

Günter Reiter: Veröffentlichungen / *publications*

Inhalt / *content*

Artikel in Fachzeitschriften / <i>articles in scientific journals</i>	1
Tagungsberichte / <i>proceedings</i>	13
Leitartikel / <i>editorials</i>	15
Buchbeiträge / <i>book chapters</i>	15
Bücher / <i>books</i>	17

Artikel in Fachzeitschriften / *articles in scientific journals*

2019

[Controlling Nucleation in Quasi-Two-Dimensional Langmuir Poly\(L-lactide\) Films through Variation of the Rate of Compression](#)

Abhijna Das, Ahmed S. El-Tawargy, Emna Khechine, Sebastian Noack, Helmut Schlaad, Günter Reiter, and Renate Reiter. *Langmuir* 35 (2019) 6129-6136

[Dewetting Rheology for Determining Viscoelastic Properties of Non-equilibrated Thin Polymer Films](#)

Austine A. Mulama, Sivasurender Chandran, Konstantinos Roumpos, Andrew O. Oduor, and Günter Reiter. *Macromolecules* 52 (2019) 7894-7903

[Relation between Charge Transport and the Number of Interconnected Lamellar Poly\(3-hexylthiophene\) Crystals](#)

Binghua Wang, Jingbo Chen, Changyu Shen, Günter Reiter, Bin Zhang. *Macromolecules* 52 (2019) 6088-6096

[Fully Isotactic Poly\(p-methylstyrene\): Precise Synthesis via Catalytic Polymerization and Crystallization Studies](#)

Tianyu Wu, Luis Valencia, Thomas Pfohl, Barbara Heck, Günter Reiter, Pierre Lutz, Rolf Mülhaupt. *Macromolecules* 52 (2019) 4839-4846

[Photoelectronic properties of composite films based on conductive polymer PIDT-BT and single-walled carbon nanotubes](#)

Andrey N. Aleshin, Baode Zhang, Petr A. Aleshin, Vasily N. Petrov, Irina N. Trapeznikova, Günter Reiter, Janis Kleperis. *SN Applied Sciences* 1 (2019) 1101

[Segmental Rearrangements Relax Stresses in Nonequilibrated Polymer Films](#)

Sivasurender Chandran, Günter Reiter. *ACS Macro Letters*, 8, 646, (2019)

[Thermodynamic Features of Perfectly Crystalline Poly\(3-Hexylthiophene\) Based on Flory's Relation](#)

Mina Alizadehghadam, Silvia Siegenführ, Farhang Abbasi, and Günter Reiter. *Journal of Polymer Science Part B: Polymer Physics* 57, 431-437 (2019)

[Thermodynamic Features of Perfectly Crystalline Poly\(3-hexylthiophene\) Revealed Through Studies of Imperfect Crystals](#)

Mina Alizadehghadam, Barbara Heck, Silvia Siegenführ, Farhang Abbasi, and Günter Reiter. *Macromolecules* 52 (2019) 2487-2494

[A Structural Fibrillation Parameter from Small Angle X-ray Scattering to Quantify Pulp Refining](#)

Jia Mao, Barbara Heck, Hatem Abushammala, Günter Reiter, and Marie-Pierre Laborie. *Cellulose* 26 (2019) 4265-4277

[Controlling the Growth of Stacks of Correlated Lamellar Crystals of a Block Copolymer](#)

Sumit Majumder, Renate Reiter, Jun Xu and Günter Reiter. *Macromolecules* 52 (2019) 9665-9671

[Determination of the Critical Size of Secondary Nuclei on the Lateral Growth Front of Lamellar Polymer Crystals](#)

Shujing Zhang, Jiarui Han, Yang Gao, Bao-Hua Guo, Günter Reiter, Jun Xu. *Macromolecules* 52 (2019) 7439-7447

[A Nucleation Mechanism Leading to Stacking of Lamellar Crystals in Polymer Thin Films](#)

Sumit Majumder, Purushottam Poudel, Hui Zhang, Jun Xu, Günter Reiter. *Polymer International* 2019, DOI 10.1002/pi.5905

[Processing Pathways Decide Polymer Properties at the Molecular Level](#)

S. Chandran, D. Cangialosi, K. Fukao, E. Glynos, L. M. C. Janssen, M. Müller, M. Muthukumar, U. Steiner, J. Xu, S. Napolitano, and G. Reiter. *Macromolecules* 52 (2019) 7146-7156

[Controlling the Pore Size in Conjugated Polymer Films via Crystallization-Driven Phase Separation](#)

Shaowen Guo, Changyu Shen, Jingbo Chen, Günter Reiter, Bin Zhang. *Soft Matter* 15 (2019) 2981-2989

[Self-Assembly of Oligo\(phenylene-thiophene\)s on Monolayer Graphene: Molecular Dynamics Simulations](#)

Natalia Borzdun, Victor Nazarychev, Sergey Larin, Guenter Reiter, Sergey Lyulin. *J. Phys. Chem. C*, 123 (2019) 859–867

[Functional macromolecular systems: kinetic pathways to obtain tailored structures](#)

V. Abetz, K. Kremer, M. Müller, and G. Reiter. *Macromolecular Chemistry and Physics* 2019, 1800334

2018

[Growth Kinetics of Stacks of Lamellar Polymer Crystals](#)

Sumit Majumder, Hanna Busch, Purushottam Poudel, Stefan Mecking, and Günter Reiter. *Macromolecules* 51 (2018) 8738–8745

[Self-Interference of Exciton Emission in Organic Single Crystals Visualized by Energy-Momentum Spectroscopy](#)

Christian Schörner, Sajedah Motamen, Laurent Simon, Günter Reiter, Richard Hildner. *ACS Omega* 3 (2018) 6728–6736

[Formation of Periodically Modulated Polymer Crystals](#)

Purushottam Poudel, Sumit Majumder, Sivasurender Chandran, Hui Zhang, Günter Reiter. *Macromolecules* 51 (2018) 6119–6126

[Generating Nanoscopic Patterns in Conductivity Within a Poly\(3-hexylthiophene\) Crystal Via Bias-controlled Scanning Probe Nanolithography](#)

Binghua Wang, Bin Zhang, Changyu Shen, Jingbo Chen, Günter Reiter. *Macromolecules* 51 (2018) 7692-7698

[Systematic Control of Self-Seeding Crystallization Patterns of Poly\(ethylene oxide\) in Thin Films](#)

Binghua Wang, Shaohua Tang, Yan Wang, Changyu Shen, Renate Reiter, Günter Reiter, Jingbo Chen, Bin Zhang. *Macromolecules* 51, 1626–1635 (2018)

[Tuning relaxation dynamics and mechanical properties of polymer films of identical thickness](#)

Marwa Kchaou, Pierre Alcouffe, Sivasurender Chandran, Philippe Cassagnau, Günter Reiter, and Samer Al Akhrass. *Phys. Rev. E* 97, 032507 (2018)

[Highly n-doped graphene generated through intercalated terbium atoms](#)

L. Daukiya, M. N. Nair, S. Hajjar-Garreau, F. Vonau, D. Auel, J. L. Bubendorff, M. Cranney, E. Denys, A. Florentin, G. Reiter, and L. Simon. *Phys. Rev. B* 97, 035309 (2018)

[Multiple structural transitions in Langmuir monolayers of charged soft-shell nanoparticles](#)

Ahmed El-Tawargy, David Stock, Markus Gallei, Wael Ramadan, Mamdoh Shams El-Din, Günter Reiter, Renate Reiter. *Langmuir* 34, 3909–3917 (2018)

2017

[Thermodynamic origin of multi-layer structures in Langmuir polymer films](#)

Volker Knecht, Günter Reiter, Renate Reiter. *Langmuir* 33 (2017) 11399–11405

[Structure Formation in Langmuir Peptide Films As Revealed from Coarse-Grained Molecular Dynamics Simulations](#)

Volker Knecht, Günter Reiter, Helmut Schlaad, and Renate Reiter. *Langmuir* 33 (2017) 6492-6502

[Signatures of Melting and Recrystallization of a Bulky Substituted Poly\(thiophene\) Identified by Optical Spectroscopy](#)

