

Newsletter, June 2012

Working groups meeting of COST Plasmonics will be co-located with Nanophotonics and Metamaterials conference at the EOS Annual meeting in Aberdeen, UK
September 25-28, 2012

http://www.myeos.org/events/eosam2012_tom3

Regular participation reimbursement scheme applies.

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 alexd@chalmers.se

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

Papers

C. Hägglund and S. P. Apell,
Plasmonic near-field absorbers for ultrathin solar cells.

J. Phys. Chem. Lett. 3, 1275 (2012)

<http://dx.doi.org/10.1021/jz300290d>

Nanoparticle-assisted stimulated-emission-depletion nanoscopy

Y. Sivan, Y. Sonnefraud, S. Kéna-Cohen, J. B. Pendry, & S. A. & Maier

ACS Nano, Article ASAP (2012)

<http://pubs.acs.org/doi/abs/10.1021/nn301082g>

Transformation optics description of touching metal nanospheres

A. I. Fernández-Domínguez, S. A. Maier, & J. B. Pendry

Phys. Rev. B 85, 165148 (2012)

<http://prb.aps.org/abstract/PRB/v85/i16/e165148>

Surface Plasmon Polariton Amplification upon Electrical Injection in Highly Integrated Plasmonic Circuits

D. Yu. Fedyanin, A. V. Krasavin, A. V. Arsenin, and A. V. Zayats

Nano Lett. 12, 2459 (2012)

<http://pubs.acs.org/doi/abs/10.1021/nl300540x>

Directional Scattering and Hydrogen Sensing by Bimetallic Pd–Au Nanoantennas

T. Shegai, P. Johansson, C. Langhammer, and M. Käll

Nano Lett. 12, 2464 (2012)

<http://pubs.acs.org/doi/abs/10.1021/nl300558h>

Three-Dimensional Chiral Plasmonic Oligomers

M. Hentschel, M. Schäferling, T. Weiss, N. Liu, and H. Giessen

Nano Lett. 12, 2542 (2012)

<http://pubs.acs.org/doi/abs/10.1021/nl300769x>

Molecular Thinking for Nanoplasmonic Design

A. Guerrero-Martínez, M. Grzelczak, and L. M. Liz-Marzán
ACS Nano 6, 3655 (2012)
<http://pubs.acs.org/doi/abs/10.1021/nn301390s>

Thermo-plasmonics: using metallic nanostructures as nano-sources of heat
G. Baffou, R. Quidant
Laser Photonics Rev., Early View, DOI: 10.1002/lpor.201200003 (2012)
<http://onlinelibrary.wiley.com/doi/10.1002/lpor.201200003/abstract>

Mapping intracellular temperature using green fluorescent protein
J. S. Donner, S. A. Thompson, M. P. Kreuzer, G. Baffou, R. Quidant
Nano Lett. 12, 2107 (2012)
<http://pubs.acs.org/doi/abs/10.1021/nl300389y>

Enhanced optical trapping and arrangement of nano-objects in a plasmonic nanocavity
C. Chen, M. L. Juan, Y. Li, G. Maes, G. Borghs, P. van Dorpe, R. Quidant
Nano Lett. 12, 125 (2012)
<http://pubs.acs.org/doi/full/10.1021/nl2031458>

Silencing and enhancement of second-harmonic generation in optical gap antennas
J. Berthelot, G. Bachelier, M. Song, P. Rai, G. Colas des Francs, A. Dereux, and A. Bouhelier
Opt. Exp. 20, 10498 (2012)
<http://www.opticsinfobase.org/oe/abstract.cfm?URI=OPEX-20-10-10498>

Resonance quality, radiative/ohmic losses and modal volume of Mie plasmons
S. Derom, R. Vincent, A. Bouhelier and G. Colas des Francs
EPL 98, 47008 (2012)
<http://doi:10.1209/0295-5075/98/47008>

Surface plasmon polariton-controlled tunable quantum-dot emission
R.J. Moerland, H.T. Rekola, G. Sharma, A.-P. Eskelinen, A.I. Väkeväinen, and P. Törmä
Appl. Phys. Lett. 100, 221111 (2012)
<http://dx.doi.org/10.1063/1.4724327>

Jobs

Postdoc position in ultrafast optics and magneto(spin)plasmonics (plasmonics + magnetism)
at Chalmers, Göteborg, Sweden

This postdoc position is within our new line of research – combination of nanoplasmonic and ferromagnetic materials = magnetoplasmonics that also spills into spintronics research. We primarily use spectroscopic magneto-optical Kerr effect (MOKE) to characterize the interaction of plasmons and magnetization in nanoferrromagnets. With this project we will expand our MOKE capabilities to the resolution in low fs- time domain.

Requirements: Previous experience with ultrafast optical studies is a prerequisite. Strong interest / previous experience in nanooptics / nanoplasmonics as well as in time-resolved MOKE is a merit.

Position starts ASAP.

Contact: Alexandre 'Sascha' Dmitriev, alexnd@chalmers.se

<http://www.chalmers.se/ap/EN/research/bionanophotonics/research/functional>

Postdoc positions at the University of Eastern Finland, Joensuu, Finland

Contact: Pasi Vahimaa, Pasi.Vahimaa@joensuu.fi

<http://www.uef.fi/fysmat>.

Events

Quantum Nano-Optics Workshop (satellite of NFO conference) at ICFO, Barcelona, Spain
September 10-11, 2012

<http://quantumnano-optics.icfo.eu/>

33rd Progress in Electromagnetics Research Symposium (PIERS) in Taipei, Taiwan
March 25-28, 2013

<http://piers.org/piers/submit/survey.php>

Optics Within Life Sciences (OWLS), Genoa, Italy

July 4-6, 2012

<http://www.owls2012.org/>

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

SPIE Photonics West, San Francisco, CA, USA

February 2-7, 2013

Abstracts submission: July 2012

http://spie.org/photonics-west.xml?WT.mc_id=RPW13CE

[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/>