

# Dieter Richter

## List of Publications by Year in descending order

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574  
papers

22,112  
citations

5586

77  
h-index

15035

118  
g-index

587  
all docs

587  
docs citations

587  
times ranked

9646  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Dynamic structure factors of polymer melts as observed by neutron spin echo: Direct comparison and reevaluation. <i>Journal of Chemical Physics</i> , 2023, 159, .   | 3.0 | 5         |
| 2  | A Comprehensive Expression for the Description of Single Chain Scattering Functions as Tool to Interpret Neutron Spin-Echo Data from Reptating Polymer Chains. <i>Neutron News</i> , 2023, 34, 10-12.  | 0.3 | 0         |
| 3  | Influence of molecular weight on the distribution of segmental relaxation in polymer grafted nanoparticles. <i>Physical Review Materials</i> , 2022, 6, .  | 2.7 | 9         |
| 4  | Quasielastic neutron scattering reveals the temperature dependent rotational dynamics of densely grafted oleic acid. <i>Journal of Chemical Physics</i> , 2022, 156, .   | 3.0 | 1         |
| 5  | Structure and Dynamics of Ribonuclease A during Thermal Unfolding: The Failure of the Zimm Model. <i>Journal of Physical Chemistry B</i> , 2021, 125, 780-788.   | 2.9 | 5         |
| 6  | Cooperative Chain Dynamics of Tracer Chains in Highly Entangled Polyethylene Melts. <i>Physical Review Letters</i> , 2021, 126, .  | 7.8 | 17        |
| 7  | Structure and dynamics of large ring polymers. <i>Journal of Rheology</i> , 2021, 65, 713-727.   | 2.9 | 14        |
| 8  | Nanosecond structural dynamics of intrinsically disordered $\hat{\text{I}}^2$ -casein micelles by neutron spectroscopy. <i>Biophysical Journal</i> , 2021, 120, 5408-5420.   | 0.4 | 2         |
| 9  | Structural and Dynamical Roles of Bound Polymer Chains in Rubber Reinforcement. <i>Macromolecules</i> , 2021, 54, 11032-11046.   | 5.2 | 27        |
| 10 | Non-Gaussian and Cooperative Dynamics of Entanglement Strands in Polymer Melts. <i>Macromolecules</i> , 2021, 54, 11384-11391.   | 5.2 | 16        |
| 11 | Reduced Internal Friction by Osmolyte Interaction in Intrinsically Disordered Myelin Basic Protein. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 292-296.  | 4.6 | 12        |
| 12 | Amphiphilic Comb Polymers as New Additives in Bicontinuous Microemulsions. <i>Nanomaterials</i> , 2020, 10, 2410.  | 4.2 | 4         |
| 13 | Self-Similar Dynamics of Large Polymer Rings: A Neutron Spin Echo Study. <i>Physical Review Letters</i> , 2020, 125, .   | 7.8 | 20        |
| 14 | Self-Similar Polymer Ring Conformations Based on Elementary Loops: A Direct Observation by SANS. <i>ACS Macro Letters</i> , 2020, 9, 507-511.  | 5.1 | 24        |
| 15 | Tube Dilution in Isofrictional Polymer Blends Based on Polyisoprene with Different Topologies: Combination of Dielectric and Rheological Spectroscopy, Pulsed-Field-Gradient NMR, and Neutron Spin Echo (NSE) Techniques. <i>Macromolecules</i> , 2020, 53, 5919-5936. | 5.2 | 10        |
| 16 | Direct Observation of Dynamic Tube Dilution in Entangled Polymer Blends: A Combination of Neutron Scattering and Dielectric Techniques. <i>Physical Review Letters</i> , 2019, 123, .  | 7.8 | 9         |
| 17 | Polymer dynamics under confinement. <i>Soft Matter</i> , 2019, 15, 7316-7349.  | 2.7 | 64        |
| 18 | Localised contacts lead to nanosecond hinge motions in dimeric bovine serum albumin. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18477-18485.   | 2.8 | 12        |