- Fanuel Keheze, Dominic Raithel, Tianyu Wu, Daniel Schiefer, Michael Sommer, Richard Hildner, Günter Reiter. *Macromolecules* 50 (2017) 6829–6839
- [Triple-Shape Memory Materials via Thermoresponsive Behavior of Nanocrystalline Non-Isocyanate Polyhydroxyurethanes](#)
Vitalij Schimpf, Barbara Heck, Günter Reiter, Rolf Mülhaupt. *Macromolecules* 50 (2017) 3598–3606
- [Semicrystalline long-chain polyphosphoesters from polyesterification](#)
Hanna Busch, Sumit Majumder, Guenter Reiter, Stefan Mecking. *Macromolecules* 50 (2017) 2706–2713
- [Blocking of injected holes at the charge extracting interface](#)
L. Govor, G. Reiter, J. Parisi. *Journal of Physics, Condensed Matter* 29 (2017) 025001
- [Relaxing Non-equilibrated Polymers in Thin Films at Temperatures Slightly Above the Glass Transition](#)
Mithun Chowdhury, Samer Al Akhrass, Falko Ziebert, Günter Reiter. *Journal of Polymer Science Part B: Polymer Physics* 55 (2017) 515–523
- [Solvent-controlled reversible switching between adsorbed self-assembled nanoribbons and nanotubes](#)
Asad Jamal, Irina Nyrkova, Philippe Mesini, Swann Militzer and Günter Reiter. *Nanoscale* 9 (2017) 3293–3303
- [Low Loss Optical Waveguiding in Large Single Crystals of Thiophene-Based Oligomers](#)
Sajedeh Motamen, Christian Schörner, Dominic Raithel, Jean-Pierre Malval, Thibaut Jarrosson, Françoise Serein-Spirau, Laurent Simon, Richard Hildner, Günter Reiter. *Physical Chemistry Chemical Physics* 19 (2017) 15980 - 15987
- [Time Allowed for Equilibration Quantifies the Preparation Induced Non-equilibrium Behavior of Polymer Films](#)
Sivasurender Chandran, Rishab Handa, Marwa Kchaou, Samer Al Akhrass, Alexander Semenov, Günter Reiter. *ACS Macro Lett.* 6 (2017) 1296–1300
- [A novel interferometric method for the study of the viscoelastic properties of ultra-thin polymer films determined from nanobubble inflation](#)
P. Chapuis, P. C. Montgomery, F. Anstötz, A. Leong-Hoi, C. Gauthier, J. Baschnagel, G. Reiter, G. B. McKenna, and A. Rubin. *Review of Scientific Instruments* 88 (2017) 093901
- [Controlling Polymer Crystallization Kinetics by Sample History](#)
Purushottam Poudel, Sivasurender Chandran, Sumit Majumder and Günter Reiter. *Macromol. Chem. Phys.* 2017, 1700315
- [Morphological Changes of Isotactic Polypropylene Crystals Grown in Thin Films](#)
Bin Zhang, Jijia Chen, Baochen Liu, Binghua Wang, Changyu Shen, Renate Reiter, Jingbo Chen, Günter Reiter. *Macromolecules* 50 (2017) 6210–6217
- [Covalent Functionalization by Cycloaddition Reactions of Pristine Defect-Free Graphene](#)
L. Daukiya, C. Mattioli, D. Aubel, S. Hajjar-Garreau, F. Vonau, E. Denys, G. Reiter, J. Fransson, E. Perrin, M-L. Bocquet, C. Bena, A. Gourdon, and L. Simon. *ACS Nano* 11 (2017) 627–634
- 2016**
- [Stabilization of nuclei of lamellar polymer crystals: Insights from a comparison of the Hoffman-Weeks line with the crystallization line](#)
Jun Xu, Barbara Heck, Hai-Mu Ye, Jing Jiang, Yi-Ren Tang, Jin Liu, Bao-Hua Guo, Renate Reiter, Dongshan Zhou, Günter Reiter. *Macromolecules* 49 (2016) 2206–2215
- [How Chain-Folding Crystal Growth Determines Thermodynamic Stability of Polymer Crystals](#)
Xiaoming Jiang, Günter Reiter, Wenbing Hu. *J. Phys. Chem. B*, 120 (2016) 566–571, DOI: 10.1021/acs.jpcc.5b09324
- [Assembling semiconducting molecules by covalent attachment to a lamellar crystalline polymer substrate](#)
Rainhard Machatschek, Patrick Ortmann, Renate Reiter, Stefan Mecking and Günter Reiter. *Beilstein J. Nanotechnol.* 7 (2016) 784–798
- [Intrinsic Stresses in Thin Glassy Polymer Films Revealed by Crack Formation](#)
Mithun Chowdhury, Xiaoyuan Sheng, Falko Ziebert, Arnold C.-M. Yang, Alessandro Sepe, Ullrich Steiner, and Günter Reiter. *Macromolecules*, accepted
- [Transient cooperative processes in dewetting polymer melts](#)
Sivasurender Chandran, Günter Reiter, *PRL* 116 (2016) 088301

[Revealing Order and Disorder in Films and Single Crystals of a Thiophene-Based Oligomer by Optical Spectroscopy](#)

Sajede Motamen, Dominic Raithel, Richard Hildner, Khosrow Rahimi, Thibaut Jarrosson, Françoise Serein-Spirau, Laurent Simon, and Günter Reiter. ACS Photonics, published online. DOI: 10.1021/acsp Photonics.6b00473

[Poly\(2,5-dioctylphenyl-3-thiophene\) synthesized by direct arylation polycondensation: End groups, defects and crystallinity](#)

Daniel Schiefer, Hartmut Komber, Fanuel Mugwanga Keheze, Susanna Kunz, Ralf Hanselmann, Guenter Reiter, Michael Sommer. Macromolecules 49 (2016) 7230-7237. DOI: 10.1021/acs.macromol.6b01795

[How Molecules with Dipole Moments Enhance the Selectivity of Electrodes in Organic Solar Cells – A Combined Experimental and Theoretical Approach](#)

Uli Würfel, Martin Seßler, Moritz Unmüssig, Nils Hofmann, Mathias List, Eric Mankel, Thomas Mayer, Günter Reiter, Jean-Luc Bubendorff, Laurent Simon, and Markus Kohlstädt. Adv. Energy Mat. 1600594 (2016), DOI: 10.1002/aenm.201600594

[When hole extraction determines charge transfer across metal-organic-metal structure](#)

L. V. Govor, G. Reiter and J. Parisi, EPL, 113 (2016) 57002

[Influence of interfacial trap states on injecting and extracting of charges across a metal-organic interface](#)

L.V. Govor, G. Reiter and J. Parisi. J. Phys. D: Appl. Phys. 49 (2016) 135306

[Tunneling of charge carriers across a gold–squaraine interface](#)

L.V. Govor, G. Reiter and J. Parisi, Physics Letters A 380 (2016) 1493–1498

[Self-assembly behavior of a rod-like polypeptide at the air-water interface](#)

Renate Reiter, Frédéric Wintzenrieth, Günter Reiter. Polymer, published online, <http://dx.doi.org/10.1016/j.polymer.2016.08.023>

[Flow-Induced Dendritic \$\beta\$ -Form Isotactic Polypropylene Crystals in Thin Films](#)

Bin Zhang, Binghua Wang, JiaJia Chen, Changyu Shen, Renate Reiter, Jingbo Chen, and Günter Reiter. Macromolecules 49 (2016) 5145–5151. DOI: 10.1021/acs.macromol.6b01123

2015

[Simulation of secondary nucleation of polymer crystallization via a model of microscopic kinetics](#)

Kun-Lun Xu, Bao-Hua Guo, Renate Reiter, Günter Reiter, Jun Xu. Chinese Chemical Letters 26 (2015) 1105–1108. DOI: 10.1016/j.ccl.2015.06.002

[Molecular Weight Dependent Changes in Morphology of Solution Grown Polyethylene Single Crystals](#)

Bin Zhang, Jingbo Chen, Moritz C. Baier, Stefan Mecking, Renate Reiter, Rolf Mülhaupt, Günter Reiter. Macrom. Rapid Comm. 36, 181-189 (2015)

[Different surface sensing of the cell body and nucleus in healthy primary cells and in a cancerous cell line on nanogrooves](#)

Patricia Davidson, Maxence Bigerelle, Günter Reiter and Karine Anselm. Biointerphases 10, 031004 (2015) / DOI: 10.1116/1.4927556

[Annealing-Induced Periodic Patterns in Solution Grown Polymer Single Crystals](#)

Bin Zhang, Jingbo Chen, Hui Zhang, Moritz C. Baier, Stefan Mecking, Renate Reiter, Rolf Mülhaupt, Günter Reiter, RSC Advances 5, 12974 (2015)

[Tuning Morphologies of Langmuir Polymer Films Through Controlled Relaxations of Non-Equilibrium States](#)

Sivasurender Chandran, Stefanie Dold, Amaury Buvignier, Kai-Steffen Krannig, Helmut Schlaad, Günter Reiter, and Renate Reiter. Langmuir 2015, 31, 6426–6435. DOI: 10.1021/acs.langmuir.5b01212

[High Temperature Stability of Dewetting-Induced Thin Polyethylene Filaments](#)

Bin Zhang, Jingbo Chen, Paul Freyberg, Renate Reiter, Rolf Mülhaupt, Jun Xu, Günter Reiter. Macromolecules 48, 1518–1523 (2015)

