

Entire list of publications of Martin Hof till 2009 (113)

Overview (conference abstracts, editorials, protein data bank, and news items are not listed):

- 91 Articles in impacted Journals (53 first or corresponding author)
- 2 Articles in non-impacted Journals
- 4 Articles in Conference Proceedings listed in Web of Science
- 13 Chapters in Books
- 2 Edited Books
- 1 Patent

- 1) Beranová, Lenka - Humpolíčková, Jana - Hof, Martin
Principles and applications of fluorescence lifetime correlation spectroscopy
Proc. SPIE 7356, Optical Sensors 2009, 735612 (May 18, 2009); doi:10.1117/12.822857
- 2) Beranová, Lenka - Humpolíčková, Jana - Hof, Martin
Fluorescenční korelační spektrometrie. *Chemické listy*. Roč. 103, č. 2 (2009), s. 125-129.
- 3) Blanco-Rodríguez, A. M. - Busby, M. - Ronayne, K. L. - Towrie, M. - Grădinaru, C. - Sudhamsu, J. - Sýkora, Jan - Hof, Martin - Záliš, Stanislav - Di Billio, A. J. - Crane, B. R. - Gray, H. B. - Vlček Jr., Antonín Relaxation Dynamics of Pseudomonas aeruginosa ReI(CO)₃(.alpha.-diimine)(HisX)⁺ (X = 83, 107, 109, 124, 126) CuII Azurins.
Journal of the American Chemical Society. Roč. 131, č. 33 (2009)
- 4) Humpolíčková, Jana - Benda, Aleš - Beranová, Lenka - Hof, Martin
Compaction mechanism of intermediate-sized DNA elucidated by fluorescence lifetime correlation spectroscopy. *Chemické listy*. Roč. 103, č. 11 (2009), s. 911-914.
- 5) Huranová, Martina - Jablonski, J.A. - Benda, Aleš - Hof, Martin - Staněk, David - Caputi, M.
In vivo detection of RNA-binding protein interactions with cognate RNA sequences by fluorescence resonance energy transfer.
R N A. Roč. 15, č. 11 (2009), s. 2063-2071.
- 6) Jesenská, A. - Sýkora, Jan - Olžyňská, Agnieszka - Brezovský, J. - Zdráhal, Z. - Damborský, J. - Hof, Martin
Nanosecond Time-Dependent Stokes Shift at the Tunnel Mouth of Haloalkane Dehalogenases.
Journal of the American Chemical Society. Roč. 131, č. 2 (2009), s. 494-501.
- 7) Kubát, Pavel - Lang, Kamil - Janda, Pavel - Frank, O. - Matulková, Irena - Sýkora, Jan - Civiš, Svatopluk - Hof, Martin - Kavan, Ladislav
Self-Assemblies of Cationic Porphyrins with Functionalized Water-Soluble Single-Walled

Carbon Nanotubes.

Journal of Nanoscience and Nanotechnology. Roč. 9, č. 10 (2009), s. 5795-5802.

- 8) Mosinger, Jiří - Lang, Kamil - Kubát, Pavel - Sýkora, Jan - Hof, Martin - Plíštil, J. - Mosinger, B.
Photofunctional polyurethane nanofabrics doped by zinc tetraphenylporphyrin and zinc phthalocyanine photosensitizers.
Journal of Fluorescence. Roč. 19, č. 4 (2009), s. 705-713.
- 9) Olžyńska, Agnieszka - Jurkiewicz, Piotr - Hof, Martin
Fluorescence solvent relaxation in cationic membranes.
Reviews in Fluorescence 2007. Hardcover : Springer, 2009 - (Geddes, C.) S. 119-139. ISBN 978-0-387-88721-0. - (Reviews in Fluorescence. Annual volumes 2007)
- 10) Procházka, K. - Matějček, P. - Uchman, M. - Štěpánek, M. - Humpolíčková, Jana - Hof, Martin - Špírková, Milena
pH-Dependent Behavior of Hydrophobically Modified Polyelectrolyte Shells of Polymeric Nanoparticles.
Macromolecular Symposia. Roč. 273, - (2009), s. 95-102.
- 11) Sýkora, Jan - Bouřová, Lenka - Hof, Martin - Svoboda, Petr
The effect of detergents on trimeric G-protein activity in isolated plasma membranes from rat brain cortex: Correlation with studies of DPH and Laurdan fluorescence.
Biochimica Et Biophysica Acta-Biomembranes. Roč. 1788, č. 2 (2009), s. 324-332.
- 12) Šachl, Radek - Mikhalyov, I. - Hof, Martin - Johansson, L. B. A.
A comparative study on ganglioside micelles using electronic energy transfer, fluorescence correlation spectroscopy and light scattering techniques.
Physical Chemistry Chemical Physics. Roč. 11, č. 21 (2009), s. 4335-4343.
- 13) Štefl, Martin - Kulakowska-Zań, Anna - Hof, Martin
Simultaneous Characterization of Lateral Lipid and Prothrombin Diffusion Coefficients by Z-Scan Fluorescence Correlation Spectroscopy.
Biophysical Journal. Roč. 97, č. 3 (2009), L01-L04.
- 14) Vácha, Robert - Siu, S. W. I. - Petrov, Michal - Böckmann, R. A. - Barucha-Kraszewska, Justyna - Jurkiewicz, Piotr - Hof, Martin - Berkowitz, M. L. - Jungwirth, Pavel
Effects of alkali cations and halide anions on the DOPC lipid membrane.
Journal of Physical Chemistry A. Roč. 113, č. 26 (2009), s. 7235-7243.
- 15) Blanco-Rodríguez, A. M. - Ronayne, K. L. - Zálíš, Stanislav - Sýkora, Jan - Hof, Martin - Vlček Jr., Antonín
Solvation-driven excited-state dynamics of [Re(4-Et-Pyridine)(CO)(3)(2,2'-bipyridine)](+) in imidazolium ionic liquids. A time-resolved infrared and phosphorescence study.
Journal of Physical Chemistry A. Roč. 112, č. 16 (2008), s. 3506-3514.
- 16) Humpolíčková, Jana - Benda, Aleš - Sýkora, Jan - Macháň, Radek - Kral, Teresa - Gasinska, B. - Enderlain, J. - Hof, Martin
Equilibrium dynamics of spermine-induced plasmid DNA condensation revealed by fluorescence lifetime correlation spectroscopy.
Biophysical Journal. Roč. 94, č. 3 (2008), L17-L19.
- 17) Humpolíčková, Jana - Beranová, Lenka - Štěpánek, M. - Benda, Aleš - Procházka, K. - Hof, Martin
Fluorescence Lifetime Correlation Spectroscopy Reveals Compaction Mechanism of 10 and 49

