and their dynamics by photoemission electron microscopy
- P7 Xu Shi, Kosei Ueno, Tomoya Oshikiri, Hiroaki Misawa (Hokkaido Univ.)
Plasmon-enhanced photocurrent generation on gold nanoparticles loaded titanium dioxide
- P8 Tomoya Oshikiri, Kosei Ueno, Hiroaki Misawa (Hokkaido Univ.)
Plasmon-induced nitrogen fixation under visible light irradiation
- P9 Yukie Yokota¹, Takuo Tanaka^{1,2} (¹RIKEN, ²Hokkaido Univ.)
Dark-Bright Plasmon Coupling between Gold Curvilinear Nanorods and Straight Nanorods

- P10 XiaoWei Li, Kentaro Suzuki, Takahiro Toda, Satoshi Yasuda, Kei Murakoshi (Hokkaido Univ.)
Construction of Plasmonic Photoenergy Conversion System Using PbS Quantized Nanodots Coupled with Au Nanoparticles
- P11 Kentaro Suzuki, Fumika Nagasawa, Satoshi Yasuda, Kei Murakoshi (Hokkaido Univ.)
Monitoring Plasmon-induced Photoelectrochemical Process at Au Nanoparticle / TiO₂ Electrode Interface for Effective Water Oxidation Reaction
- P12 Takahiro Yoshii, Mai Takase, Satoshi Yasuda, Kei Murakoshi (Hokkaido Univ.)
Photo-Oxidation Reactivity of Individual Single-walled Carbon Nanotube in Highly Localized Electromagnetic Field