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|----|---|-----|-----------|
| 19 | J-NSE-Phoenix, a neutron spin-echo spectrometer with optimized superconducting precession coils at the MLZ in Garching. <i>Review of Scientific Instruments</i> , 2019, 90, .   | 1.6 | 33        |
| 20 | Structure and Dynamics of Intrinsically Disordered and Unfolded Proteins: Investigations using Small-Angle Scattering and Neutron Spin-Echo Spectroscopy. <i>Biophysical Journal</i> , 2019, 116, 490a-491a.  | 0.4 | 1         |
| 21 | Direct Assessment of Tube Dilution in Entangled Polymers. <i>Physical Review Letters</i> , 2019, 122, .   | 7.8 | 21        |
| 22 | Proton diffusion in the catalytic layer for high temperature polymer electrolyte fuel cells. <i>RSC Advances</i> , 2019, 9, 37768-37777.  | 4.5 | 6         |
| 23 | Neutron protein crystallography at the Heinz Maier-Leibnitz Zentrum (MLZ): new developments and recent application examples. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e134-e134.   | 0.1 | 0         |
| 24 | Relevance of Internal Friction and Structural Constraints for the Dynamics of Denatured Bovine Serum Albumin. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2469-2473.  | 4.6 | 31        |
| 25 | Small angle neutron scattering study on the morphology of imidazolium-based grafted anion-conducting fuel cell membranes. <i>Physica B: Condensed Matter</i> , 2018, 551, 203-207.  | 2.8 | 6         |
| 26 | The Role of the Functionality in the Branch Point Motion in Symmetric Star Polymers: A Combined Study by Simulations and Neutron Spin Echo Spectroscopy. <i>Macromolecules</i> , 2018, 51, 242-253.   | 5.2 | 14        |
| 27 | Reverse relationships of water uptake and alkaline durability with hydrophilicity of imidazolium-based grafted anion-exchange membranes. <i>Soft Matter</i> , 2018, 14, 9118-9131.  | 2.7 | 15        |
| 28 | Influence of PEGylation on Domain Dynamics of Phosphoglycerate Kinase: PEG Acts Like Entropic Spring for the Protein. <i>Bioconjugate Chemistry</i> , 2018, 29, 1950-1960.  | 3.9 | 15        |
| 29 | Fractal diffusion in high temperature polymer electrolyte fuel cell membranes. <i>Journal of Chemical Physics</i> , 2018, 148, .  | 3.0 | 8         |
| 30 | Chemically defined, ultrasoft PDMS elastomers with selectable elasticity for mechanobiology. <i>PLoS ONE</i> , 2018, 13, e0195180.  | 2.5 | 18        |
| 31 | Neutron protein crystallography at the Heinz Meier-Leibnitz Zentrum (MLZ): new developments and recent application examples. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e177-e177.   | 0.1 | 0         |
| 32 | Importance of Compact Random Walks for the Rheology of Transient Networks. <i>ACS Macro Letters</i> , 2017, 6, 73-77.   | 5.1 | 48        |
| 33 | Description of poly(ethylenepropylene) confined in nanopores by a modified Rouse model. <i>Journal of Chemical Physics</i> , 2017, 146, .   | 3.0 | 2         |
| 34 | Internal structure and phase transition behavior of stimuli-responsive microgels in PEG melts. <i>Soft Matter</i> , 2017, 13, 2738-2748.  | 2.7 | 8         |
| 35 | Microscopic Structure, Conformation, and Dynamics of Ring and Linear Poly(ethylene oxide) Melts from Detailed Atomistic Molecular Dynamics Simulations: Dependence on Chain Length and Direct Comparison with Experimental Data. <i>Macromolecules</i> , 2017, 50, 2565-2584. | 5.2 | 59        |
| 36 | A Small-Angle Neutron Scattering Study of a Soft Model Nanofiller in an Athermal Melt. <i>Macromolecules</i> , 2017, 50, 4733-4741.   | 5.2 | 7         |

