Dieter Richter

List of Publications by Year
in descending order

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650 papers	24,386 citations	7672 79 h-index	20625 120 g-index
661 all docs	661 docs citations	661 times ranked	11594 citing authors

#	Article	IF	Citations
1	Influence of molecular weight on the distribution of segmental relaxation in polymer grafted nanoparticles. Physical Review Materials, 2022, 6, .	0.9	8
2	Quasielastic neutron scattering reveals the temperature dependent rotational dynamics of densely grafted oleic acid.. Journal of Chemical Physics, 2022, 156, 164908.	1.2	0
3	Structure and Dynamics of Ribonuclease A during Thermal Unfolding: The Failure of the Zimm Model. Journal of Physical Chemistry B, 2021, 125, 780-788.	1.2	3
4	Cooperative Chain Dynamics of Tracer Chains in Highly Entangled Polyethylene Melts. Physical Review Letters, 2021, 126, 187801.	2.9	14
5	Structure and dynamics of large ring polymers. Journal of Rheology, 2021, 65, 713-727.	1.3	7
6	Nanosecond structural dynamics of intrinsically disordered Î²-casein micelles by neutron spectroscopy. Biophysical Journal, 2021, 120, 5408-5420.	0.2	2
7	Structural and Dynamical Roles of Bound Polymer Chains in Rubber Reinforcement. Macromolecules, 2021, 54, 11032-11046.	2.2	17
8	Non-Gaussian and Cooperative Dynamics of Entanglement Strands in Polymer Melts. Macromolecules, 2021, 54, 11384-11391.	2.2	10
9	Reduced Internal Friction by Osmolyte Interaction in Intrinsically Disordered Myelin Basic Protein. Journal of Physical Chemistry Letters, 2020, 11, 292-296.	2.1	10
10	Amphiphilic Comb Polymers as New Additives in Bicontinuous Microemulsions. Nanomaterials, 2020, 10, 2410.	1.9	4
11	Self-Similar Dynamics of Large Polymer Rings: A Neutron Spin Echo Study. Physical Review Letters, 2020, 125, 238004.	2.9	16
12	Self-Similar Polymer Ring Conformations Based on Elementary Loops: A Direct Observation by SANS. ACS Macro Letters, 2020, 9, 507-511.	2.3	20
13	Tube Dilation 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. Macromolecules, 2020, 53, 5919-5936.	2.2	8
14	A practical method to account for random phase approximation effects on the dynamic scattering of multi-component polymer systems. Journal of Chemical Physics, 2020, 152, 054901.	1.2	6
15	Direct Observation of Dynamic Tube Dilation in Entangled Polymer Blends: A Combination of Neutron Scattering and Dielectric Techniques. Physical Review Letters, 2019, 123, 187802.	2.9	8
16	Polymer dynamics under confinement. Soft Matter, 2019, 15, 7316-7349.	1.2	54
17	Localised contacts lead to nanosecond hinge motions in dimeric bovine serum albumin. Physical Chemistry Chemical Physics, 2019, 21, 18477-18485.	1.3	9
18	A better view through new glasses: Developments at the JÃ¼lich neutron spin echo spectrometers. Physica B: Condensed Matter, 2019, 562, 9-12.	1.3	4