[Consequences of a Single Double Bond within a Side-Group on the Ordering of Supra-Molecular Polymers](#)

Roozbeh Shokri, Olga Guskova, Asad Jamal, Kaiwan Jahanshahi, Benjamin Isare, Laurent Bouteiller, Laurent Simon, Jens-Uwe Sommer, Günter Reiter. The Journal of Physical Chemistry, Part C 119 (2015) 22596–22603

[Variation of the contact resistance with electric current for gold electrodes on a squaraine single crystal](#)

Leonid Govor, Guenter Reiter, and Jurgen Parisi. *Phys. Status Solidi A* 212 (2015) 2738–2746, DOI 10.1002/pssa.201532241

[Cellulose nanocrystals' production in near theoretical yields by 1-butyl-3-methylimidazolium hydrogen sulfate \(\[Bmim\]HSO₄\) – mediated hydrolysis](#)

Jia Mao, Barbara Heck, Günter Reiter, Marie-Pierre Laborie. *Carbohydrate Polymers* 117, 443–451 (2015)

2014

[Correlating polymer crystals via self-induced nucleation](#)

Hui Zhang, Muhuo Yu, Bin Zhang, Renate Reiter, Maximilian Vielhauer, Rolf Mülhaupt, Jun Xu, Günter Reiter. *PhysRevLett* 112, 237801 (2014)

[Anisotropic Photophysical Properties of Highly Aligned Crystalline Structures of a Bulky Substituted Poly\(thiophene\)](#)

Yingying Wang, Barbara Heck, Daniel Schiefer, John O. Agumba, Michael Sommer, Tao Wen, and Günter Reiter. *ACSMacroLett.* 3, 881-885 (2014)

[Some unique features of polymer crystallisation](#)

Günter Reiter. *Chem. Soc. Rev.*, 43, 2055-65 (2014), DOI: 10.1039/C3CS60306G

[Anisotropic charge transport in large single crystals of \$\pi\$ -conjugated organic molecules](#)

Wael Hourani, Khosrow Rahimi, Ioan Botiz, Felix Peter Vinzenz Koch, Günter Reiter, Peter Lienert, Thomas Heiser, Jean-Luc Bubendorff, and Laurent Simon. *Nanoscale* 6, 4774 (2014)

[Nickel Catalyst with a Hybrid P, N Ligand for Kumada Catalyst Transfer Polycondensation of Sterically Hindered Thiophenes](#)

Daniel Schiefer, Tao Wen, Yingying Wang, Pierre Goursot, Hartmut Komber, Ralf Hanselmann, Pierre Braunstein, Günter Reiter, Michael Sommer. *ACSMacroLett.* 3, 617-621 (2014)

[Light absorption of poly\(3-hexylthiophene\) single crystals](#)

Khosrow Rahimi, Ioan Botiz, John O. Agumba, Sajedah Motamen, Natalie Stingelin, Günter Reiter. *RSC Adv.* 4, 11121 (2014)

[Tunneling Spectroscopy Measurements on Hydrogen-Bonded Supramolecular Polymers](#)

François Vonau, Dominique Aubel, Laurent Bouteiller, Roozbeh Shokri, Günter Reiter, Olga Guskova, Laurent Simon. *Nanoscale* 6, 8250 (2014)

[The Crucial Role of Cadmium Acetate-Induced Conformational Restriction in Microscopic Structure and Stability of Polystyrene-block-Polyvinyl pyridine Thin Films](#)

Feifei Xue, Hongfei Li, Jichun You, Conghua Lu, Günter Reiter, Shichun Jiang. *Polymer* 55, 5801-5810 (2014)

2013

[Reversible Nucleation, Growth and Dissolution of Poly\(\$\gamma\$ -benzyl L-glutamate\) Hexagonal Columnar Liquid Crystals by Addition and Removal of a Nonsolvent](#)

Kaiwan Jahanshahi, Ioan Botiz, Renate Reiter, Harald Scherer, Günter Reiter. *Cryst. Growth Des.* 13, 4490–4494 (2013)

[Massive Enhancement of Photoluminescence through Nanofilm Dewetting](#)

Peiwei Lee, Wei-Cheng Li, Bin-Jih Chen, Chih-Wei Yang, Chun-Chih Chang, Ioan Botiz, Günter Reiter, Tsang-Lang Lin, Jau Tang, and Arnold Chang-Mou Yang. *ACS Nano* 7, 6658–6666 (2013)

[Toughening Plastics by Crack Growth Inhibition Through Unidirectionally Deformed Soft Inclusions](#)

Sen Zhang, Shu Zhu, Keqing Han, Xiaoling Feng, Yu Ma, Muhuo Yu, Günter Reiter. *Polymer* 54, 6019–6025 (2013)

[Crystallization of Poly\(\$\gamma\$ -benzyl L-glutamate\) in Thin Film Solutions: Structure and Pattern Formation](#)

Kaiwan Jahanshahi, Ioan Botiz, Renate Reiter, Ralf Thomann, Barbara Heck, Roozbeh Shokri, Werner Stille and Günter Reiter. *Macromolecules* 46, 1470-1476 (2013)

[Linear and Star-Shaped POSS Hybrid Materials Containing Crystalline Isotactic Polystyrene Chains](#)

Maximilian Vielhauer, Pierre J. Lutz, Günter Reiter und Rolf Mülhaupt. *Journal of Polymer Science, Polymer Chemistry* 51, 947–953 (2013)

[Directing nuclear deformation on micropillared surfaces by substrate geometry and cytoskeleton organization](#)

F. Badique, D. R. Stamov, P. Davidson, M. Veuillet, G. Reiter, J.N. Freund, C. M. Franz, K. Anselme. *Biomaterials* 34, 2991-3001 (2013)

[Charge transport in nanoparticle chains influenced by stabilizer molecules](#)

Leonid V. Govor, Gottfried H. Bauer, Günter Reiter, and Jürgen Parisi. *Phys. Status Solidi A*, 210, No. 6, 1107–1114 (2013)

[Generating long supramolecular pathways with a continuous density of states by physically linking conjugated molecules via their end groups](#)

R. Shokri, M. A. Lacour, J.-P. Lere-Porte, F. Serein-Spirau, K. Miqueu, J.-M. Sotiropoulos, F. Vonau, D. Aubel, M. Cranney, G. Reiter, and L. Simon, *J. Am. Chem. Soc.* 135, 5693–5698 (2013)

[Reversibly slowing dewetting of conjugated polymers by light](#)

Ioan Botiz, Paul Freyberg, Natalie Stingelin, Arnold Chang-Mou Yang, Günter Reiter. *Macromolecules* 46, 2352–2356 (2013)

[Competition of crystal nucleation to fabricate the oriented semi-crystalline polymers](#)

Yijing Nie, Huanhuan Gao, Muhuo Yu, Zuming Hu, Günter Reiter, Wenbing Hu. *Polymer* 54, 3402–3407 (2013)

2012

[Morphological changes during annealing of polyethylene nanocrystals](#)

Nandita Basu, Anna Osichow, Stefan Mecking, Günter Reiter. *EPJE* 35,18 (2012)

[Anisotropic Charge Transport in Spherulitic Poly\(3-hexylthiophene\) Films](#)

Edward J. W. Crossland, Kim Tremel, Florian Fischer, Khosrow Rahimi, Günter Reiter, Ullrich Steiner, and Sabine Ludwigs. *Adv. Mater.* 24, 839–844 (2012)

[Controllable processes for generating large single crystals of poly\(3-hexylthiophene\)](#)

Khosrow Rahimi, Ioan Botiz, Natalie Stingelin, Navaphun Kayunkid, Michael Sommer, Felix Peter, Vinzenz Koch, Ha Nguyen, Olivier Coulembier, Philippe Dubois, Martin Brinkmann and Günter Reiter. *Angew. Chem.* 124, 11293–11297 (2012)

[Effect of Shear Stress on Crystallization of Isotactic Polypropylene from a Structured Melt](#)

Bin Zhang, Jingbo Chen, Jing Cui, Fangfang Ji, Guoqiang Zhen, Hui Zhang, Barbara Heck, Günter Reiter, Changyu Shen. *Macromolecules* 45, 8933–8937 (2012)

[Swelling with a Near-Theta Solvent as a Means to Modify the Properties of Polymer Thin Films](#)

Andrew Clough, Mithun Chowdhury, Kaiwan Jahanshahi, Günter Reiter, Ophelia K.C. Tsui. *Macromolecules* 45, 6196–6200 (2012)

[Segmental Relaxations Have Macroscopic Consequences in Glassy Polymer Films](#)

Mithun Chowdhury, Paul Freyberg, Falko Ziebert, Arnold C.-M. Yang, Ullrich Steiner and Günter Reiter. *Phys. Rev. Lett.* 109, 136102 (2012)