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|----|---|-----|-----------|
| 37 | The microscopic origin of the rheology in supramolecular entangled polymer networks. <i>Journal of Rheology</i> , 2017, 61, 1211-1226.  | 2.9 | 40        |
| 38 | Melt dynamics of supramolecular comb polymers: Viscoelastic and dielectric response. <i>Journal of Rheology</i> , 2017, 61, 1185-1196.  | 2.9 | 16        |
| 39 | Imidazolium-based anion exchange membranes for alkaline anion fuel cells: (2) elucidation of the ionic structure and its impact on conducting properties. <i>Soft Matter</i> , 2017, 13, 8463-8473. | 2.7 | 15        |
| 40 | Polymer Chain Conformation and Dynamical Confinement in a Model One-Component Nanocomposite. <i>Physical Review Letters</i> , 2017, 119, .  | 7.8 | 28        |
| 41 | Direct Observation of Two Distinct Diffusive Modes for Polymer Rings in Linear Polymer Matrices by Pulsed Field Gradient (PFG) NMR. <i>Macromolecules</i> , 2017, 50, 9482-9493.                    | 5.2 | 24        |
| 42 | Monomeric Amyloid Beta Peptide in Hexafluoroisopropanol Detected by Small Angle Neutron Scattering. <i>PLoS ONE</i> , 2016, 11, e0150267.   | 2.5 | 32        |
| 43 | Molecular Exchange Kinetics of Micelles: Corona Chain Length Dependence. <i>ACS Macro Letters</i> , 2016, 5, 884-888.   | 5.1 | 37        |
| 44 | Fast antibody fragment motion: flexible linkers act as entropic spring. <i>Scientific Reports</i> , 2016, 6, .  | 3.7 | 30        |
| 45 | Branch Point Withdrawal in Elongational Startup Flow by Time-Resolved Small Angle Neutron Scattering. <i>Macromolecules</i> , 2016, 49, 4330-4339.  | 5.2 | 9         |
| 46 | Small angle neutron scattering data of polymer electrolyte membranes partially swollen in water. <i>Data in Brief</i> , 2016, 7, 599-603.   | 1.4 | 0         |
| 47 | Sacrificial bonds enhance toughness of dual polybutadiene networks. <i>Polymer</i> , 2016, 87, 123-128.   | 4.2 | 65        |
| 48 | Dynamic Structure Factor of Core-Shell Microgels: A Neutron Scattering and Mesoscale Hydrodynamic Simulation Study. <i>Macromolecules</i> , 2016, 49, 3608-3618.                                    | 5.2 | 23        |
| 49 | Influence of chain topology on polymer crystallization: poly(ethylene oxide) (PEO) rings vs. linear chains. <i>Soft Matter</i> , 2016, 12, 8124-8134.   | 2.7 | 69        |
| 50 | Mixtures of polymer architectures: Probing the structure and dynamics with neutron scattering. <i>Polymer</i> , 2016, 105, 378-392.   | 4.2 | 7         |
| 51 | Nanoscale Motion of Soft Nanoparticles in Unentangled and Entangled Polymer Matrices. <i>Physical Review Letters</i> , 2016, 117, .   | 7.8 | 34        |
| 52 | Hydrogen Bonding in a Reversible Comb Polymer Architecture: A Microscopic and Macroscopic Investigation. <i>Macromolecules</i> , 2016, 49, 5692-5703.   | 5.2 | 22        |
| 53 | The Initiation Mechanism of Butadiene Polymerization in Aliphatic Hydrocarbons: A Full Mechanistic Approach. <i>Macromolecules</i> , 2016, 49, 5397-5406.   | 5.2 | 3         |
| 54 | Structure and domain dynamics of human lactoferrin in solution and the influence of Fe(III)-ion ligand binding. <i>BMC Biophysics</i> , 2016, 9, .  | 0.0 | 18        |

