

Newsletter, May 2011

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COST Plasmonics invites applications to host the hands-on training school(s): it is our commitment to spread the experimental and theoretical (methodological) hands-on knowledge in the plasmonics community, thus we aim at supporting focused events where participants learn in practice a particular (new) technique or real practical aspects of the established one. Example: Hole-mask Colloidal Lithography (HCL) training school (<http://www.chalmers.se/ap/EN/research/bionanophotonics/adverts/hcl>). If you would like to organize/host such event to share your knowledge with the community - please, contact me directly at [alex.d@chalmers.se](mailto:alex.d@chalmers.se)

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STSMs (Short Term Scientific Missions) are sponsored by the network: 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](mailto:Dorota.Pawlak@itme.edu.pl)):

- CV of the applicant
- Acceptance letter of the host
- Detailed work plan
- On-line application (for the form - please, contact Dorota)

Planning: The documents should arrive to the network office at least one month before the trip

Papers

Plasmon-enhanced colorimetric ELISA with single molecule sensitivity

S. Chen, M. Svedendahl, R. P. Van Duyne, and M. Käll

Nano Lett., Article ASAP (2011)

<http://pubs.acs.org/doi/abs/10.1021/nl2006092>

Plasmonic hybridization between nanowires and a metallic surface: a transformation optics approach

A. Aubry, D. Y. Lei, S. A. Maier, & J. B. Pendry

ACS Nano 5, 597 (2011)

<http://pubs.acs.org/doi/abs/10.1021/nn200438e>

High-resolution mapping of electron-beam-excited plasmon modes in lithographically-defined gold nanostructures

A. L. Koh, A. I. Fernández-Domínguez, D. W. McComb, S. A. Maier, & J. K. W. Yang

Nano Lett. 11, 1323 (2011)

<http://pubs.acs.org/doi/abs/10.1021/nl104410t>

3D optical Yagi-Uda nanoantenna array

D. Dregely, R. Taubert, J. Dorfmueller, R. Vogelgesang, K. Kern & H. Giessen

Nat. Commun. 2:267 doi: 10.1038/ncomms1268 (2011)

<http://www.nature.com/ncomms/journal/v2/n4/pdf/ncomms1268.pdf>

Improved biosensing capability with novel suspended nanodisks

M. A. Otte, M.-C. Estevez, L. G. Carrascosa, A. B. Gonzalez-Guerrero, L. M. Lechuga, and B. Sepulveda

J. Phys. Chem. C 115, 5344 (2011)

<http://pubs.acs.org/doi/abs/10.1021/jp110363a>

Design and optical properties of active polymer-coated plasmonic nanostructures

H. Gehan, C. Mangeney, J. Aubard, G. Levi, A. Hohenau, J. R. Krenn, E. Lacaze, and N. Felidj

J. Phys. Chem. Lett. 2, 926 (2011)

<http://pubs.acs.org/doi/abs/10.1021/jz200272r>

Gold, platinum, and aluminum nanodisk plasmons: Material independence, subradiance, and damping mechanisms

I. Zoric, M. Zäch, B. Kasemo, and C. Langhammer

ACS Nano, 5, 2535 (2011)

<http://pubs.acs.org/doi/abs/10.1021/nn102166t>

Local refractive index sensitivity of plasmonic nanoparticles

M. Piliarik, P. Kvasnicka, G. Galler, J. R. Krenn, J. Homola

Opt. Exp. 19, 9213 (2011)

<http://www.opticsinfobase.org/abstract.cfm?URI=oe-19-10-9213>

## Jobs

Post-doctoral research associate (24 months) in electrochemical plasmonics at the Department of Physics, School of Natural and Mathematical Sciences, King's College London, UK. The work focuses on electrochemical fabrication of plasmonic and semiconductor nanostructures.

Details: [http://www.kcl.ac.uk/depsta/pertra/vacancy/external/pers\\_detail.php?jobindex=10044](http://www.kcl.ac.uk/depsta/pertra/vacancy/external/pers_detail.php?jobindex=10044)

Contact: Prof. Anatoly Zayats, [a.zayats@kcl.ac.uk](mailto:a.zayats@kcl.ac.uk)

## Events

[organized by COST Plasmonics partner]

Nanoplasmonic Sensors and Spectroscopy, September 18-22, 2011 at Chalmers, Göteborg, Sweden.

Sunday, Sept. 18 - tutorials sessions.

Abstracts submission: May 15, 2011 (orals); June 30, 2011 (posters)

[www.chalmers.se/nss2011](http://www.chalmers.se/nss2011)

7th International Conference on Photonics, Devices and Systems - Photonics Prague 2011

August 24-26 2011, ARTEMIS Olympik Hotel – Congress Center, Prague, Czech Republic

Abstracts submission: June 1, 2011

<http://prague2011.photon-czsk.org/>

ICTON 2011: The 13th International Conference on Transparent Optical Networks

\*COST Actions MP0702 (Sub-Wavelength Photonics) and MP0805 (Gain Materials and Devices Based on III-V-N Gain Devices) are having their 2011 annual events co-located with this event\*

June 26 - 30, 2011, Royal Institute of Technology (KTH), Stockholm, Sweden

Contributions submission deadline: March 31, 2011

<http://www.itl.waw.pl/icton2011>

SPIE Photonics West

The Moscone Center

, San Francisco, California, USA

January 21-26, 2012

Deadline for submissions: July 11, 2011

[http://spie.org/photonics-west.xml?WT.mc\\_id=RPW12ACE](http://spie.org/photonics-west.xml?WT.mc_id=RPW12ACE)