[Consequences of varying adsorption strength and adding steric hindrance on self-assembly of supramolecular polymers on carbon substrates](#)

Roozbeh Shokri, Francois Vonau, Marion Cranney, Dominique Aubel, Ashok Narladkar, Benjamin Isare, Laurent Bouteiller, Laurent Simon, Günter Reiter. *J. Phys. Chem. C* 116 (40), 21594–21600 (2012)

2011

[Processes of Ordered Structure Formation in Polypeptide Thin Film Solutions](#)

Ioan Botiz, Helmut Schlaad, Günter Reiter. *Adv. in Polymer Science*, 242 (2011) 117–149

[Surface-induced breakout crystallization in cylinderforming P\(I-b-EO\) diblock copolymer thin films](#)

C.M. Papadakis, C. Darko, Z. Di, K. Troll, E. Metwalli, A. Timmann, G. Reiter, and S. Förster. *European Physical Journal E* 34, 7 (2011)

[Systematic Control of Nucleation Density in Poly\(3-hexylthiophene\) Thin Films](#)

Edward J. W. Crossland, Khosrow Rahimi, Günter Reiter, Ullrich Steiner, and Sabine Ludwigs. *Advanced Functional Materials* 21, 518–524 (2011)

[Non-equilibrium behavior of thin polymer films](#)

Katherine R. Thomas, Alexis Chenneviere, Günter Reiter and Ullrich Steiner. *Phys. Rev. E* 83, 021804 (2011)

2010

[Network swelling competing with translational entropy in autophobic polymer dewetting](#)

W. Beziel, G. Reiter, E. Drockenmuller, R.-V. Ostaci, S. Al Akhrass, F. Cousin, M. Sferazza. *Europhysics Letters* 90, 26008 (2010)

[Some general remarks on crystallization in the presence of additives](#)

Günter Reiter and Jean-Georges Barth. *Elemente der Naturwissenschaft* 92, 39-61 (2010)

[Accelerating Dewetting on Deformable Substrates by Adding a Liquid Underlayer](#)

Lin Xu, Günter Reiter, Tongfei Shi and Lijia An. *Langmuir* 26, 7270–7276 (2010)

[Topographically induced self-deformation of the nuclei of cells: dependence on cell type and proposed mechanisms](#)

Patricia M. Davidson, Olivia Fromigue, Pierre J. Marie, Vasif Hasirci, Günter Reiter, Karine Anselme. *J. Mater. Sci.: Mater. Med.* 21, 939-946 (2010)

[Possible origin of thickness-dependent deviations from bulk properties of thin polymer films](#)

Günter Reiter, Simone Napolitano. *Journal of Polymer Science Part B: Polymer Physics* 48, 2544-2547 (2010)

[Aging of thin polymer films cast from a near-theta solvent](#)

Adam Raegen, Mithun Chowdhury, Christophe Calers, Alexander Schmatulla, Ullrich Steiner, and Günter Reiter. *Phys. Rev. Letters* 105, 227801 (2010)

[Conductance fluctuations in metal-nanoparticle-metal junctions](#)

L. V. Govor, G. H. Bauer, G. Reiter, and J. Parisi. *Phys. Rev. B* 82, 155437 (2010)

2009

[Dewetting as an investigative tool for studying properties of thin polymer films](#)

Günter Reiter, Samer Al Akhrass, Moustafa Hamieh, Pascal Damman, Sylvain Gabriele, Thomas Vilmin, Elie Raphaël. *Eur. Phys. J. - Special Topics* 166, 165-172 (2009)

[Self-assembled patterns from evaporating layered fluids](#)

L. V. Govor, J. Parisi, G. H. Bauer, G. Reiter. *Journal of Physics - Condensed Matter* 21, 264015 (2009)

[Multi-curvature liquid meniscus in a nanochannel: Evidence of interplay between intermolecular and surface forces](#)

Pilnam Kim, Ho-Young Kim, Jae Kwan Kim, Günter Reiter, Kahp Y. Suh. *Lab Chip* 9, 3255-3260 (2009)

[Cloning Polymer Single Crystals through Self-seeding](#)

Jianjun Xu, Yu Ma, Wenbing Hu, Matthias Rehahn, and Günter Reiter. *Nature Materials* 8, 348-353 (2009)

[Polymer crystallization under nano-confinement of droplets studied by molecular simulations](#)

Wenbing Hu, Tao Cai, Yu Ma, Jamie K. Hobbs, O. Farrance, Günter Reiter. *Faraday Discussions* 143, 129-141 (2009)

[Branched substituents generate improved supramolecular ordering in physisorbed molecular assemblies](#)

F. Vonau, M. Linares, B. Isare, D. Aubel, M. Habar, L. Bouteiller, G. Reiter, V. Geskin, F. Zerbetto, R. Lazzaroni, L. Simon. *J. Phys. Chem. C* 113, 4955-4959 (2009)

[Crystallization in diblock copolymer thin films at different degrees of supercooling](#)

C. Darko, I. Botiz, G. Reiter, D.W. Breiby, J.W. Andreasen, S. V. Roth, D.-M. Smilgies, E. Metwalli, C.M. Papadakis. *Phys. Rev. E* 79, 041802 (2009)

[On the mechanics of rim instabilities in viscoelastic polymer thin films](#)

S. Gabriele, S. Coppee, G. Reiter, P. Damman. *Eur. Phys. J.-Special Topics* 166, 55-61 (2009)

[Microstructured Surfaces Cause Severe but Non-Detrimental Deformation of the Cell Nucleus](#)

Patricia M. Davidson, Hayriye Ozcelik, Vasif Hasirci, Guenter Reiter, Karine Anselme. *Advanced Materials* 21, 3586 (2009)

[Enhancing nucleation and controlling crystal orientation by rubbing/scratching the surface of a thin polymer film](#)

K. Jradi, S. Bistac, M. Schmitt, A. Schmatulla, G. Reiter. *Eur. Phys. J. E* 29, 383-389 (2009)

[Oriented crystallization of isotactic polystyrene in films prepared by friction transfer](#)

K. Jradi, S. Bistac, M. Schmitt, G. Reiter. *Polymer* 50, 3724-3729 (2009)

2008

[Influence of Progressive Cross-Linking on Dewetting of Polystyrene Thin Films](#)

Samer Al Akhrass, Roxana-Viorela Ostaci, Yves Grohens, Eric Drockenmuller, Günter Reiter. *Langmuir* 24, 1884-1890 (2008)

[The Influence of Protic Non-Solvents Present in the Environment on Structure Formation of Poly\(\$\gamma\$ -benzyl-L-glutamate\) in Organic Solvents](#)

Ioan Botiz, Nikolay Grozev, Helmut Schlaad, Günter Reiter. *Soft Matter*, 4, 993-1002 (2008)

[Viscoelastic Thin Polymer Films under Transient Residual Stresses: Two-Stage Dewetting on Soft Substrates](#)

S. Al Akhrass, G. Reiter, S.Y. Hou, M. H. Yang, Y. L. Chang, F. C. Chang, C. F. Wang, A. C.-M. Yang. *Phys. Rev. Lett.* 100, 178301 (2008)

[Semicrystalline Macromolecular Design by Nitroxide-Mediated Polymerization](#)

Khaled Karaky, Gérald Clisson, Günter Reiter, Laurent Billon. *Macromol. Chem. Phys.* 209, 715–722 (2008)

[Crystal nucleation enhanced at the diffusive interface of immiscible polymer blends](#)

Yu Ma, Liyun Zha, Wenbing Hu, Günter Reiter, Charles C. Han. *Phys. Rev. E* 77, 061801 (2008)

[Morphological Instabilities of Polymer Crystals](#)

Nikolay Grozev, Ioan Botiz, Günter Reiter. *Eur. Phys. J. E* 27, 63-71 (2008)

[Oligonucleotide nanostructured surfaces: effect on *Escherichia coli* curli expression](#)

Nicolas Cottenye, Francisco Teixeira Jr., Arnaud Ponche, Günter Reiter, Karine Anselme, Wolfgang Meier, Lydie Ploux, Corinne Vebert-Nardin. *Macromolecular Bioscience* 8, 1161-1172 (2008)

[Understanding crystal orientation in quasi-one-dimensional polymer systems](#)

Yu Ma, Wenbing Hu, Jamie Hobbs, Guenter Reiter. *Soft Matter* 4, 540-543 (2008)

2007

[Influence of Substrate Properties on the Dewetting Dynamics of Viscoelastic Polymer Films](#)

Moustafa Hamieh, Samer Al Akhrass, Tayssir Hamieh, Pascal Damman, Sylvain Gabriele, Thomas Vilmin, Elie Raphaël, Günter Reiter. *J. Adhes.* 83, 367-381 (2007)

[Switching layer stability in a polymer bilayer by thickness variation](#)

