

Newsletter, September 2010

## Papers

Transition from Isolated to Collective Modes in Plasmonic Oligomers

M. Hentschel, M. Saliba, R. Vogelgesang, H. Giessen, A. P. Alivisatos and N. Liu  
Nano Lett. 10, 2721 (2010)

<http://pubs.acs.org/doi/pdf/10.1021/nl101938p>

Plasmonic Nanowire Antennas: Experiment, Simulation and Theory

J. Dorfmueller, R. Vogelgesang, W. Khunsin, C. Rockstuhl, C. Etrich and K. Kern  
Nano Lett., Article ASAP

<http://pubs.acs.org/doi/abs/10.1021/nl101921y>

Unidirectional Emission of a Quantum Dot Coupled to a Nanoantenna

A. G. Curto, G. Volpe, T. H. Taminiau, M. P. Kreuzer, R. Quidant, N. F. van Hulst  
Science 329, 930 (2010)

<http://www.sciencemag.org/cgi/content/full/329/5994/930>

Localized Surface Plasmons Shed Light on Nanoscale Metal Hydrides

I. Zoric, E. M. Larsson, B. Kasemo and C. Langhammer

Adv. Mater., Early view, DOI: 10.1002/adma.201000973

<http://onlinelibrary.wiley.com/doi/10.1002/adma.201000973/abstract>

Transmitting Hertzian Optical Nanoantenna with Free-Electron Feed

I. Denisyuk, G. Adamo, K. F. MacDonald, J. Edgar, M. D. Arnold, V. Myroshnychenko, M. J. Ford, F. Javier Garca de Abajo and N. I. Zheludev

Nano Lett., Article ASAP

<http://pubs.acs.org/doi/abs/10.1021/nl1002813>

Indirect Nanoplasmonic Sensing: Ultrasensitive Experimental Platform for Nanomaterials  
Science and Optical Nanocalorimetry

C. Langhammer, E. M. Larsson, B. Kasemo and I. Zoric

Nano Lett., Article ASAP

<http://pubs.acs.org/doi/abs/10.1021/nl101727b>

Phase-Resolved Mapping of the Near-Field Vector and Polarization State in Nanoscale  
Antenna Gaps

M. Schnell, A. Garcia-Etxarri, J. Alkorta, J. Aizpurua and R. Hillenbrand

Nano Lett., Article ASAP

<http://pubs.acs.org/doi/abs/10.1021/nl101693a>

Colloidal Quantum Dots as Probes of Excitation Field Enhancement in Photonic Antennas

H. Aouani, S. Itzhakov, D. Gachet, E. Devaux, T. W. Ebbesen, H. Rigneault, D. Oron and J. Wenger

ACS Nano 4, 4571 (2010)

<http://pubs.acs.org/doi/abs/10.1021/nn1009209>

Quantitative Analysis of Localized Surface Plasmons Based on Molecular Probing

C. Deeb, R. Bachelot, J. Plain, A.-L. Baudrion, S. Jradi, A. Bouhelier, O. Soppera, P. K. Jain,  
L. Huang, C. Ecoffet, L. Balan and P. Royer

ACS Nano 4, 4579 (2010)

<http://pubs.acs.org/doi/abs/10.1021/nn101017b>

Plasmonic Light-Harvesting Devices over the Whole Visible Spectrum

A. Aubry, D. Y. Lei, A. I. Fernandez-Domínguez, Y. Sonnefraud, S. A. Maier and J. B. Pendry  
Nano Lett., 10, 2574 (2010)

<http://pubs.acs.org/doi/abs/10.1021/nl101235d>

The Fano resonance in plasmonic nanostructures and metamaterials

B. Luk'yanchuk, N. I. Zheludev, S. A. Maier, N. J. Halas, P. Nordlander, H. Giessen and C. T. Chong

Nature Mater. 9, 707 (2010)

<http://www.nature.com/nmat/journal/v9/n9/abs/nmat2810.html>

Hidden progress: broadband plasmonic invisibility

J. Renger, M. Kadic, G. Dupont, S. S. Ćimović, S. Guenneau, R. Quidant, S. Enoch

Opt. Express 18, 15757 (2010)

<http://www.opticsinfobase.org/abstract.cfm?uri=oe-18-15-15757>

Design and properties of dielectric surface plasmon Bragg mirrors

S. Randhawa, M. Ujué González, J. Renger, S. Enoch, R. Quidant

Opt. Express 18, 14496 (2010)

<http://www.opticsinfobase.org/oe/abstract.cfm?uri=oe-18-14-14496>

Composite metal/quantum-dot nanoparticle-array waveguides with compensated loss

P. Holmström, L. Thylen, and A. Bratkovsky

Appl. Phys. Lett. 97, 073110 (2010)

[http://apl.aip.org/resource/1/applab/v97/i7/p073110\\_s1](http://apl.aip.org/resource/1/applab/v97/i7/p073110_s1)

## Funding

[partner network]

ESF Network PLASMON-BIONANOSENSE: Applications are open for short and long term visits and conferences/workshops, [www.esf.org/plasmon](http://www.esf.org/plasmon)

## Jobs

Photonic Nanomaterials (PhoNa) initiative offers excellent career opportunities for young scientists. PhoNa's career programs are run together with the Abbe School of Photonics with further information being attached or available online at [www.asp.uni-jena.de/careers](http://www.asp.uni-jena.de/careers).

Science.eu.com Call 2010: Ikerbasque has opened its Science.EU.com 2010 call for senior researchers. We are offering permanent contract positions for 20 experienced researchers at any Basque Research Institution. The applicants must have their PhD completed before January 2006. Only researchers with a solid research track, senior level and international research experience will be considered. Researchers with a permanent position in the Basque Country are not eligible under this call.

Details: [http://www.ikerbasque.net/call\\_2010\\_for\\_experienced\\_researchers.html](http://www.ikerbasque.net/call_2010_for_experienced_researchers.html)

Deadline: September 30, 2010

## Events

[organized by COST Plasmonics partner]

Conference symposium: "Biosensing with Nanoplasmonics" (organized by S. Maier, ESF PLASMON-BIONANOSENSE, [www.esf.org/plasmon](http://www.esf.org/plasmon)) at PIERS 2011 Marrakesh

Submission deadline: Sept 20<sup>th</sup> 2010

[http://piers.mit.edu/piers2011marrakesh/submit/submit\\_new.php](http://piers.mit.edu/piers2011marrakesh/submit/submit_new.php)

MRS Spring Meeting, April 25 - 29, 2011, Moscone West and San Francisco Marriott, San Francisco, California

Abstracts submission deadline: November 2<sup>nd</sup>, 2010.

[http://www.mrs.org/s\\_mrs/sec.asp?CID=21379&DID=246341&SID=1](http://www.mrs.org/s_mrs/sec.asp?CID=21379&DID=246341&SID=1)

SPIE/OSA European Conferences on Biomedical Optics  
22 - 26 May 2011, ICM - International Conference Centre Munich (Munich, Germany)  
Submission deadline: December 17<sup>th</sup> 2010  
[http://spie.org/biomedical-optics-europe.xml?WT.mc\\_id=REBO11ACE](http://spie.org/biomedical-optics-europe.xml?WT.mc_id=REBO11ACE)

[organized by COST Plasmonics partner]  
NANOMETA 2011, The 3rd International Topical Meeting on Nanophotonics and  
Metamaterials, 3 - 6 January 2011 Seefeld ski resort, Tirol, Austria  
Call for papers opens August 1, 2010; Deadline for submission: October 1, 2010  
<http://www.nanometa.org>