

Newsletter Oct 2009 / Friday, Oct 16

Papers

- Controlling the Optical Near Field of Nanoantennas with Spatial Phase-Shaped Beams,
Giorgio Volpe, Sudhir Cherukulappurath, Roser Juanola Parramon, Gabriel Molina-Terriza and Romain Quidant, Nanoletters DOI: 10.1021/nl901821s
<http://pubs.acs.org/doi/abs/10.1021/nl901821s>

- Nano-optical Trapping of Rayleigh Particles and Escherichia coli Bacteria with Resonant Optical Antennas, M. Righini, P. Ghenuche, S. Cherukulappurath, V. Myroshnychenko, F. J. Garca de Abajo and R. Quidant, Nanoletters DOI: 10.1021/nl803677x
<http://pubs.acs.org/doi/abs/10.1021/nl803677x>

- Self-induced back-action optical trapping of dielectric nanoparticles, Mathieu L. Juan, Reuven Gordon, Yuanjie Pang, Fatima Eftekhari and Romain Quidant, Nature Physics, DOI: 10.1038/NPHYS1422
<http://www.nature.com/nphys/journal/vaop/ncurrent/abs/nphys1422.html>

Jobs

1. The Paul Scherrer Institute

Postdoctoral Fellow

Nanooptics (Development of new concepts and designs of nanostructures for nanooptics, plasmonics and metamaterials; Fabrication using EUV interference lithography and electron-beam lithography; Evaluation of the performance of the devices using spectroscopic methods in the far-field and near-field; Assist in further development of EUV lithography technique; Close cooperation in related projects with the colleagues in the interdisciplinary research team and with external partners)

Your profile PhD in physics, materials science, chemistry or engineering and have a keen interest in experimental work in nanotechnology and optics. You enjoy working in an interdisciplinary, multinational research environment. Being an enthusiastic researcher and a good team player will help to ensure your success in completing your postdoctoral position in this exciting field of study. Hands-on experience in the following fields will be of great advantage but not necessary: Nanofabrication in cleanroom environment, electron-beam lithography, photolithography, Raman spectroscopy, fluorescence spectroscopy, electromagnetic simulation tools such as FDTD, plasmonics and metamaterials.

For further information please get in touch with: Dr. Yasin Ekinci,
Phone +41 (0)56 310 2824, yasin.ekinci@psi.ch

Please submit your application to: Paul Scherrer Institut, Human Resources, ref. code 6212, Elke Baumann, 5232 Villigen PSI, Switzerland, elke.baumann@psi.ch.

Further job opportunities: www.psi.ch

2. Institute of Electronic Materials Technology

invites for the cooperation within: Programme TEAM funded by Foundation for Polish Science operated within the Innovative Economy Operational Programme 2007-2013

Self-organization approach towards photonics/optoelectronics

Project duration: 1 February 2009 – 31 January 2013

Project leader: Dr. Dorota Anna Pawlak

We offer stipend in the amount of 3000 PLN for:

PhD student (for a period from 1.11.2009 till 31.01.2013)

For more information please see the attached file.

The applications need to be send until 22.10.2009 to agata.hass@itme.edu.pl

Events

10. The **Symposium D: Plasmonic Materials and Metamaterials**,

MRS Spring Meeting 2010, **April 5-9, 2010** Moscone West and San Francisco Marriott

Deadline: Nov. 2 2009;

http://www.mrs.org/s_mrs/sec.asp?CID=19798&DID=244085

11. This is to inform you about the *Final Announcement and Call for Papers* for the **EOS Topical Meeting on “Diffractive Optics 2010”** to be held in Koli, Finland, from 14 – 18 February. The *Final Announcement and Call for Papers* is available for download at www.myeos.org/events/koli. For a direct download, please click here: http://www.myeos.org/download/EOS_DO_2010_finalcall.pdf (pdf file, 280 KB) **The deadline for abstract submission is 19 October 2009.** Meet your peers and colleagues to discuss the latest advances in the field of diffractive optics. Be part of the meeting series, submit your abstract today! The EOS meeting on Diffractive Optics will include focus sessions on Optics in Displays, Illumination, and Vision as well as a seminar *Unified Optical Engineering with VirtualLab*. Topics: - Micro-optics in displays - Optics of modern projectors - Adaptive optics in vision - Modeling of diffractive optics - Fabrication and characterization - System integration - Programmable DOEs - Sub-wavelength optics - Photonic crystals - Novel optical materials including metamaterials - Shaping and homogenization of optical beams - Measurement techniques - Diffractive optics for life sciences & security applications

Best regards,

European Optical Society (EOS) Hollerithallee 8 D-30419 Hannover

Your contact: Judith Herzog (M.A.) Event & Account Manager

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12. SPIE Photonics West, 23 - 28 January 2010
The Moscone Center
San Francisco, California, USA

Post-deadline Submissions:

[Late abstract submissions may be accepted subject to chair approval](#)

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

13. Photon 2010 / QEP-19 conferences are added to the plasmonic events listing:

23-27 Aug. 2010, University of Southampton, UK

<http://www.photon.org.uk/>