J. P. de Silva, M. Geoghegan, A. M. Higgins, G. Krausch, M.-O. David, G. Reiter. *Phys. Rev. Lett.* 98, 267802 (2007)

[Relaxation of Residual Stress and Reentanglement of Polymers in Spin-Coated Films](#)

Pascal Damman, Sylvain Gabriele, Séverine Coppée, Sylvain Desprez, Didier Villers, Thomas Vilmin, Elie Raphaël, Moustafa Hamieh, Samer Al Akhrass, Günter Reiter. *Phys. Rev. Lett.* 99, 036101 (2007)

[Cooperative Rearrangements Leading to Long Range Order in Monolayers of Supramolecular Polymers](#)

F. Vonau, D. Aubel, L. Bouteiller, G. Reiter, L. Simon. *Phys. Rev. Lett.* 99, 086103 (2007)

[Stable dispersions of highly anisotropic nanoparticles formed by cocrystallization of enantiomeric diblock copolymers](#)

D. Portinha, F. Boue, L. Bouteiller, G. Carrot, C. Chassenieux, S. Pensec, G. Reiter. *Macromolecules* 40, 4037- 4042 (2007)

[Thin Film Morphology in Triblock Terpolymers with One and Two Crystallizable Blocks](#)

Adriana Boschetti-de-Fierro, Lea Spindler, Günter Reiter, Dania Olmos, Sergei Magonov, Volker Abetz. *Macromolecules* 40, 5487-5496 (2007)

[Formation of low-dimensional close-packed arrays of nanoparticles in a dewetting water layer](#)

Leonid V. Govor, Günter Reiter, Gottfried H. Bauer, Jürgen Parisi. *Phys. Rev. E* 76, 041609 (2007)

2006

[Crystallization of block copolymers in restricted cylindrical geometries](#)

Cvetelin Vasilev, Günter Reiter, Stergios Pispas, Nikos Hadjichristidis *Polymer*, 47, 330-340 (2006)

[Self-assembled tree-like patterns from an evaporating binary solution](#)

Leonid V. Govor, Günter Reiter, Gottfried H. Bauer, Jürgen Parisi. *Phys. Rev. E* 74, 061603 (2006)

[Treelike branched structures formed in dewetting thin films of a binary solution](#)

Leonid V. Govor, Günter Reiter, Gottfried H. Bauer, Jürgen Parisi. *Appl. Phys. Lett.* 89, 133126 (2006)

[Bilayer formation in thin film of a binary solution](#)

Leonid V. Govor, Günter Reiter, Gottfried H. Bauer, Jürgen Parisi. *Physics Letters A* 353, 198–204 (2006)

Self-Assembly of Nanoparticle Ring Patterns

Jürgen Parisi, Leonid V. Govor, Gottfried H. Bauer, Günter Reiter. Zeitschrift für Naturforschung Section A, A Journal of physical sciences 61, 99-102 (2006)

The role of nonlinear friction in the dewetting of thin polymer films

T. Vilmin, E. Raphaël, P. Damman, S. Sclavons, S. Gabriele, M. Hamieh, G. Reiter. Europhys. Lett. 73, 906 - 912 (2006)

Elastomer polymer brushes on flat surface by bimolecular surface-initiated nitroxide mediated polymerization

Julien Parvole, Jean-Pierre Montfort, Günter Reiter, Oleg Borisov, Laurent Billon. Polymer, 47, 972-981 (2006)

The Formation of Ordered Polymer Structures at Interfaces

J.-U. Sommer and G. Reiter Advances in Polymer Science, 200, 1-36 (2006)

Disentanglement Time of Polymers Determines the Onset of Rim Instabilities in Dewetting

Sylvain Gabriele, Séverine Sclavons, Günter Reiter, Pascal Damman. Phys. Rev. Lett. 96, 156105 (2006)

Lamellar Crystal Orientations Biased by Crystallization Kinetics in Polymer Thin Films

Yu Ma, Wenbing Hu, Günter Reiter. Macromolecules 39, 5159-5164 (2006)

Viscoelastic dewetting of constrained polymer thin films

Pascal Damman, Séverine Sclavons, Sylvain Gabriele, Sylvain Desprez, Günter Reiter, Moustafa Hamieh, Samer Al Akhrass, Thomas Vilmin, Elie Raphaël. Journal of Polymer Science Part B: Polymer Physics 44, 3022-3030 (2006)

2005

Evolution of multilevel order in supramolecular assemblies

F. Vonau, D. Suhr, D. Aubel, L. Bouteiller, G. Reiter and L. Simon. Phys. Rev. Lett. 94, 066103 (2005)

Morphology of an asymmetric ethyleneoxide-butadiene di-block copolymer in bulk and thin films

D.M. Lambreva, R. Opitz, G. Reiter, P.M. Frederik and W.H. de Jeu. Polymer 46, 4868 (2005)

Instability and droplet formation in evaporating thin films of a binary solution

Leonid V. Govor, Jürgen Parisi, Gottfried H. Bauer and Günter Reiter. Phys. Rev. E 71, 051603 (2005)

Evolution of rim instabilities in the dewetting of slipping thin polymer films

Günter Reiter. J. Adhesion 81, 381 (2005)

Crystallization in Ultra-Thin Polymer Films/ Morphogenesis and Thermodynamical Aspects

J.-U. Sommer and G. Reiter. Thermochimica Acta, 432, 135 (2005)

Reply: Discussion of problems of non-equilibrium thermodynamics of polymers

J.-U. Sommer and G. Reiter. Thermochimica Acta, 432, 153 (2005)

Residual stresses in thin polymer films cause rupture and dominate early stages of dewetting

Günter Reiter, Moustafa Hamieh, Pascal Damman, Séverine Sclavons, Sylvain Gabriele, Thomas Vilmin, Elie Raphaël. Nature Materials 4, 754 (2005)

Structure Formation of Polystyrene-block-poly(gamma-benzyl L-glutamate) in Thin Films

S. Ludwigs, G. Krausch, G. Reiter, M. Losik, M. Antonietti, H. Schlaad. Macromolecules 38, 7532 (2005)

2004

Controlled melting of individual, nano-meter-sized, polymer crystals confined in a block copolymer mesostructure

Cvetelin Vasilev, Harry Heinzlmann, Günter Reiter. Journal of Polymer Science Part B: Polymer Physics Volume 42, 1312 – 1320 (2004)

Biocide squirting from an elastomeric tri-layer film

Philippe Sonntag, Pierre Hoerner, André Chemoyl, Gilles Argy, Gérard Riess, Günter Reiter. Nature Materials 3, 311-315 (2004)

Self-assembled nanoparticle deposits formed at the contact line of evaporating micrometer-size droplets

Leonid V. Govor, Günter Reiter, Jürgen Parisi, and Gottfried H. Bauer. Phys. Rev. E 69, 061609 (2004)

Nanoparticle ring formation in evaporating micron-size droplets

Leonid V. Govor, Günter Reiter, Gottfried H. Bauer, Jürgen Parisi. Appl. Phys. Lett. 84, 4774-4776 (2004)

[Morphogenesis and non-equilibrium pattern formation in two-dimensional polymer crystallization](#)
Jens-Uwe Sommer and Günter Reiter. Phase Transition 77, 703-745 (2004)

2003

[Self-destruction and dewetting of thin polymer films: the role of interfacial tensions](#)

G. Reiter, R. Khanna, A. Sharma. J. Phys. Condensed Matter 15 (2003) S331-S336

[Crystal growth rates of diblock copolymers in thin films: Influence of film thickness](#)

G. Reiter, L. Vidal. Eur. Phys. J. E 12, 497-505 (2003)

[Dewetting of thin polymer films at temperatures close to the glass transition](#)

G. Reiter, M. Sferrazza, P. Damman. Eur. Phys. J. E 12, 133-138 (2003)

[Thermodynamics of Formation, Reorganization and Melting of Confined Nanometer-sized Polymer Crystals](#)

Andreas Röttele, Thomas Thurn-Albrecht, Jens-Uwe Sommer, Günter Reiter. Macromolecules 36, 1257-1260 (2003)

[Polymer Crystallization on Pre-patterned Substrates](#)

G. Dorenbos, J.-U. Sommer, G. Reiter. J. Chem. Phys. 118, 784-791 (2003)

[Effet autophobe et démouillage des couches minces de polymères](#)

G. Reiter. L'Actualité Chimique, Janvier 2003, p. 12-17

[Chances and Challenges in Europe](#)

G. Reiter, N. Hadjichristidis, M. Möller. Nature Materials 2, 67-69 (2003)

[Model Experiments for a Molecular Understanding of Polymer Crystallization](#)

G. Reiter. J. Polym. Sci. Part B Polym. Phys. 41, 1869-1877 (2003)

[Dewetting near the Glass Transition: Transition from a Capillary Force Dominated to a Dissipation Dominated Regime](#)