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|----|--|-----|-----------|
| 55 | Molecular View on Supramolecular Chain and Association Dynamics. <i>Physical Review Letters</i> , 2016, 117, .   | 7.8 | 18        |
| 56 | Role of Dynamic Asymmetry on the Collective Dynamics of Comblike Polymers: Insights from Neutron Spin-Echo Experiments and Coarse-Grained Molecular Dynamics Simulations. <i>Macromolecules</i> , 2016, 49, 4989-5000. | 5.2 | 6         |
| 57 | Imidazolium-based anion exchange membranes for alkaline anion fuel cells: elucidation of the morphology and the interplay between the morphology and properties. <i>Soft Matter</i> , 2016, 12, 1567-1578.             | 2.7 | 29        |
| 58 | Protein Entrapment in Polymeric Mesh: Diffusion in Crowded Environment with Fast Process on Short Scales. <i>Macromolecules</i> , 2016, 49, 1941-1949.   | 5.2 | 20        |
| 59 | Electrostatic Effects on the Internal Dynamics of Redox-Sensitive Microgel Systems. <i>Macromolecules</i> , 2016, 49, 1911-1917.   | 5.2 | 13        |
| 60 | Elucidation of the morphology of the hydrocarbon multi-block copolymer electrolyte membranes for proton exchange fuel cells. <i>Polymer</i> , 2016, 86, 157-167.   | 4.2 | 13        |
| 61 | Neutron macromolecular crystallography at the FRM II - or: what can neutrons do for you. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s229-s229.                                      | 0.1 | 0         |
| 62 | Sensing Polymer Chain Dynamics through Ring Topology: A Neutron Spin Echo Study. <i>Physical Review Letters</i> , 2015, 115, .   | 7.8 | 57        |
| 63 | Validity of the Stokes-Einstein Relation in Soft Colloids up to the Glass Transition. <i>Physical Review Letters</i> , 2015, 115, .  | 7.8 | 35        |
| 64 | Polymer dynamics in nanoconfinement: Interfaces and interphases. <i>EPJ Web of Conferences</i> , 2015, 83, 02009.  | 0.3 | 17        |
| 65 | Neutron macromolecular crystallography at the FRM II - the neutron single-crystal diffractometer BIODIFF. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2015, 71, s497-s497.                     | 0.1 | 0         |
| 66 | Morphology of crystalline- $\alpha$ -amorphous olefin block copolymers in solution characterized by small-angle neutron scattering and microscopy. <i>Journal of Applied Crystallography</i> , 2015, 48, 1860-1869.    | 2.6 | 9         |
| 67 | Tuning the instrument resolution using chopper and time of flight at the small-angle neutron scattering diffractometer KWS-2. <i>Journal of Applied Crystallography</i> , 2015, 48, 1849-1859.                         | 2.6 | 25        |
| 68 | Interfaces modify the undulation spectrum of bicontinuous microemulsions. <i>EPJ Web of Conferences</i> , 2015, 83, 02006.   | 0.3 | 3         |
| 69 | Effect of Core Crystallization and Conformational Entropy on the Molecular Exchange Kinetics of Polymeric Micelles. <i>ACS Macro Letters</i> , 2015, 4, 651-655.   | 5.1 | 30        |
| 70 | Influence of the Solvent Quality on Ring Polymer Dimensions. <i>Macromolecules</i> , 2015, 48, 1598-1605.  | 5.2 | 49        |
| 71 | Association Behavior, Diffusion, and Viscosity of End-Functionalized Supramolecular Poly(ethylene) Tj ETQq1 1 0.784314 rgBT / Overlock   | 5.2 | 24        |
| 72 | Nanocomposites composed of HEUR polymer and magnetite iron oxide nanoparticles: Structure and magnetic response of the hydrogel and dried state. <i>Polymer</i> , 2015, 60, 176-185.                                   | 4.2 | 10        |

