

List of Publications

R. Steitz

July 2, 2018

- *Drastic Swelling of Lipid Oligobilayers by Polyelectrolytes - A Potential Molecular Model for the Internal Structure of Lubricating Films in Mammalian Joints*
Felicitas Schwörer, Marcus Trapp, Xiao Xu, Olaf Soltwedel, Joachim Dzubiella, Roland Steitz, and Reiner Dahint
Langmuir, 2018, 34 (4), pp 1287–1299
DOI: 10.1021/acs.langmuir.7b03229
- *Magnetic state of Nb(1-7nm)/Cu₃₀Ni₇₀ (6nm) superlattices revealed by Polarized Neutron Reflectometry and SQUID magnetometry,*
Yu. Khaydukov, R. Morari, D. Lenk, V. Zdravkov, D.G. Merkel, B.-K. Seidlhofer, C. Müller, H.-A. Krug von Nidda, T. Keller, R. Steitz, A. Sidorenko, S. Horn, R. Tidecks, and B. Keimer
IOP Conf. Series: Journal of Physics: Conf. Series 862 (2017) 012013.
DOI:10.1088/1742-6596/862/1/012013
- *Electrochemical lithiation of silicon electrodes: neutron reflectometry and secondary ion mass spectrometry investigations*
Bujar Jerliu, Lars Dörrer, Erwin Hüger, Beatrix-Kamelia Seidlhofer, Roland Steitz, Günter Borchardt, Harald Schmidt
Int J Mater Res, 108 (2017) 999-1007.
DOI: 10.3139/146.111536
- *On the explanation of Paramagnetic Meissner effect in superconductor/ferromagnet heterostructures*
B. Nagy, Yu. Khaydukov, D. Efremov, A. S. Vasenko, L. Mustafa, J.-H. Kim, T. Keller, K. Zhernenkov, A. Devishvili, R. Steitz, B. Keimer and L. Bottyán
EPL, 116 (2016) 17005
- *BioRef II – neutron reflectometry with relaxed resolution for fast, kinetic measurements at HZB*
M. Trapp, R. Steitz, M. Kreuzer, M. Strobl, M. Rose, R. Dahint
Review of Scientific Instruments 87, 105112 (2016); DOI: 10.1063/1.4964294
- *Lithiation of a Crystalline Silicon Model Anode for Lithium-Ion Batteries*
Beatrix-Kamelia Seidlhofer, Bujar Jerliu, Erwin Hüger, Robert Cubitt, Harald Schmidt, Roland Steitz, Matthias Ballauff

- 2016, ACS Nano, 10, 7458-7466.
- *Preparation of a new oligolamellar stratum corneum lipid model*
Müller, Josefin; Schroeter, Annett; Steitz, Roland; Trapp, Marcus; Neubert, Reinhard
Langmuir 2016, 32, 4673
 - *Volume profile of α -chymotrypsin during adsorption and enzymatic reaction at a poly(acrylic acid) brush*
Artem Levin, Mirko Erkkamp, Roland Steitz, Claus Czeslik
Physical Chemistry Chemical Physics 2016, 18 (13), 9070-9078.
 - *Comparative adsorption of saturated and unsaturated fatty acids at the iron oxide/oil interface*
Wood, Mary; Casford, Michael; Steitz, Roland; Zorbakhsh, Ali; Welbourn, Rebecca; Clarke, Stuart
Langmuir 2016, 32, 534-540.
 - *Polymer-Induced Swelling of Solid-Supported Lipid Membranes*
Martin Kreuzer, Marcus Trapp, Reiner Dahint, Roland Steitz,
Membranes 2016, 6, 2; DOI:10.3390/membranes6010002
 - *Surface Active Lipid Linings under Shear Load – A Combined In-Situ Neutron Reflectivity and AFT-FTIR Study*
Felicitas Schwörer, Marcus Trapp, Matthias Ballauff, Reiner Dahint and Roland Steitz
Langmuir 2015, 31 (42), 11539-11548.
 - *Poly-acrylic acid brushes and adsorbed proteins*
Matthias Reinhardt, Martin Kreuzer, Thomas Geue, Reiner Dahint, Matthias Ballauff and Roland Steitz,
Zeitschrift Für Physikalische Chemie-International Journal of Research in Physical Chemistry & Chemical Physics 2015, 229, (7-8), 1119-1139.
 - *Substrate-stress-induced magnetic/nonmagnetic structural correlations in Fe/Si multilayers*
Amitesh Paul, Anke Teichert, Thomas Krist, and Roland Steitz
Journal of Applied Crystallography, 2015, 48, (4), 1023-1033.
 - *Bilayer undulation dynamics in unilamellar phospholipid vesicles: Effect of temperature, cholesterol and trehalose*
Beate-Annette Brüning, Sylvain Prévost, Ralf Stehle, Roland Steitz, Peter Falus, Bela Farago, Thomas Hellweg
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- *Design of a horizontal neutron reflectometer for the European Spallation Source*
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- *Volume Expansion during Lithiation of Amorphous Silicon Thin Film Electrodes Studied
by In-Operando Neutron Reflectometry*
Jerliu, B.; Hueger, E.; Doerrler, L.; Seidlhofer, B. -K.; Steitz, R.; Oberst, V.; Geckle, U.;
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- *Interdependence between training and magnetization reversal in granular Co-CoO
exchange bias systems*
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- *About different types of water in swollen polyelectrolyte multilayers*
Koehler, R.; Steitz, R.; von Klitzing, R.,
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- *Fine-Tuning the Structure of Stimuli-Responsive Polymer Films by Hydrostatic Pressure
and Temperature*
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- *Neutron reflectometry studies on the lithiation of amorphous silicon electrodes in lithium-
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Physical Chemistry Chemical Physics 2013, 15 (20), 7777-7784.
- *Exchange bias induced by O ion implantation in ferromagnetic thin films*
Demeter, J.; Menéndez, E.; Schrauwen, A.; Teichert, A.; Steitz, R.; Vandezande, S.;
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Martin Kreuzer, Markus Strobl, Matthias Reinhardt, Marie Charlotte Hemmer, Thomas Hauß, Reiner Dahint, Roland Steitz,
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- *Influence of magnetocrystalline anisotropy on the magnetization reversal mechanism in exchange bias Co/CoO bilayers*
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- *BioRef - a versatile time-of-flight reflectometer for soft matter applications at Helmholtz-Zentrum Berlin*

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 - *Magnetic Proximity Effects in V/Fe Superconductor/Ferromagnet Single Bilayer Revealed by Waveguide-Enhanced Polarized Neutron Reflectometry*
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