

Newsletter, August 2011

Working groups 2, 3 will have their meeting in September, co-located with Nanoplasmonic Sensors and Spectroscopy, Sept. 18-22 2011 (Chalmers, Gothenburg, <http://www.chalmers.se/en/conference/nss2011/Pages/COST-Plasmonics.aspx>).

Date: September 22 (Thursday), time: 14-16, place - Chalmers campus, nearby the conference site.

Joint call for STSM (Short Term Scientific Missions) together with our partner network - COST Action MP0702: Towards Functional Sub-Wavelength Photonic Structures (<http://cost-mp0702.nit.eu/cost-mp0702>). We would like to specifically support the visits between partners of both networks - as usual with STSM, if you plan a short (up to 3 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)

Partners of MP0702, working with plasmonics: <http://cost-mp0702.nit.eu/cost-mp0702/working-group-1>.

Papers

Virtual Issue: Plasmon Resonances – A Physical Chemistry Perspective

J. Phys. Chem. C 115, 15121 (2011)

<http://pubs.acs.org/doi/full/10.1021/jp206376f>

Layered metal-dielectric waveguide: subwavelength guidance, leveraged modulation sensitivity in mode index, and reversed mode ordering

M. Yan, L. Thylen, and M. Qiu

Opt. Exp. 19, 3818 (2011)

<http://www.opticsinfobase.org/abstract.cfm?URI=oe-19-4-3818>

Theoretical study of nanophotonic directional couplers comprising near-field-coupled metal nanoparticles

P. Holmström, J. Yuan, M. Qiu, L. Thylén, and A. M. Bratkovsky

Opt. Express 19, 7885 (2011)

<http://www.opticsinfobase.org/oe/abstract.cfm?URI=oe-19-8-7885>

Sub- μm^2 power splitters by using silicon hybrid plasmonic waveguides

J. Wang, X. Guan, Y. He, Y. Shi, Z. Wang, S. He, P. Holmström, L. Wosinski, L. Thylen, and D. Dai

Opt. Express 19, 838 (2011)

<http://www.opticsinfobase.org/oe/abstract.cfm?URI=oe-19-2-838>

Gain enhancement in a hybrid plasmonic nano-waveguide with a low-index or high-index gain medium

D. Dai, Y. Shi, S. He, L. Wosinski, and L. Thylen

Opt. Express 19, 12925 (2011)

<http://www.opticsinfobase.org/oe/abstract.cfm?URI=oe-19-14-12925>

Cascaded logic gates in nanophotonic plasmon networks

H. Wei, Z. Wang, X. Tian, M. Käll & H. Xu

Nat. Comm. 2:387 (2011), doi:10.1038/ncomms1388

http://www.nature.com/ncomms/journal/v2/n7/abs/ncomms1388.html?WT.ec_id=NCOMMS-20110712

Fano Resonances in Nanoscale Plasmonic Systems: A Parameter-Free Modeling Approach
V. Giannini, Y. Francescato, H. Amrania, C. C. Phillips, and S. A. Maier

Nano Lett. 11, 2835 (2011)

<http://pubs.acs.org/doi/abs/10.1021/nl201207n>

Near-field Dynamics of Optical Yagi-Uda Nanoantennas

J. Dorfmueller, D. Dregely, M. Eßlinger, W. Khunsin, R. Vogelgesang, K. Kern, and H. Giessen

Nano Lett. 11, 2819 (2011)

<http://pubs.acs.org/doi/abs/10.1021/nl201184n>

Surface plasmon effects on carbon nanotube field effect transistors

T. Isoniemi, A. Johansson, T.K. Hakala, M. Rinkiö, P. Törmä, J.J. Toppari, and H. Kunttu

Appl. Phys. Lett. 99, 031105 (2011)

http://apl.aip.org/resource/1/applab/v99/i3/p031105_s1?isAuthorized=yes

Vacuum Rabi splitting for surface plasmon polaritons and Rhodamine 6G molecules

R.J. Moerland, T.K. Hakala, A.I. Väkeväinen, A.-P. Eskelinen, G. Sharma, J.J. Toppari, A.

Kuzyk, M. Pettersson, H. Kunttu, and P. Törmä

Proc. SPIE 8070, 80700D (2011)

http://spiedigitallibrary.org/proceedings/resource/2/psidg/8070/1/80700D_1

Dark and bright localized surface plasmons in nanocrosses

N. Verellen, P. Van Dorpe, D. Vercruyssen, G. A. E. Vandenbosch, and V. V. Moshchalkov

Opt. Exp. 19, 11034 (2011)

<http://www.opticsinfobase.org/oe/abstract.cfm?URI=OPEX-19-12-11034>

Plasmon-Assisted Optofluidics

J. S. Donner, G. Baffou, D. McCloskey, and R. Quidant

ACS Nano 5, 5457 (2011)

<http://pubs.acs.org/doi/abs/10.1021/nn200590u>

Imaging Symmetry-Selected Corner Plasmon Modes in Penta-Twinned Crystalline Ag Nanowires

M. Song, A. Bouhelier, P. Bramant, J. Sharma, E. Dujardin, D. Zhang, and G. Colas-des-Francis

ACS Nano 5, 5874 (2011)

<http://pubs.acs.org/doi/abs/10.1021/nn201648d>

Jobs

Postdoc + PhD positions – STM / nanoplasmonics at Chalmers, Göteborg, Sweden

Contact: A. Dmitriev, alex.d@chalmers.se

Applications deadline: Sept. 1 2011.

More info: <http://www.chalmers.se/ap/EN/news/vacancies/positions/postdoc-position-in-stm>

<http://www.chalmers.se/ap/EN/news/vacancies/positions/phd-position-in-stm>

Postdoctoral position - Theoretical study of optical and magneto-optical properties of magnetoplasmonic systems (one year), The Laboratory on Molecular Magnetism & CNR-ISTM, Florence, Italy

The project is part of the mission of LAMM in Cariplo Foundation project (<http://chifis.unipv.it/magnetoplasmonica/Home.html>) that involves five Italian research laboratories.

Contact: Dr. Claudio Sangregorio, Claudio.sangregorio@unifi.it and Dr. C. de Julián Fernández, cesar.dejulian@unifi.it.

Deadline: position starts ASAP.

Events

SPIE Optics + Photonics

San Diego Convention Center, San Diego, California, USA

21 - 25 August 2011

Plenaries: <http://spie.org/x34417.xml>

Registration: http://spie.org/optics-photonics.xml?WT.mc_id=ROP112PE