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|----|--|------|-----------|
| 73 | KWS-1 high-resolution small-angle neutron scattering instrument at JCNS: current state. Journal of Applied Crystallography, 2015, 48, 61-70.                                       | 2.6  | 123       |
| 74 | Dynamic phase diagram of soft nanocolloids. Nanoscale, 2015, 7, 13924-13934.   | 5.1  | 48        |
| 75 | How hydrophobically modified chitosans are stabilized by biocompatible lipid aggregates. Journal of Colloid and Interface Science, 2015, 452, 160-168.                             | 9.9  | 13        |
| 76 | Studying the concentration dependence of the aggregation number of a micellar model system by SANS. Soft Matter, 2015, 11, 4208-4217.  | 2.7  | 19        |
| 77 | Celebrating Soft Matter's 10th Anniversary: Topology matters: structure and dynamics of ring polymers. Soft Matter, 2015, 11, 8535-8549.   | 2.7  | 79        |
| 78 | Consequences of Increasing Packing Length on the Dynamics of Polymer Melts. Macromolecules, 2015, 48, 6638-6645.   | 5.2  | 24        |
| 79 | Long wavelength undulations dominate dynamics in large surfactant membrane patches. Nanoscale, 2015, 7, 2578-2586.   | 5.1  | 17        |
| 80 | Slow internal protein dynamics in solution. Journal of Physics Condensed Matter, 2014, 26, 503103.   | 2.2  | 31        |
| 81 | Grazing incidence neutron spin echo spectroscopy: instrumentation aspects and scientific opportunities. Journal of Physics: Conference Series, 2014, 528, 012025.                  | 0.4  | 7         |
| 82 | Polymer enrichment decelerates surfactant membranes near interfaces. Physical Review E, 2014, 89, .  | 2.1  | 15        |
| 83 | Molecular Scale Dynamics of Large Ring Polymers. Physical Review Letters, 2014, 113, .   | 7.8  | 77        |
| 84 | Internal Nanosecond Dynamics in the Intrinsically Disordered Myelin Basic Protein. Journal of the American Chemical Society, 2014, 136, 6987-6994.                                 | 15.7 | 90        |
| 85 | Compact structure and non-Gaussian dynamics of ring polymer melts. Soft Matter, 2014, 10, 3649-3655.   | 2.7  | 63        |
| 86 | Surfactant or block copolymer micelles? Structural properties of a series of well-defined <i>n</i> -alkyl-PEO micelles in water studied by SANS. Soft Matter, 2014, 10, 5212-5220. | 2.7  | 35        |
| 87 | Anchoring vs Bridging: New Findings on Polymer Additives in Bicontinuous Microemulsions. Langmuir, 2014, 30, 1500-1505.  | 3.8  | 12        |
| 88 | Structure and Dynamics of a Compact State of a Multidomain Protein, the Mercuric Ion Reductase. Biophysical Journal, 2014, 107, 393-400.   | 0.4  | 17        |
| 89 | Conosolvency Effects on the Structure and Dynamics of Microgels. Macromolecules, 2014, 47, 5982-5988.  | 5.2  | 43        |
| 90 | BioDiff - a neutron diffractometer for protein crystallography. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1215-C1215.                                 | 0.1  | 0         |

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|-----|---|-----|-----------|
| 91  | Asymmetric polymers in bicontinuous microemulsions and their accretion to the bending of the membrane. <i>Colloid and Polymer Science</i> , 2014, 293, 1253-1265.                                     | 2.1 | 7         |
| 92  | Experimental determination of bending rigidity and saddle splay modulus in bicontinuous microemulsions. <i>Soft Matter</i> , 2013, 9, 2308.   | 2.7 | 39        |
| 93  | Rheology and Anomalous Flow Properties of Poly(ethylene- <i>co</i> -propylene)-Silica Nanocomposites. <i>Macromolecules</i> , 2013, 46, 6263-6272.  | 5.2 | 44        |
| 94  | Polymers in 2-D confinement. <i>Soft Matter</i> , 2013, 9, 10484.   | 2.7 | 9         |
| 95  | Viscosity of Ring Polymer Melts. <i>ACS Macro Letters</i> , 2013, 2, 874-878.   | 5.1 | 146       |
| 96  | Anomalous chain diffusion in unentangled model polymer nanocomposites. <i>Soft Matter</i> , 2013, 9, 4336.  | 2.7 | 49        |
| 97  | Relating structure and flow of soft colloids. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2757-2772.  | 2.2 | 9         |
| 98  | End-to-End Vector Dynamics of Nonentangled Polymers in Lamellar Block Copolymer Melts: The Role of Junction Point Motion. <i>Macromolecules</i> , 2013, 46, 7477-7487.                                | 5.2 | 11        |
| 99  | Microscopic Dynamics of Polyethylene Glycol Chains Interacting with Silica Nanoparticles. <i>Physical Review Letters</i> , 2013, 110, .   | 7.8 | 95        |
| 100 | Direct Observation of Nonaffine Tube Deformation in Strained Polymer Networks. <i>Physical Review Letters</i> , 2013, 110, .  | 7.8 | 27        |
| 101 | Effect of Nanoconfinement on Polymer Dynamics: Surface Layers and Interphases. <i>Physical Review Letters</i> , 2013, 110, .  | 7.8 | 169       |
| 102 | Structure and Dynamics of Polymer Chains. , 2013, , 113-137.  |     | 0         |
| 103 | Microscopic Relaxation Processes in Branched-Linear Polymer Blends by Rheo-SANS. <i>Macromolecules</i> , 2013, 46, 9122-9133.   | 5.2 | 21        |
| 104 | Dynamics of Poly(butylene oxide) Well above the Glass Transition. A Fully Atomistic Molecular Dynamics Simulation Study. <i>Macromolecules</i> , 2013, 46, 1678-1685.                                 | 5.2 | 10        |
| 105 | Confinement Effects in Block Copolymer Modified Bicontinuous Microemulsions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5623-5632.   | 2.9 | 15        |
| 106 | Molecular Approach to Supramolecular Polymer Assembly by Small Angle Neutron Scattering. <i>Macromolecules</i> , 2013, 46, 9446-9454.   | 5.2 | 26        |
| 107 | Kinetic Pathway of the Cylinder-to-Sphere Transition in Block Copolymer Micelles Observed in Situ by Time-Resolved Neutron and Synchrotron Scattering. <i>ACS Macro Letters</i> , 2013, 2, 1082-1087. | 5.1 | 45        |
| 108 | Kinetics of Block Copolymer Micelles Studied by Small-Angle Scattering Methods. <i>Advances in Polymer Science</i> , 2013, , 51-158.  | 0.0 | 63        |