Pascal Damman, Nancy Baudelet, Günter Reiter. Phys. Rev. Lett. 91, 216101 (2003)

[Self-Assembly of CoPt₃ Nanoparticle Rings Based on Phase-Separated Hexadecylamine Droplet Structure](#)

Leonid V. Govor, Gottfried H. Bauer, Günter Reiter, Elena Shevchenko, Horst Weller, Jürgen Parisi. Langmuir 19, 9573-9576 (2003)

[Summary and conclusions: Progress in our understanding of instabilities in thin films](#)

G. Reiter. Eur. Phys. J. E, 12, 465-468 (2003)

2002

[Are changes in morphology clear indicators for the glass transition in thin polymer films? Tentative ideas](#)

Günter Reiter. Eur. Phys. J. E 8, 251-255 (2002)

[Some relevant parameters affecting the glass transition of supported ultra-thin polymer films](#)

Y. Grohens, L. Hamon, G. Reiter, A. Soldera, Y. Holl. Eur. Phys. J. E 8, 217-224 (2002)

[Morphological Phase Transitions in Spontaneous Dewetting of Thin Films on Homogeneous and Heterogeneous Surfaces](#)

A. Sharma, G. Reiter. Phase Transitions 75, 377-399 (2002)

2001

[Friction induced by grafted polymeric chains](#)

A. Casoli, M. Brendlé, J. Schultz, P. Auroy, G. Reiter. Langmuir 17, 388 (2001)

[Liquidlike morphological transformations in mono-lamellar polymer crystals](#)

G. Reiter, G. Castelein, J.-U. Sommer. Phys. Rev. Lett. 86, 5918 (2001)

[Auto-optimization of dewetting rates by rim instabilities in slipping polymer films](#)

G. Reiter, A. Sharma. Phys. Rev. Lett. 87, 166103 (2001)

[Spincast, thin, glassy polymer films: highly metastable forms of matter](#)

G. Reiter, P. G. de Gennes. Eur. Phys. J. E 6, 25-28 (2001)

[Dewetting of highly elastic thin polymer films](#)

Günter Reiter. Phys. Rev. Lett. 87, 186101 (2001)

[Morphogenesis of lamellar polymer crystals](#)

J.-U. Sommer, G. Reiter. Europhys. Lett. 56, 755 (2001)

[Direct visualization of random crystallization and melting in arrays of nanometer-sized polymer crystals](#)

G. Reiter, G. Castelein, J.-U. Sommer, A. Röttele, T. Thurn-Albrecht. Phys. Rev. Lett. 87, 226101 (2001)

2000

[Polymer Crystallization in Quasi-2 Dimensions: I. Experimental Results](#)

G. Reiter, J.-U. Sommer. J. Chem. Phys. 112, 4376-4383 (2000)

[Polymer Crystallization in Quasi-2 Dimensions: II. Kinetic Models and Computer Simulations](#)

J.-U. Sommer, G. Reiter. J. Chem. Phys. 112, 4384-4393 (2000)

[Morphologies of Diblock Copolymer Thin Films Before and After Crystallization](#)

G. Reiter, G. Castelein, P. Hoerner, G. Riess, J.-U. Sommer, G. Floudas. Eur. Phys. J. E. 2, 319-334 (2000)

[Kinetics of Autophobic Dewetting of Polymer Films](#)

G. Reiter, R. Khanna. Langmuir 16, 6351-6357 (2000)

[Real time determination of the slippage length in autophobic polymer dewetting](#)

G. Reiter, R. Khanna. Phys. Rev. Lett. 85, 2753-2756 (2000)

[Friction of an Elastomer Sliding on Polymeric Model Surfaces](#)

A. Casoli, M. Brendlé, J. Schultz, P. Auroy, G. Reiter. Tribology Lett. 8, 249-253 (2000)

[Enhanced Instability in Thin Liquid Films by Improved Compatibility](#)

G. Reiter, R. Khanna, A. Sharma. Phys. Rev. Lett. 85, 1432-1435 (2000)

[The ABC of Pattern Evolution in Self-destruction of Thin Polymer Films](#)

R. Khanna, A. Sharma, G. Reiter. EPJdirect E 2, 1-9 (2000)

[Negative excess interfacial entropy between free and end-grafted chemically identical polymers](#)

G. Reiter, R. Khanna. Phys. Rev. Lett. 85, 5599-5602 (2000)

1999

[Thin Film Instability Induced by Long Range Forces](#)

G. Reiter, A. Sharma, A. Casoli, M.O. David, R. Khanna, P. Auroy. Langmuir 15, 2551-2558 (1999)

[Destabilising Effect of Long Range Forces in Thin Liquid Films on Wettable Substrates](#)

G. Reiter, A. Sharma, A. Casoli, M.-O. David, R. Khanna, P. Auroy. Europhys. Lett. 46, 512 (1999)

[The Strength of Long-Range Forces Across Thin Liquid Films](#)

G. Reiter, A. Sharma, R. Khanna, A. Casoli, M.O. David. J. Coll. Interf. Sci. 214, 126 (1999)

[A Thin Film Analog of the Corneal Mucus Layer of the Tear Film: An Enigmatic Long Range Non-Classical DLVO Interaction in the Breakup of Thin Polymer Films](#)

A. Sharma, R. Khanna, G. Reiter. Colloids & Surfaces B 14, 223-235 (1999)

[Nanometer-scale Surface Patterns with Long Range Order Created by Crystallisation of Diblock Copolymers](#)

G. Reiter, G. Castelein, P. Hoerner, G. Riess, A. Blumen, J.-U. Sommer. Phys. Rev. Lett. 83, 3844-3847 (1999)

[Morphological Pathways of Pattern Evolution and Dewetting in Thin Liquid Films](#)

A. Sharma, R. Khanna, R. Konnur, G. Reiter. K.L. Mittal, ed., VSP Publishers, Utrecht (1999)

1998

[Deformation of a Glassy Polymer Film by Long-Range Intermolecular Forces](#)

M.O. David, G. Reiter, T. Sitthai, J. Schultz. Langmuir 14, 5667-5672 (1998)

[Crystallisation of Adsorbed Polymer Monolayers](#)

G. Reiter, J.-U. Sommer. Phys. Rev. Lett. 80, 3771 (1998)

[Structure and dynamics of structure formation in model triarm star block copolymers of polystyrene, poly\(ethylene oxide\), and poly\(epsilon-caprolactone\)](#)

G. Floudas, G. Reiter, O. Lambert, P. Dumas. Macromolecules 31, 7279-7290 (1998)

[The artistic side of intermolecular forces](#)

G. Reiter. Science 282, 888-889 (1998)

[Role of Intermolecular Interactions in Pattern Formation in Unstable Thin Films](#)

A. Sharma, G. Reiter. Metals Materials and Processes 10, 287-302 (1998)

[Self-assembly of Crystallisable Diblock Copolymers](#)

G. Reiter, P. Hoerner, G. Hurtrez, G. Riess, J.-U. Sommer, J.-F. Joanny. *J. Surf. Sci. Tech.* 14 , 93-103 (1998)

1996

[Observation of the early stages of crystallization in polyethylene by time-dependent SAXS: Transition from individual crystals to stacks of lamellae](#)

T. Albrecht, G. Strobl. *Macromolecules* 29, 783-785 (1996)

[Glass transition in ethylene-vinylacetate copolymers analyzed by combined dielectric and X-ray scattering experiments](#)

Bernd Holzer, Gert Strobl. *Acta Polymerica* 47, 40-47 (1996)

[Instability of Thin Polymer Films on Coated Substrates: Rupture, Dewetting and Drop Formation](#)

A. Sharma, G. Reiter. *J. Coll. Interf. Sci.* 178, 383 (1996)

[The Effect of Adhesion on the Rheological and Frictional Behavior of a Confined Lubricant Film](#)

G. Reiter. *J. Adhesion* 57, 55 (1996)

[Instabilities of Thin Polymer Films on Layers of Chemically Identical Grafted Molecules](#)

G. Reiter, P. Auroy, L. Auvray. *Macromolecules* 29, 2150 (1996)

[Improving Adhesion via Connector Polymers to Stabilize Non-wetting Liquid Films](#)

G. Reiter, J. Schultz, P. Auroy, L. Auvray. *Europhys. Lett.* 33, 29 (1996)

1995

[What Determines Static Friction and Controls the Transition to Sliding](#)

G. Reiter, A. L. Demirel, J. Peanasky, L. Cai, S. Granick. *Tribology Lett.* 1, 1 (1995)

1994

[Dewetting as a Probe of Polymer Mobility in Thin Films](#)

G. Reiter. *Macromolecules* 27, 3046 (1994)

[From Static to Kinetic Friction in Confined Liquid Films](#)