- kbp DNA and Differences between Polycation and Cationic Surfactant.
Journal of Physical Chemistry B. Roč. 112, č. 51 (2008), s. 16823-16829.
- 18) Humpolíčková, Jana - Štěpánek, M. - Kral, Teresa - Benda, Aleš - Procházka, K. - Hof, Martin
On mechanism of intermediate-sized circular DNA compaction mediated by spermine:
Contribution of fluorescence lifetime correlation spectroscopy.
Journal of Fluorescence. Roč. 18, 3-4 (2008), s. 679-684.
- 19) Jurkiewicz, Piotr - Koňák, Čestmír - Šubr, Vladimír - Hof, Martin - Štěpánek, Petr - Ulbrich, Karel
Investigation of nanoparticle coating by fluorescence correlation spectroscopy.
Macromolecular Chemistry and Physics. Roč. 209, č. 14 (2008), s. 1447-1453.
- 20) Kubát, Pavel - Lang, Kamil - Lhoták, P. - Janda, Pavel - Sýkora, Jan - Matějček, P. - Hof, Martin
- Procházka, K. - Zelinger, Zdeněk
Porphyrin/calixarene self-assemblies in aqueous solution.
Journal of Photochemistry and Photobiology A-Chemistry. Roč. 198, č. 1 (2008), s. 18-25.
- 21) Lang, Kamil - Kubát, Pavel - Mosinger, Jiří - Bujdák, J. - Hof, Martin - Janda, Pavel - Sýkora, Jan - Iyi, N.
Photoactive oriented films of layered double hydroxides.
Physical Chemistry Chemical Physics. Roč. 10, č. 30 (2008), s. 4429-4434.
- 22) Miszta, Adam - van Deursen, B. - Schoufs, R. - Hof, Martin - Hermens, W. Th.
Absence of ethanol-induced interdigitation in supported phospholipid bilayers on silica surfaces.
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- 23) Miszta, Adam - Macháň, Radek - Benda, Aleš - Ouellette, A. J. - Hermens, W. Th. - Hof, Martin
Combination of ellipsometry, laser scanning microscopy and Z-scan fluorescence correlation spectroscopy elucidating interaction of cryptdin-4 with supported phospholipid bilayers.
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- 24) Olžyńska, Agnieszka - Jurkiewicz, Piotr - Hof, Martin
Properties of mixed cationic membranes studied by fluorescence solvent relaxation.
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- 25) Šachl, R. - Štěpánek, M. - Procházka, K. - Humpolíčková, Jana - Hof, Martin
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- 26) Valenta, J. - Fučíková, A. - Vácha, František - Adamec, František - Humpolíčková, Jana - Hof, Martin - Pelant, Ivan - Kůsová, Kateřina - Dohnalová, Kateřina - Linnros, J.
Light-emission performance of silicon nanocrystals deduced from single quantum dot spectroscopy.
Advanced Functional Materials. Roč. 18, č. 18 (2008), s. 2666-2672.
- 27) Karel Procházka,^{*1} Pavel Matějček,¹ Mariusz Uchman,¹ Miroslav Štěpánek, Jana Humpolíčková,² Martin Hof,² Milena Špiřková³ pH-Dependent Behavior of Hydrophobically Modified Polyelectrolyte Shells of Polymeric Nanoparticles; **Macromolecular Symposia** Special Issue: POLYSOLVAT-7: Polymer-Solvent Complexes and Intercalates Volume 273, Issue 1, pages 95–102, November 2008
- 28) Adjimatera, N. - Benda, Aleš - Blagbrough, I. S. - Langner, M. - Hof, Martin - Kral, Teresa
Fluorescence correlation spectroscopic studies of a single lipopolyamine-DNA nanoparticle.

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 - 30) Sýkora Jan, Slavíček Petr, Jungwirth Pavel, Barucha Justyna, Hof Martin Time-Dependent Stokes Shifts of Fluorescent Dyes in the Hydrophobic Backbone Region of a Phospholipid Bilayer: Combination of Fluorescence Spectroscopy and Ab Initio Calculations (2007) *Journal of Physical Chemistry B*, 111, 5868-5877.
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