

# Publications SFB/TRR 102

last changed 31.12.2023

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1. Monika Moeddel, Wolfhard Janke, and Michael Bachmann,  
Comparison of the Adsorption Transition for Grafted and Nongrafted Polymers  
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2. Holger Scheidt, Isabel Morgado, Sven Rothmund, Daniel Huster,  
Dynamics of Amyloid  $\beta$  Fibrils Revealed by Solid-state NMR  
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3. Viktoria Blavatska and Wolfhard Janke,  
Conformational Properties of Polymers Near a Fractal Surface, in: Computer Simulation  
Studies in Condensed-Matter Physics XXV, edited by D P Landau, H-B Schuttler, S Lewis  
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4. Viktoria Blavatska and Wolfhard Janke,  
Polymer adsorption on a fractal substrate: Numerical study  
[J. Chem. Phys.](#) **136**, 104907 (2012) [B04]
5. Georg Künze, Patrick Barré, Holger A. Scheidt, Lars Thomas, David Eliezer, Daniel Huster,  
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[Biochim. Biophys. Acta - Biomembranes](#) **1818**, 2302 (2012) [A06]
6. Handan Arkin and Wolfhard Janke,  
Structural behavior of a polymer chain inside an attractive sphere  
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7. Thomas Henze, Klaus Schröter and Thomas Thurn-Albrecht,  
Investigation of the different stable states of the cantilever oscillation in an atomic force  
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8. Isabel Morgado, Karin Wieligmann, Magdalena Bereza, Raik Roenicke, Katrin Meinhardt,  
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Solid-state NMR Reveals a Close Structural Relationship between Amyloid- $\beta$  Protofibrils and Oligomers  
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10. Detlef Reichert, Tatiana Zinkevich, Kay Saalwächter, Alexey Krushelnitsky,  
The relation of the X-ray B-factor to protein dynamics: insights from recent dynamic solid-state NMR data  
[J. Biomol. Struct Dyn. 30, 617 \(2012\)](#) [A08]
11. Handan Arkin and Wolfhard Janke,  
Ground-State Properties of a Polymer Chain in an Attractive Sphere  
[J. Chem. Phys. B 116, 10379 \(2012\)](#) [B04]
12. Parvin Zare, Maria Mahrova, Emilia Tojo, Anja Stojanovic, Wolfgang H Binder,  
Ethylene glycol-based ionic liquids via azide/alkyne click chemistry  
[J. Polym. Sci. A 51, 190 \(2012\)](#) [A03]
13. Ruth Bärenwald, Yohan Champouret, Kay Saalwächter, Kerstin Schäler,  
Determination of Chain Flip Rates in Poly (ethylene) Crystallites by Solid-State Low-Field  $^1\text{H}$  NMR for Two Different Sample Morphologies  
[J. Phys Chem. B 116, 13089 \(2012\)](#) [A01]
14. M Marenz, J Zierenberg, H Arkin, and W Janke,  
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15. Sebastian Schöbl, Johannes Zierenberg, and Wolfhard Janke,  
Influence of Lattice Disorder on the Structure of Persistent Polymer Chains  
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16. Haitham Barqawi, Elena Ostas, Bo Liu, Jean-François Carpentier, Wolfgang H. Binder,  
Multidimensional Characterization of  $\alpha,\omega$ -Telechelic Poly ( $\epsilon$ -caprolactone) s via Online Coupling of 2D Chromatographic Methods (LC/SEC) and ESI-TOF/MALDI-TOF-MS  
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17. R. Hassert, M. Pagel, Z. Ming, T. Häupl, B. Abel, K. Braun, M. Wiessler, and A. G. Beck-Sickinger,  
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[Bioconjugate Chem. 23, 2129 \(2012\)](#) [B01]
18. F. Kremer, E. U. Mapesa, M. Tress, M. Reiche,  
Molecular Dynamics of Polymers at Nanometric Length Scales: From Thin Layers to Isolated Coils