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19	J-NSE-Phoenix, a neutron spin-echo spectrometer with optimized superconducting precession coils at the MLZ in Garching. Review of Scientific Instruments, 2019, 90, 043107.	0.6	34
20	Structure and Dynamics of Intrinsically Disordered and Unfolded Proteins: Investigations using Small-Angle Scattering and Neutron Spin-Echo Spectroscopy. Biophysical Journal, 2019, 116, 490a-491a.	0.2	0
21	Direct Assessment of Tube Dilation in Entangled Polymers. Physical Review Letters, 2019, 122, 088001.	2.9	21
22	Proton diffusion in the catalytic layer for high temperature polymer electrolyte fuel cells. RSC Advances, 2019, 9, 37768-37777.	1.7	6
23	Neutron protein crystallography at the Heinz Maier-Leibnitz Zentrum (MLZ): new developments and recent application examples. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e134-e134.	0.0	0
24	Relevance of Internal Friction and Structural Constraints for the Dynamics of Denatured Bovine Serum Albumin. Journal of Physical Chemistry Letters, 2018, 9, 2469-2473.	2.1	29
25	Small angle neutron scattering study on the morphology of imidazolium-based grafted anion-conducting fuel cell membranes. Physica B: Condensed Matter, 2018, 551, 203-207.	1.3	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. Macromolecules, 2018, 51, 242-253.	2.2	14
27	Reverse relationships of water uptake and alkaline durability with hydrophilicity of imidazolium-based grafted anion-exchange membranes. Soft Matter, 2018, 14, 9118-9131.	1.2	12
28	Influence of PEGylation on Domain Dynamics of Phosphoglycerate Kinase: PEG Acts Like Entropic Spring for the Protein. Bioconjugate Chemistry, 2018, 29, 1950-1960.	1.8	16
29	Fractal diffusion in high temperature polymer electrolyte fuel cell membranes. Journal of Chemical Physics, 2018, 148, 204906.	1.2	8
30	Chemically defined, ultrasoft PDMS elastomers with selectable elasticity for mechanobiology. PLoS ONE, 2018, 13, e0195180.	1.1	17
31	Neutron protein crystallography at the Heinz Meier-Leibnitz Zentrum (MLZ): new developments and recent application examples. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, e177-e177.	0.0	0
32	Importance of Compact Random Walks for the Rheology of Transient Networks. ACS Macro Letters, 2017, 6, 73-77.	2.3	45
33	Description of poly(ethylenepropylene) confined in nanopores by a modified Rouse model. Journal of Chemical Physics, 2017, 146, 203309.	1.2	1
34	Internal structure and phase transition behavior of stimuli-responsive microgels in PEG melts. Soft Matter, 2017, 13, 2738-2748.	1.2	9
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. Macromolecules, 2017, 50, 2565-2584.	2.2	50
36	Polymer dynamics under cylindrical confinement featuring a locally repulsive surface: A quasielastic neutron scattering study. Journal of Chemical Physics, 2017, 146, 203306.	1.2	13

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37	A Small-Angle Neutron Scattering Study of a Soft Model Nanofiller in an Athermal Melt. Macromolecules, 2017, 50, 4733-4741.	2.2	7
38	Influence of morphology on physical properties of poly(2,5-benzimidazole) membranes. Journal of Membrane Science, 2017, 533, 342-350.	4.1	13
39	The microscopic origin of the rheology in supramolecular entangled polymer networks. Journal of Rheology, 2017, 61, 1211-1226.	1.3	36
40	Melt dynamics of supramolecular comb polymers: Viscoelastic and dielectric response. Journal of Rheology, 2017, 61, 1185-1196.	1.3	17
41	Imidazolium-based anion exchange membranes for alkaline anion fuel cells: (2) elucidation of the ionic structure and its impact on conducting properties. Soft Matter, 2017, 13, 8463-8473.	1.2	16
42	Polymer Chain Conformation and Dynamical Confinement in a Model One-Component Nanocomposite. Physical Review Letters, 2017, 119, 047801.	2.9	28
43	Direct Observation of Two Distinct Diffusive Modes for Polymer Rings in Linear Polymer Matrices by Pulsed Field Gradient (PFG) NMR. Macromolecules, 2017, 50, 9482-9493.	2.2	22
44	Monomeric Amyloid Beta Peptide in Hexafluoroisopropanol Detected by Small Angle Neutron Scattering. PLoS ONE, 2016, 11, e0150267.	1.1	31
45	Molecular Exchange Kinetics of Micelles: Corona Chain Length Dependence. ACS Macro Letters, 2016, 5, 884-888.	2.3	34
46	Fast antibody fragment motion: flexible linkers act as entropic spring. Scientific Reports, 2016, 6, 22148.	1.6	30
47	Branch Point Withdrawal in Elongational Startup Flow by Time-Resolved Small Angle Neutron Scattering. Macromolecules, 2016, 49, 4330-4339.	2.2	9
48	Small angle neutron scattering data of polymer electrolyte membranes partially swollen in water. Data in Brief, 2016, 7, 599-603.	0.5	0
49	Sacrificial bonds enhance toughness of dual polybutadiene networks. Polymer, 2016, 87, 123-128.	1.8	63
50	Dynamic Structure Factor of Coreâ€“Shell Microgels: A Neutron Scattering and Mesoscale Hydrodynamic Simulation Study. Macromolecules, 2016, 49, 3608-3618.	2.2	23
51	Influence of chain topology on polymer crystallization: poly(ethylene oxide) (PEO) rings vs. linear chains. Soft Matter, 2016, 12, 8124-8134.	1.2	63
52	Mixtures of polymer architectures: Probing the structure and dynamics with neutron scattering. Polymer, 2016, 105, 378-392.	1.8	7
53	Nanoscale Motion of Soft Nanoparticles in Unentangled and Entangled Polymer Matrices. Physical Review Letters, 2016, 117, 147803.	2.9	32
54	Hydrogen Bonding in a Reversible Comb Polymer Architecture: A Microscopic and Macroscopic Investigation. Macromolecules, 2016, 49, 5692-5703.	2.2	21