G. Reiter, A.L. Demirel, S. Granick. *Science* 263, 1741 (1994)

[Stick to Slip Transition and Adhesion of Lubricated Surfaces in Moving Contact](#)

G. Reiter, A.L. Demirel, J. Peanasky, L. Cai, S. Granick. *J. Chem. Phys.* 101, 2606 (1994)

[Self Diffusion of "Hairy Rod" Molecules in Langmuir-Blodgett-Kuhn Multilayers Probed with Neutron and X-ray Reflectometry](#)

A. Schmidt, K. Mathauer, G. Reiter, M.D. Foster, M. Stamm, G. Wegner, W. Knoll. *Langmuir* 10, 3820 (1994)

1993

[Short Time Dynamics of Polymer Diffusion](#)

G. Reiter, U. Steiner. *Progr. Colloid and Polymer Science* 91, 93 (1993)

[Investigation of the Interdiffusion between Poly\(methylmethacrylate\) Films by Marker Movement](#)

Y. Liu, G. Reiter, K. Kunz, M. Stamm. *Macromolecules* 26, 2134 (1993)

[Mobility of Polymers in Films Thinner Than Their Unperturbed Size](#)

G. Reiter. *Europhysics Letters* 23, 579 (1993)

[Unstable Thin Polymer Films: Rupture and Dewetting Processes](#)

G. Reiter. *Langmuir* 9, 1344 (1993)

[Adhesion Instabilities of Surfaces Undergoing Shear](#)

G. Reiter, J.S. Peanasky, L. Cai, A.L. Demirel, S. Granick. *ACS Polymer Preprint Fall 1993*

1992

[Dewetting of Thin Polymer Films](#)

G. Reiter. *Physical Review Letters* 68, 75 (1992)

[Formation of Silver Islands on Langmuir-Blodgett Films as Investigated by X-ray Reflectometry](#)

G. Reiter, C. Bubeck, M. Stamm. *Langmuir* 8, 1881 (1992)

[Application of ¹⁵N Nuclear Reaction Technique for Hydrogen Analysis in Polymer Thin Films](#)

D. Endisch, F. Rauch, A. Götzelmann, G. Reiter, M. Stamm. *Nuclear Instruments and Methods in Physics Research B62*, 513 (1992)

1991[X-ray and Neutron Reflectometry for the Investigation of Polymer Diffusion](#)

G. Reiter, S. Hüttenbach, M. Foster, M. Stamm. Fresenius J. Anal. Chem. 341, 284-288 (1991)

[Time Regimes in Polymer Interdiffusion Determined by Marker Movement](#)

G. Reiter, S. Hüttenbach, M. Foster, M. Stamm. Macromolecules 24, 1179 (1991)

[Measurements of Polymer Diffusion Over Small Distances: A Check of Reptation Arguments](#)

G. Reiter, U. Steiner. J. Phys. (France) II 1, 659-671 (1991)

[Initial Stages of Polymer Interdiffusion Studied by Neutron Reflectometry](#)

M. Stamm, S. Hüttenbach, G. Reiter, T. Springer. Europhys. Lett. 14, 451 (1991)

[The Interface between 2 Strongly Incompatible Polymers](#)

S. Hüttenbach, M. Stamm, G. Reiter, M. Foster. Langmuir 7, 2438 (1991)

[The Use of X-ray and Neutron Reflectometry for the Investigation of Polymeric Thin Films](#)

M. Stamm, G. Reiter, K. Kunz. Physica B 173, 35 (1991)

[TOREMA - A Neutron Reflectometer at Jülich](#)

M. Stamm, S. Hüttenbach, G. Reiter. Physica B 173, 11 (1991)

1990[Positron Lifetime Investigations on Linear Polyethylene Compared to Branched Polyethylene](#)

G. Reiter, P. Kindl. phys. stat. sol. (a) 118, 161-168 (1990)

[X-ray Reflectometer for Study of Polymer Thin Films and Interfaces](#)

M. Foster, M. Stamm, G. Reiter, S. Hüttenbach. Vacuum, 41, 1441-1444 (1990)

[Interfacial Mixing of Polymers as Investigated by X-ray and Neutron Reflectometry](#)

M. Stamm, G. Reiter, S. Hüttenbach, M. Foster. ACS Polymer preprints 31, 73 (1990)

1989[A Neutron Reflectometer for the Investigation of Solid and Liquid Interfaces](#)

M. Stamm, G. Reiter, S. Hüttenbach. Physica B 156, 564-566 (1989)

1987[Investigations on Low Temperature Transitions and Time Effects of Branched Polyethylene by the Positron Lifetime Technique](#)

P. Kindl, G. Reiter. phys. stat. sol. (a) 104, 707 (1987)

Tagungsberichte / proceedings**2008**[Tuning the surface/bulk properties by the control of the amphiphilic profile in gradient copolymer](#)

K. Karaky, C. Derail, G. Reiter, et al. Conference Information: 46th Microsymposium on Macromolecules - Nanostructured Polymers and Polymer Nanocomposites, Jul.08 - Aug.12, 2007 Prague, Czech Republic, Macromolecular Symposia 267, 31-40 (2008)

2007[Avantages de la réflectométrie des neutrons pour l'étude des polymères en couches minces](#)

Günter Reiter, Mark Geoghegan. Collection SFN 8, 103-113 (2007)

2006[Amorphous Thin Polymers Films: Consequences of Residual Stresses](#)

G. Reiter, M. Hamieh, S. Al Akhrass, S. Sclavons, S. Gabriele, P. Damman, T. Vilmin, E. Raphaël. Makromolekulares Kolloquium Freiburg, "Macromolecular Bioscience". 6 (2), F95 (2006)

2005[Deriving Molecular Parameters of Interfaces Between Chemically Identical Polymers from Macroscopically Observed Phenomena](#)

Günter Reiter. Macromol. Symp. 229, 81-92 (2005)

2004[Dewetting on Model Surfaces: Transition from a Capillary Force Dominated to a Dissipation Dominated Regime](#)Günter Reiter, Moustafa Hamieh, Nancy Baudelet, Séverine Sclavons, Pascal Damman.
<http://www.e-polymers.org> (2004)**2002**[Pattern formation and ordering in thin films of crystallisable block copolymers](#)Günter Reiter, Gilles Castelein, Jens-Uwe Sommer. *Macromol. Symp.* 183, 173–178 (2002)**2000**[Block crystallization in model triarm star block copolymers with two crystallizable blocks. A time-resolved SAXS-WAXS study](#)G. Floudas, G. Reiter, O. Lambert, P. Dumas, F.J. Yeh, B. Chu. In: *Scattering from Polymers: Characterization by X-rays, Neutrons, and Light*. ACS Symposium Series 739 (2000) 448-455[Etude par microscopie à force atomique de la cristallisation de polymères](#)

G. Reiter, G. Castelein, J.U. Sommer, L. Vidal. Actes du Forum des Microscopies à Sonde Locale, Marly le Roi, 7-9 mars 2000, p. 68-69

[Capillary rise in glass fabrics.](#)J.M. Senecot, M. Nardin, G. Reiter, J. Schultz, P. Christou, P. Henrat. *Le Vide: Science, Technique et Applications* 296, 440-445 (2000)**1998**[Détermination de forces intermoléculaires par microscopie optique: effet de connecteurs polymères](#)

A.Casoli, G.Reiter, M.Brendlé, J. Schultz. Ouvrage des actes "Imagerie des Polymères" (Colloque international francophone, Nancy, Février 1998, (Apollor)

1997[Connectors in Adhesion and Contact Angle Hysteresis](#)

G. Reiter, A. Casoli, A. Sharma, P. Auroy. Dans les actes de JADH'97: 9èmes Journées d'Etudes sur l'Adhesion, Sept. 1997 in St. Lary/F, Edition SFV, Paris 1997, p. 68-73

[Surfactants: Eigenschaften und Einsatz in der Beschichtungstechnik](#)G. Reiter. Kapitel 5 in: *Grundlagen und Verfahren der Beschichtungstechnik, Kurzlehrgang*, Erlangen 1997**1996**[The Solid-like State of a Confined Liquid Lubricant: Deformation and Time Effects](#)

G. Reiter, A. L. Demirel, J. Peanasky, L. Cai, S. Granick. Proceedings of the NATO Workshop on "The Physics of Sliding Friction" at Trieste/Italy, 1995,. Eds. B.N.J. Persson, E. Tosatti, NATO ASI Serie E, 311, 119-128 (1996)

