

Newsletter, March 2012

Management Committee and Working groups meetings of COST Plasmonics will be co-located with E-MRS Spring 2012 meeting, May 15, Strasbourg, France
Symposium O: Applied Nanoplasmonics: Nanoplasmonic Functional Materials and Devices
http://www.emrs-strasbourg.com/index.php?option=com_content&task=view&Itemid=132&id=480
If you would like to attend - please, send a note to alex.d@chalmers.se

During the meeting there will be given an outlook to FP7 MNP: FP7 NMP Call 2013 and the next framework program, by Dr. Marion Tobler - <http://www.euresearch.ch/>

Core-group meeting of COST Plasmonics will be co-located with SPIE Photonics Europe, 16 - 19 April 2012, Square Brussels Meeting Centre, Brussels, Belgium
<http://spie.org/app/program/index.cfm?fuseaction=conferencedetail&conference=8424>
April 18th, late afternoon

New partner COST Action: Nanoscale insights into Ion Beam Cancer Therapy, Nano-IBCT. The Action focuses on biomedical applications of nanoparticles and study plasmon excitations in atomic clusters and nanoparticles, among other subjects. We are welcoming exploratory STSMs between the partners of both networks.
<http://fias.uni-frankfurt.de/nano-ibct/>

STSM: Short term Scientific Missions - if you plan a short (up to 6 months) visit to the partners lab - this is the instrument. Documents to be submitted to STSMs Coordinator Dorota Pawlak: Dorota.Pawlak@itme.edu.pl:
- CV of the applicant
- Acceptance letter of the host
- Work plan
- On-line application (for the form - please, contact Dorota)

COST Plasmonics sponsors the joint publications of the partners as 'Open Access' with various publishers (NPG, ACS, Wiley etc.). Please, send you enquiries to alex.d@chalmers.se

Every partner is welcome to submit the entries to Papers, Jobs and Events sections.

Papers

Material-Selective Surface Chemistry for Nanoplasmonic Sensors: Optimizing Sensitivity and Controlling Binding to Local Hot Spots
L. Feuz, M. P. Jonsson, and F. Höök
Nano Lett. 12, 873 (2012)
<http://pubs.acs.org/doi/abs/10.1021/nl203917e>

Nanoantennas for visible and infrared radiation
P. Biagioni, J.-S. Huang, & B. Hecht
Rep. Prog. Phys. 75, 024402 (2012)
<http://iopscience.iop.org/0034-4885/75/2/024402>

Revealing plasmonic gap modes in particle-on-film systems using dark-field spectroscopy

D. Y. Lei, A. I. Fernández-Domínguez, Y. Sonnefraud, K. Appavoo, R. F. Haglund, J. B. Pendry and S. A. Maier
ACS Nano 6, 1380 (2012)
<http://pubs.acs.org/doi/abs/10.1021%2Fnn204190e>

Role of defects in the phase transition of vanadium dioxide nanoparticles probed by plasmon resonance spectroscopy
K. Appavoo, D. Y. Lei, Y. Sonnefraud, B. Wang, S. Pantelides, S. A. Maier, & R. F. Haglund
Nano Lett. 12, 780 (2012)
<http://pubs.acs.org/doi/abs/10.1021/nl203782y>

Greatly enhanced continuous-wave terahertz emission by nano-electrodes in a photoconductive photomixer
H. Tanoto, T. H. Teng, Q. Y. Wu, M. Sun, Z. N. Chen, S. A. Maier, B. Wang, C. C. Chum, G. Y. Si, A. J. Danner, & S. J. Chua
Nature Photon. 6, 121 (2012)
<http://www.nature.com/nphoton/journal/v6/n2/full/nphoton.2011.322.html>

Single Lateral Mode Mid-Infrared Laser Diode using Sub-Wavelength Modulation of the Facet Reflectivity
G. R. Nash, J. L. Stokes, J. R. Pugh, and S. J. B. Przeslak, P. J. Heard, J. G. Rarity and M. J. Cryan
Appl. Phys. Lett. 100, 011103 (2012)
http://apl.aip.org/resource/1/applab/v100/i1/p011103_s1

Optical Control of Plasmonic Bloch Modes on Periodic Nanostructures
B. Gjonaj, J. Aulbach, P. M. Johnson, A. P. Mosk, L. Kuipers, and A. Lagendijk
Nano Lett. 12, 546 (2012)
<http://pubs.acs.org/doi/abs/10.1021/nl204071e>

Metamaterials with Tailored Nonlinear Optical Response
H. Husu, R. Siiikanen, J. Mäkitalo, J. Lehtolahti, J. Laukkanen, M. Kuittinen, and M. Kauranen
Nano Lett. 12, 673 (2012)
<http://pubs.acs.org/doi/pdf/10.1021/nl203524k>

Three-Dimensional Metallic Photonic Crystals with Optical Bandgaps
N. Vasilantonakis, K. Terzaki, I. Sakellari, V. Purlys, D. Gray, C. M. Soukoulis, M. Vamvakaki, M. Kafesaki and M. Farsari
Adv. Mater. 24, 1101 (2012)
<http://onlinelibrary.wiley.com/doi/10.1002/adma.201104778/abstract>

