

Winners of the CeNS publication award 2006



The CeNS publication award of 10 x 1'000 Euros is granted to outstanding publications which present research work originating from collaborations of CeNS members. The announcement of the laureates took place on September 26th in Venice, Italy, as part of the CeNS workshop program “Emerging Nanosystems – From Quantum Manipulation to Nanobiomachines”.

The ten winning articles are (in random order):

- **“The Transport of Nanosized Gene Carriers Unraveled by Live-Cell Imaging”**
Ralf Bausinger, Katharina von Gersdorff, Kevin Braeckmans, Manfred Ogris, Ernst Wagner, Christoph Bräuchle, Andreas Zumbusch
Angew. Chem. Int. Ed. **45**, 1568 (2006)
- **“Actin-Binding Proteins Sensitive Mediate F-Actin Bundle Stiffness”**
Mireille M. A. E. Claessens, Mark Bathe, Erwin Frey, Andreas R. Bausch
Nature Materials **5**, 748 (2006)
- **“Protein Structure by Mechanical Triangulation”**
Hendrik Dietz, Matthias Rief
Proc. Natl. Acad. Sci. USA **103**, 1244 (2006)
- **“Thermophoretic Depletion Follows Boltzmann Distribution”**
Stefan Duhr, Dieter Braun
Physical Review Letters **96**, 168301 (2006)
- **“Chiral Separation in Microflows”**
Marcin Kostur, Michael Schindler, Peter Talkner, Peter Hänggi
Physical Review Letters **96**, 014502 (2006)
- **“Scaling Exponent and Kuhn Length of Pinned Polymers by Single Molecule Force Spectroscopy”**
Ferdinand Kühner, Matthias Erdmann, Hermann E. Gaub
Physical Review Letters 2006, accepted
- **“Combined Atomic Force Microscopy and Optical Microscopy Measurements as a Method to Investigate Particle Uptake by Cells”**
Almudena Muñoz Javier, Oliver Kreft, Alicia Piera Alberola, Christian Kirchner, Bernd Zebli, Andrei S. Susha, Elias Horn, Susanne Kempter, Andre G. Skirtach, Andrey L. Rogach, Joachim Rädler, Gleb B. Sukhorukov, Martin Benoit, Wolfgang J. Parak
Small **2**, 394 (2006)
- **“Elasticity of Poly(azobenzene-peptides)”**
Gregor Neuert, Thorsten Hugel, Roland R. Netz, Hermann E. Gaub
Macromolecules **39**, 789 (2006)
- **“Estimating the Transfer Function of the Cantilever in Atomic Force Microscopy: A System Identification Approach”**
Martin Stark, Reinhard Guckenberger, Andreas Stemmer, Robert W. Stark
Journal of Applied Physics **98**, 114904 (2005)
- **“Near-Field Microscopy Through a SiC Superlens”**
Thomas Taubner, Dimitriy Korobkin, Yaroslav Urzhumov, Gennady Shvets, Rainer Hillenbrand
Science Brevia **313**, 1595 (2006)