1995[Autophobic Behavior of Polymers at Interfaces](#)G. Reiter, P. Auroy, L. Auvray. Proceedings of the Moriond 95 Workshop, in: *Moriond Condensed Matter Physics: "Short and Long Chains at Interfaces"*, eds. J. Daillant, P. Guenoun, C. Marques, P. Muller, J. Trân Thanh Vân, p. 57-66**1993**[Dynamics of Polymer Interdiffusion at Short Times](#)U. Steiner, G. Reiter. Proceedings of the Les Houches Conference 1991: *Dynamical Phenomena at Interfaces, Surfaces and Membranes*, D. Beysens, N. Boccara, G. Forgacs, eds., Nova Science Publishers, New York, p. 511-512 (1993)[Adhesion Instabilities of Surfaces Undergoing Shear](#)

G. Reiter, J.S. Peanasky, L. Cai, A.L. Demirel, S. Granick. ACS Polymer Preprint Fall 1993

1991[The Effect of Short and Long Range Interactions on the Break up and Dewetting of Thin Polymer Films](#)

G. Reiter. Proceedings of the MRS Fall meeting 1991, Boston, USA

1990[Interdiffusion of Polymer Thin Films as Determined by Scattering Techniques](#)

M. Stamm, D. Brautmeier, G. Reiter, M. Foster. Proceed. of the 48th ANTEC 1990 Dallas, USA on "Plastics in the Environment: Yesterday, Today and Tomorrow" 36, 825 (1990)

1989[Positron Lifetime Investigations on Polymethylmethacrylate](#)

P. Kindl, G. Reiter. In: Positron Annihilation, Ed. L. Dorikens-Vanpraet, M. Dorikens, and D. Segers, World Scientific, Singapore 1989 (p.806)

[Characterisation of Polymer Surfaces and Interfaces by Reflectivity and Interference Techniques](#)

M. Stamm, G. Reiter, M. Foster, H. Motschmann, S.Hüttenbach, C. Toprakcioglu. Sci. and Eng., ACS/PMSE 62, 843 (1990)

Leitartikel / editorials**2003**[Editorial on "Focus point": Unstable thin films](#)

A.M. Donald, J.F. Joanny, M. Moller, G. Reiter. Eur. Phys. J. E 12, 359-360 (2003)

2002[Editorial: Special issue on Properties of Thin Polymer Films](#)

Günter Reiter (Editor) and James Forrest (Guest Editor). Eur. Phys. J. E 8, 101 (2002)

2001[Mission accomplished??](#)

A.M. Donald, J.-F. Joanny, M. Möller and G. Reiter (Editors-in-Chief). Eur. Phys. J. E 4, 3 (2001)

[Call for papers Special issue on "Properties of thin polymer films"](#)

Günter Reiter (Editor) and James Forrest (Guest Editor) Eur. Phys. J. E 5, 389 (2001)

Buchbeiträge / book chapters**2019**[Snails as living 3D printers: free forms for the architecture of tomorrow](#)

Christoph Allgaier, Benjamin Felbrich, Frederik Wulle, Emna Khechine, James H. Nebelsick, Achim Menges, Günter Reiter, Renate Reiter, Armin Lechler, Alexander Verl, Karl-Heinz Wurst. In Knippers, J; Schmid, U.; Speck, T. (eds.) Biomimetics for Architecture, Birkhäuser, Basel 2019, pp 126-133. (ISBN: 978-3-0356-1791-7)

2017[Schnecken als lebende 3D-Drucker: freie Formen für die Architektur von morgen](#)

Christoph Allgaier, Benjamin Felbrich, Frederik Wulle, Emna Khechine, James H. Nebelsick, Achim Menges, Günter Reiter, Renate Reiter, Armin Lechler, Alexander Verl, Karl-Heinz Wurst. Baubionik – Biologie beflügelt Architektur, Publisher: Naturkundemuseum Stuttgart 2017

2015[History Dependent Temporal Changes of Properties of Thin Polymer Films](#)

Günter Reiter. In: Non-equilibrium Phenomena in Confined Soft Matter. Ed. Simone Napolitano. Springer 2015

[From holes to drops to toroids: Conditions for the transcription of surface patterns into three-dimensional morphologies via rim instabilities in the course of dewetting](#)

Samer Al Akhrass, Laurent Vonna and Günter Reiter. In: Polymer Surfaces in Motion: Unconventional Patterning Methods, Eds. Juan Rodriguez-Hernandez and Carlos Drummond. Springer 2015

2013

[Severe deformations of malignant bone and skin cells, as well as aged cells, on micropatterned surfaces](#)

Patricia M. Davidson, Tokuko Haraguchi, Takako Koujin, Thorsten Steinberg, Pascal Tomakidi, Yasushi Hiraoka, Karine Anselme, Günter Reiter. In "Biomaterials Surface Science" Eds. Andreas Taubert, Joao F. Mano, Jose Carlos Rodriguez-Cabello. Wiley-VCH Germany, ISBN 978-3527330317 (2013)

2012

[Probing Properties of Polymers in Thin Films via Dewetting.](#)

Günter Reiter. In: "Glass Transition, Dynamics and Heterogeneity of Polymer Thin Films", Ed. Toshiji Kanaya. Springer, ISBN 978-3-642-34338-4, Adv. Polym. Sci. 252, 29 (2013)

2011

[Spreading of Liquids on Substrates](#)

Günter Reiter. In Handbook of Adhesion Technology. Eds. Lucas Filipe Martins da Silva, Andreas Öchsner, Robert Adams. Springer 2011

2010

[Structuring the Surface of Crystallizable Polymers with an AFM Tip](#)

Cvetlin Vasilev, Günter Reiter, Khalil Jradi, Sophie Bistac, Marjorie Schmitt. In: "Scanning Probe Microscopy in Nanoscience and Nanotechnology" Part 3, Ed. Bharat Bhushan, "NanoScience and Technology" Series, Springer 2010, ISBN 978-3-642-03534-0

2008

[Visualizing properties of polymers at interfaces: Relations between molecular features and macroscopic behaviour](#)

Günter Reiter. In "Soft Matter: Scattering, Imaging and Manipulation", Volume IV: Imaging and Manipulation Techniques Eds.: R. Pecora, R. Borsali, Springer 2008, ISBN 978-1402044649

2007

[Morphologies of Polymer Crystals in Thin Films](#)

Günter Reiter, Ioan Botiz, Laetitia Graveleau, Nikolay Grozev, Krystyna Albrecht, Ahmed Mourran, Martin Möller. In "Progress in Understanding Polymer Crystallization". Eds. Günter Reiter and Gert Strobl, Lect. Notes Phys. 714, 179-200 (2007)

2003

[Crystallization of Polymers in Thin Films: Model experiments](#)

Günter Reiter, Gilles Castelein and Jens-Uwe Sommer. In Lecture Notes in Physics: "Polymer Crystallization: Observations, Concepts and Interpretations". Eds. Jens-Uwe Sommer and Günter Reiter, p.131-152, 2003

[A Generic Model for Growth and Morphogenesis of Polymer Crystals in Two Dimensions](#)

Jens-Uwe Sommer and Günter Reiter. In Lecture Notes in Physics: "Polymer Crystallization: Observations, Concepts and Interpretations". Eds. Jens-Uwe Sommer and Günter Reiter, p.153-176, 2003

[Outlook and open questions: A personal view](#)

Günter Reiter and Jens-Uwe Sommer. In Lecture Notes in Physics: "Polymer Crystallization: Observations, Concepts and Interpretations". Eds. Jens-Uwe Sommer and Günter Reiter, p.378-382, 2003

1999**Polymer Studies**

G. Reiter. Chapter 10 in Lecture Notes in Physics No. 58, X-Ray and Neutron Reflectivity: Principles and Applications, Eds. J. Daillant, A. Gibaud , 1999

1998**Adhesion Failure and Dewetting of Thin Liquid Films**

A. Sharma, R. Khanna and G. Reiter. Festschrift on Adhesion Science and Technology, p. 199-237, W.J. van Ooij and H.R. Anderson, eds., VSP Publishers, Utrecht (1998)

1997**La réflectivité des polymères**

G. Reiter. Chapitre VIII dans les actes de l'école française de réflectivité, à Marseille 1997, Eds. A. Gibaud, J. Daillant

Bücher / books**2007****Progress in Understanding Polymer Crystallization**

Editors: Günter Reiter and Gert Strobl. Lecture Notes in Physics 714 (2007), Springer Berlin/Heidelberg ISSN: 978-3-540-47305-3

2006**Ordered Polymeric Nanostructures at Surfaces**

Editors: G. Julius Vancso and Günter Reiter. Advances in Polymer Science 200 (2006), Springer Berlin/Heidelberg, ISBN: 3-540-31921-2, DOI: 10.1007/11605294, ISSN: 0065-3195 (Paper) 1436-5030 (Online)

2003**Polymer Crystallization: Observations, Concepts and Interpretations**

Editors: Jens-Uwe Sommer and Günter Reiter. Lecture Notes in Physics 606 (2003), Springer Berlin/Heidelberg, ISSN 1616-6361