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55	The Initiation Mechanism of Butadiene Polymerization in Aliphatic Hydrocarbons: A Full Mechanistic Approach. Macromolecules, 2016, 49, 5397-5406.	2.2	3
56	Structure and domain dynamics of human lactoferrin in solution and the influence of Fe(III)-ion ligand binding. BMC Biophysics, 2016, 9, 7.	4.4	19
57	Molecular View on Supramolecular Chain and Association Dynamics. Physical Review Letters, 2016, 117, 147802.	2.9	19
58	Role of Dynamic Asymmetry on the Collective Dynamics of Comblike Polymers: Insights from Neutron Spin-Echo Experiments and Coarse-Grained Molecular Dynamics Simulations. Macromolecules, 2016, 49, 4989-5000.	2.2	6
59	Imidazolium-based anion exchange membranes for alkaline anion fuel cells: elucidation of the morphology and the interplay between the morphology and properties. Soft Matter, 2016, 12, 1567-1578.	1.2	26
60	Protein Entrapment in Polymeric Mesh: Diffusion in Crowded Environment with Fast Process on Short Scales. Macromolecules, 2016, 49, 1941-1949.	2.2	20
61	Electrostatic Effects on the Internal Dynamics of Redox-Sensitive Microgel Systems. Macromolecules, 2016, 49, 1911-1917.	2.2	13
62	Elucidation of the morphology of the hydrocarbon multi-block copolymer electrolyte membranes for proton exchange fuel cells. Polymer, 2016, 86, 157-167.	1.8	13
63	Neutron macromolecular crystallography at the FRM II - or: what can neutrons do for you. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s229-s229.	0.0	0
64	Sensing Polymer Chain Dynamics through Ring Topology: A Neutron Spin Echo Study. Physical Review Letters, 2015, 115, 148302.	2.9	53
65	Validity of the Stokes-Einstein Relation in Soft Colloids up to the Glass Transition. Physical Review Letters, 2015, 115, 128302.	2.9	35
66	Fast internal dynamics in alcohol dehydrogenase. Journal of Chemical Physics, 2015, 143, 075101.	1.2	28
67	Polymer dynamics in nanoconfinement: Interfaces and interphases. EPJ Web of Conferences, 2015, 83, 02009.	0.1	16
68	Neutron macromolecular crystallography at the FRM II - the neutron single-crystal diffractometer BIODIFF. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s497-s497.	0.0	0
69	Morphology of crystallineâ€“amorphous olefin block copolymers in solution characterized by small-angle neutron scattering and microscopy. Journal of Applied Crystallography, 2015, 48, 1860-1869.	1.9	7
70	Tuning the instrument resolution using chopper and time of flight at the small-angle neutron scattering diffractometer KWS-2. Journal of Applied Crystallography, 2015, 48, 1849-1859.	1.9	24
71	Interfaces modify the undulation spectrum of bicontinuous microemulsions. EPJ Web of Conferences, 2015, 83, 02006.	0.1	1
72	Effect of Core Crystallization and Conformational Entropy on the Molecular Exchange Kinetics of Polymeric Micelles. ACS Macro Letters, 2015, 4, 651-655.	2.3	31