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|-----|---|-----|-----------|
| 109 | Collective Intermolecular Motions Dominate the Picosecond Dynamics of Short Polymer Chains. <i>Physical Review Letters</i> , 2013, 111, .   | 7.8 | 11        |
| 110 | Neutron Spin-Echo and TOF Reveals Protein Dynamics in Solution. <i>Journal of the Physical Society of Japan</i> , 2013, 82, SA016.  | 2.0 | 3         |
| 111 | First results from measurements at the new neutron diffractometer BioDiff. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013, 69, s328-s328.   | 0.2 | 0         |
| 112 | SPHERES, JÄ¼lich's high-flux neutron backscattering spectrometer at FRM II. <i>Review of Scientific Instruments</i> , 2012, 83, .   | 1.6 | 79        |
| 113 | Acceleration of membrane dynamics adjacent to a wall. <i>Physical Review E</i> , 2012, 85, .  | 2.1 | 37        |
| 114 | Structural characterization of semicrystalline polymer morphologies by imaging-SANS. <i>Journal of Physics: Conference Series</i> , 2012, 340, 012089.  | 0.4 | 0         |
| 115 | Equilibrium exchange kinetics in n-alkylâ€PEO polymeric micelles: single exponential relaxation and chain length dependence. <i>Soft Matter</i> , 2012, 8, 623-626.   | 2.7 | 76        |
| 116 | Quasielastic Neutron Scattering Study on the Dynamics of Poly(alkylene oxide)s. <i>Macromolecules</i> , 2012, 45, 4394-4405.  | 5.2 | 42        |
| 117 | Single Chain Dynamic Structure Factor of Poly(ethylene oxide) in Dynamically Asymmetric Blends with Poly(methyl methacrylate). <i>Neutron Scattering and Molecular Dynamics Simulations. Macromolecules</i> , 2012, 45, 536-542.                                  | 5.2 | 34        |
| 118 | Polymer dynamics in responsive microgels: influence of cononsolvency and microgel architecture. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2762.  | 2.8 | 51        |
| 119 | Short and Intermediate Range Order in Poly(alkylene oxide)s. A Neutron Diffraction and Molecular Dynamics Simulation Study. <i>Macromolecules</i> , 2012, 45, 7293-7303.  | 5.2 | 30        |
| 120 | Neutron Scattering and X-ray Investigation of the Structure and Dynamics of Poly(ethyl) Tj ETQq0 0 0 rgBT /Overlock,10 Tf 50,302 Td (n  | 5.2 | 22        |
| 121 | Scattering depth correction of evanescent waves in inelastic neutron scattering using a neutron prism. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 686, 71-74. | 1.3 | 10        |
| 122 | Composition and Long-Range Density Fluctuations in PEO/PMMA Polymer Blends: A Result of Asymmetric Component Mobility. <i>Macromolecules</i> , 2012, 45, 2035-2049.   | 5.2 | 25        |
| 123 | Neutron Scattering. , 2012, , 331-361.  |     | 0         |
| 124 | The spin-echo spectrometer at the Spallation Neutron Source (SNS). <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 696, 85-99.                                     | 1.3 | 88        |
| 125 | Advanced rheological characterization of soft colloidal model systems. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 464102.   | 2.2 | 12        |
| 126 | Structure and dynamics of balanced supercritical CO<sub>2</sub>-microemulsions. <i>Soft Matter</i> , 2012, 8, 797-807.  | 2.7 | 23        |