19. R. Ene, C. Krywka, S-G. Kang, P. Papadopoulos, M. Burghammer, E. Di Cola, M. Mueller, and F. Kremer,  
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24. Rongchun Zhang, Tingzi Yan, Bob-Dan Lechner, Klaus Schröter, Yin Liang, Baohui Li, Filipe Furtado, Pingchuan Sun, Kay Saalwächter,  
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25. M. Kovermann, F. X. Schmid, and J. Balbach,  
Molecular function of the prolyl cis/trans isomerase and metallochaperone SlyD  
[Biol. Chem. 394, 965 \(2013\)](#) [A08]
26. Elena Ostas, Tingzi Yan, Thomas Thurn-Albrecht, Wolfgang H. Binder,  
Crystallization of Supramolecular Pseudoblock Copolymers  
[Macromolecules 46, 4481 \(2013\)](#) [A03/A01]
27. Ricardo Kurz, Marcio Fernando Cobo, Eduardo Ribeiro de Azevedo, Michael Sommer, André Wicklein, Mukundan Thelakkat, Günter Hempel, and Kay Saalwächter,  
Avoiding Bias Effects in NMR Experiments for Heteronuclear Dipole-Dipole Coupling Determinations: Principles and Application to Organic Semiconductor Materials  
[ChemPhysChem 14, 3146 \(2013\)](#) [A08]

28. V A Ivanov, A S Rodionova, J A Martemyanova, M R Stukan, M Mueller, W Paul, and K Binder,  
Wall-Induced Orientational Order in Athermal Semidilute Solutions of Semiflexible Polymers: Monte Carlo Simulations of a Lattice Model  
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30. Mark P Taylor, Pyie Phyo Aung, and Wolfgang Paul,  
Partition Function Zeros and Phase Transitions for a Square-Well Polymer Chain  
[Phys. Rev. E \*\*88\*\*, 12604 \(2013\)](#) [A07]
31. Emmanuel Urandu Mapesa, Martin Tress, Gunnar Schulz, Heiko Huth, Christoph Schick, Manfred Reiche, and Friedrich Kremer,  
Segmental and Chain Dynamics in Nanometric Layers of Poly(Cis-1,4-Isoprene) as Studied by Broadband Dielectric Spectroscopy and Temperature-Modulated Calorimetry  
[Soft Matter \*\*9\*\*, 10592-10598 \(2013\)](#) [B08]
32. Stefan Hölzer, Matthias Menzel, Qamer Zia, Ulrich Sigmar Schubert, Mario Beiner, and Roland Weidisch ,  
Blends of ethylene-octene copolymers with different chain architectures - Morphology, thermal and mechanical behavior  
[Polymer \*\*54\*\*, 5207 \(2013\)](#) [A05/B09]
33. Christoph Allolio, Nora Salas-Illanes, Yogesh S Desmukh, Michael Ryan Hansen, and Daniel Sebastiani,  
H-Bonding Competition and Clustering in Aqueous LiI  
[J. Phys Chem. B \*\*117\*\*, 9939 \(2013\)](#) [A09]
34. Mark P Taylor, Wolfgang Paul, and Kurt Binder,  
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Solid-State NMR Approaches to Internal Dynamics of Proteins: From Picoseconds to Microseconds and Seconds  
[Accounts Chem. Res. \*\*46\*\*, 2028 \(2013\)](#) [A08]
36. Toufik Naolou, Annette Meister, Regina Schöps, Markus Pietzsch, and Jörg Kressler,  
Synthesis and Characterization of Graft Copolymers Able to Form Polymersomes and Worm-Like Aggregates  
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Reiche, and Friedrich Kremer,  
Glassy Dynamics in Condensed Isolated Polymer Chains  
[Science](#) **341**, 1371 (2013) [Bo8]

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39. Kerstin Schäler, Anja Achilles, Ruth Bärenwald, Christiane Hackel, and Kay Saalwächter ,  
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40. M. Braun, and F. Cichos,  
Optically Controlled Thermophoretic Trapping of Single Nano-Objects  
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42. Wycliffe K Kipnusu, Mahdy M Elmahdy, Martin Tress, Markus Fuchs, Emmanuel U Mapesa, Detlef-M Smilgies, Jianqi Zhang, Christine M Papadakis, and Friedrich Kremer,  
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The Influence of the DeltaK280 Mutation and N- or C-Terminal Extensions on the Structure, Dynamics, and Fibril Morphology of the Tau R2 Repeat  
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45. Viktoria Blavatska and Wolfhard Janke,  
Conformational Transitions in Random Heteropolymer Models  
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46. Toufik Naolou, Karsten Busse, Bob-Dan Lechner, and Jörg Kressler ,

The Behavior of Poly( $\epsilon$ -Caprolactone) and Poly(Ethylene Oxide)-B-Poly( $\epsilon$ -Caprolactone) Grafted to a Poly(Glycerol Adipate) Backbone at the Air/Water Interface  
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Adsorption and Pattern Recognition of Polymers at Complex Surfaces with Attractive Stripelike Motifs  
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[Polymer 55, 3782-3791 \(2014\)](#) [B09/A05/B05/A01]
  
52. S. Förster and W. Widdra ,  
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