Long vs. short-range orders in random subwavelength hole arrays
F. Przybilla, C. Genet, and T. W. Ebbesen
Opt. Exp. 20, 4697 (2012)
<http://www.opticsinfobase.org/oe/abstract.cfm?uri=oe-20-4-4697>

Static and Dynamic Plasmon-Enhanced Light Scattering from Dispersions of Polymer-Grafted Silver Nanoprisms in the Bulk and Near Solid Surfaces
E. Antoniou, P. Voudouris, A. Larsen, B. Loppinet, D. Vlassopoulos, I. Pastoriza-Santos, and L. M. Liz-Marzán
J. Phys. Chem. C 116, 3888 (2012)
<http://pubs.acs.org/doi/abs/10.1021/jp2076534>

Jobs

Post-doctoral position(s) in plasmonics, biosensing or nanophotonics (up to 4 years) at Nanophotonics and Metrology Lab (NAM), EPFL, Lausanne, Switzerland
Special interested in the following expertise: Biochemistry, with a strong background in surface functionalization and/or redox molecules; Nonlinear plasmonics.

Contact: Olivier Martin, olivier.martin@epfl.ch

<http://nam.epfl.ch/openpos.html>

PhD on modelling plasmonic nanostructures in complex surroundings (3 years) at Nanophotonics and Metrology Lab (NAM), EPFL, Lausanne, Switzerland

Requirements: completed studies in physics, mathematics, or electrical engineering. Good analytical skills and taste for modelling and computer programming. Ability to interact with experimentalists.

Contact: Olivier Martin, olivier.martin@epfl.ch

<http://nam.epfl.ch/openpos.html>

PhD on Fano resonances in plasmonic systems (3 years) at Nanophotonics and Metrology Lab (NAM), EPFL, Lausanne, Switzerland (a collaboration with a large industrial company, investigating Fano resonances in plasmonic nanostructures and their application to biosensing).

Requirements: completed studies in physics, mathematics, or electrical engineering. Very good analytical skills and theoretical creativity. Taste for modelling and computer programming, as well as interest for transposing original ideas into practical realization.

Contact: Olivier Martin, olivier.martin@epfl.ch

<http://nam.epfl.ch/openpos.html>

Two PhD positions in nanoplasmionics or metamaterials research at Imperial College London, UK.

For more info, please contact Stefan A. Maier, s.maier@imperial.ac.uk

Events

META'12, 3rd international conference on metamaterials, photonics crystals and plasmonics

<http://metaconferences.org/ocs/index.php/META/META12>

OSA Integrated Photonics Research, Silicone and Nanophotonics conference

June 17-21 2012, Cheyenne Mountain Resort, Colorado Springs, USA

Abstracts submission: 14 February, 2012

http://www.osa.org/meetings/topical_meetings/ipr/default.aspx

EUPROMETA Doctoral School on Metamaterials: Introduction to metamaterials

May 7-11 2012, Louvain-la-Neuve, Belgium

<http://school.metamorphose-vi.org/>

2nd International Conference on Frontiers of Plasmonics (FOP)

April 8-12, 2012, Sichuan University, Chengdu, China

Abstracts submission: February 29, 2012

<http://nano.iphy.ac.cn/FOP2/FOP2.html>

PIERS 2012

August 17-23, 2012, Moscow, Russia

Abstract submission: March 20, 2012

<http://piers.org/piers2012Moscow/>

Metamaterials' 2012: The 6th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics

September 17-22, 2012, St. Petersburg, Russia

Abstract submission: March 23, 2012

<http://congress2012.metamorphose-vi.org/>

International Brokerage Event with F2F meetings: a platform to initiate international R&D projects in nanotechnologies, materials and industrial processes and to boost the innovation. The event is supported by the European Commission.

May 24, Lausanne, Switzerland

Registration deadline: April 25, 2012

<http://www.b2match.eu/meetatnano/>

NFO12: Near-field Optics, Nanophotonics and Related Techniques 2012

September 3-6, 2012, Donostia – San Sebastian, Basque Country, Spain

Abstracts submission: April 26, 2012.

<http://www.nfo12.org>

2012 Gordon Research Conference: Plasmonics

June 10-15, 2012, Colby College, Waterville, ME, USA

Application: May 13, 2012

<http://www.grc.org/programs.aspx?year=2012&program=plasmonics>

International school of quantum electronics, Advances on nanophotonics IV

July 17-29 2012, Erice – Sicily, Italy

<http://w3.uniroma1.it/nanophotonic/>

Registration deadline: June 15, 2012

[Partner network event, COST Action Nano-IBCT]

Symposium on atomic cluster collisions

July 18-23, 2013, Wuhan-Chongqing, China

<http://fias.uni-frankfurt.de/isacc/>

Previous meeting of the series: <http://fias.uni-frankfurt.de/isacc2011/index.php/>