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|-----|--|-----|-----------|
| 127 | Tailored Polymer Additives for Wax (Paraffin) Crystal Control. , 2012, , .   |     | 2         |
| 128 | Functional Domain Motions in Proteins on the $\frac{1}{4}$ –100 ns Timescale: Comparison of Neutron Spin-Echo Spectroscopy of Phosphoglycerate Kinase with Molecular-Dynamics Simulation. Biophysical Journal, 2012, 102, 1108-1117. | 0.4 | 39        |
| 129 | Future Perspectives: Moving to Longer Length and Time Scales, from Polymers to Biological Macromolecules. Neutron Scattering Applications and Techniques, 2012, , 145-186.   | 0.0 | 1         |
| 130 | Microemulsions as model fluids for enhanced oil recovery: dynamics adjacent to planar hydrophilic walls. EPJ Web of Conferences, 2012, 33, 03005.  | 0.3 | 3         |
| 131 | Muons as Light Hydrogen Probes – Diffusion and Trapping. Materials Research Society Symposia Proceedings, 2011, 3, .   | 0.1 | 0         |
| 132 | Dynamics of Star-Branched Polymers in Solution. Materials Research Society Symposia Proceedings, 2011, 166, .  | 0.1 | 0         |
| 133 | Neutron Scattering Studies of Dynamics: A New Frontier in Materials Science. MRS Bulletin, 2011, 28, 913-917.  | 4.4 | 0         |
| 134 | New Frontiers in the Application of Neutron Scattering to Materials Science. MRS Bulletin, 2011, 28, 903-906.  | 4.4 | 1         |
| 135 | Soft fluctuating surfactant membranes in supercritical CO <sub>2</sub> -microemulsions. Physical Chemistry Chemical Physics, 2011, 13, 3022-3025.  | 2.8 | 21        |
| 136 | International Soft Matter Conference 2010. Soft Matter, 2011, 7, 1245.   | 2.7 | 0         |
| 137 | Structure and dynamics of polymer rings by neutron scattering: breakdown of the Rouse model. Soft Matter, 2011, 7, 11169.  | 2.7 | 70        |
| 138 | Exploring internal protein dynamics by neutron spin echo spectroscopy. Soft Matter, 2011, 7, 1299-1307.  | 2.7 | 41        |
| 139 | Structural and thermodynamic aspects of the cylinder-to-sphere transition in amphiphilic diblock copolymer micelles. Soft Matter, 2011, 7, 1491.   | 2.7 | 38        |
| 140 | Chain Conformation of Poly(alkylene oxide)s Studied by Small-Angle Neutron Scattering. Macromolecules, 2011, 44, 6077-6084.  | 5.2 | 27        |
| 141 | Dynamics of Entangled Chains in Polymer Nanocomposites. Macromolecules, 2011, 44, 5857-5860.   | 5.2 | 136       |
| 142 | Chain Dynamics of Unentangled Poly(ethylene- <i>i&gt;alt</i> -propylene) Melts by Means of Neutron Scattering and Fully Atomistic Molecular Dynamics Simulations. Macromolecules, 2011, 44, 3129-3139.                               | 5.2 | 16        |
| 143 | Equilibrium Chain Exchange Kinetics of Diblock Copolymer Micelles: Effect of Morphology. Macromolecules, 2011, 44, 6145-6154.  | 5.2 | 64        |
| 144 | Ultrasoft Colloid-Polymer Mixtures: Structure and Phase Diagram. Physical Review Letters, 2011, 106, .   | 7.8 | 44        |

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|-----|--|-----|-----------|
| 145 | Domain Fluctuations Enable Catalytic Activity in Phosphoglycerate Kinase?. <i>Biophysical Journal</i> , 2011, 100, 171a.   | 0.4 | 1         |
| 146 | Viscosity Decrease and Reinforcement in Polymer-Silsesquioxane Composites. <i>Macromolecules</i> , 2011, 44, 7820-7830.  | 5.2 | 119       |
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