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73	Influence of the Solvent Quality on Ring Polymer Dimensions. Macromolecules, 2015, 48, 1598-1605.	2.2	48
74	Association Behavior, Diffusion, and Viscosity of End-Functionalized Supramolecular Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	25
75	Nanocomposites composed of HEUR polymer and magnetite iron oxide nanoparticles: Structure and magnetic response of the hydrogel and dried state. Polymer, 2015, 60, 176-185.	1.8	10
76	KWS-1 high-resolution small-angle neutron scattering instrument at JCNS: current state. Journal of Applied Crystallography, 2015, 48, 61-70.	1.9	122
77	Dynamic phase diagram of soft nanocolloids. Nanoscale, 2015, 7, 13924-13934.	2.8	46
78	Asymmetric polymers in bicontinuous microemulsions and their accretion to the bending of the membrane. Colloid and Polymer Science, 2015, 293, 1253-1265.	1.0	7
79	How hydrophobically modified chitosans are stabilized by biocompatible lipid aggregates. Journal of Colloid and Interface Science, 2015, 452, 160-168.	5.0	13
80	Studying the concentration dependence of the aggregation number of a micellar model system by SANS. Soft Matter, 2015, 11, 4208-4217.	1.2	20
81	Celebrating Soft Matter's 10th Anniversary: Topology matters: structure and dynamics of ring polymers. Soft Matter, 2015, 11, 8535-8549.	1.2	70
82	Consequences of Increasing Packing Length on the Dynamics of Polymer Melts. Macromolecules, 2015, 48, 6638-6645.	2.2	23
83	Diffusion of Isobutane in Silicalite: A Neutron Spinâ€“Echo and Molecular Dynamics Simulation Study. Journal of Physical Chemistry C, 2015, 119, 26999-27006.	1.5	22
84	Long wavelength undulations dominate dynamics in large surfactant membrane patches. Nanoscale, 2015, 7, 2578-2586.	2.8	13
85	Slow internal protein dynamics in solution. Journal of Physics Condensed Matter, 2014, 26, 503103.	0.7	30
86	Grazing incidence neutron spin echo spectroscopy: instrumentation aspects and scientific opportunities. Journal of Physics: Conference Series, 2014, 528, 012025.	0.3	8
87	Polymer enrichment decelerates surfactant membranes near interfaces. Physical Review E, 2014, 89, 042303.	0.8	16
88	Molecular Scale Dynamics of Large Ring Polymers. Physical Review Letters, 2014, 113, 168302.	2.9	70
89	Observing proton motion on the nanoscale in polymeric electrolyte membranes with quasielastic neutron scattering. International Journal of Hydrogen Energy, 2014, 39, 21657-21662.	3.8	11
90	Internal Nanosecond Dynamics in the Intrinsically Disordered Myelin Basic Protein. Journal of the American Chemical Society, 2014, 136, 6987-6994.	6.6	87

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91	Compact structure and non-Gaussian dynamics of ring polymer melts. Soft Matter, 2014, 10, 3649-3655.	1.2	57
92	Bending elastic properties of a block copolymer-rich lamellar phase doped by a surfactant: a neutron spin-echo study. Soft Matter, 2014, 10, 6926-6930.	1.2	7
93	Surfactant or block copolymer micelles? Structural properties of a series of well-defined n-alkylâ€“PEO micelles in water studied by SANS. Soft Matter, 2014, 10, 5212-5220.	1.2	33
94	Anchoring vs Bridging: New Findings on Polymer Additives in Bicontinuous Microemulsions. Langmuir, 2014, 30, 1500-1505.	1.6	11
95	Structure and Dynamics of a Compact State of a Multidomain Protein, the Mercuric Ion Reductase. Biophysical Journal, 2014, 107, 393-400.	0.2	19
96	Cononsolvency Effects on the Structure and Dynamics of Microgels. Macromolecules, 2014, 47, 5982-5988.	2.2	40
97	BioDiff - a neutron diffractometer for protein crystallography. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1215-C1215.	0.0	0
98	Experimental determination of bending rigidity and saddle splay modulus in bicontinuous microemulsions. Soft Matter, 2013, 9, 2308.	1.2	39
99	Rheology and Anomalous Flow Properties of Poly(ethylene-alt-propylene)â€“Silica Nanocomposites. Macromolecules, 2013, 46, 6263-6272.	2.2	44
100	Polymers in 2-D confinement. Soft Matter, 2013, 9, 10484.	1.2	7
101	Viscosity of Ring Polymer Melts. ACS Macro Letters, 2013, 2, 874-878.	2.3	134
102	Anomalous chain diffusion in unentangled model polymer nanocomposites. Soft Matter, 2013, 9, 4336.	1.2	49
103	Relating structure and flow of soft colloids. European Physical Journal: Special Topics, 2013, 222, 2757-2772.	1.2	8
104	End-to-End Vector Dynamics of Nonentangled Polymers in Lamellar Block Copolymer Melts: The Role of Junction Point Motion. Macromolecules, 2013, 46, 7477-7487.	2.2	11
105	Microscopic Dynamics of Polyethylene Glycol Chains Interacting with Silica Nanoparticles. Physical Review Letters, 2013, 110, 178001.	2.9	91
106	Direct Observation of the Formation of Surfactant Micelles under Nonisothermal Conditions by Synchrotron SAXS. Journal of the American Chemical Society, 2013, 135, 7214-7222.	6.6	74
107	Direct Observation of Nonaffine Tube Deformation in Strained Polymer Networks. Physical Review Letters, 2013, 110, 196002.	2.9	27
108	Effect of Nanoconfinement on Polymer Dynamics: Surface Layers and Interphases. Physical Review Letters, 2013, 110, 108303.	2.9	154

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109	Microscopic Relaxation Processes in Branched-Linear Polymer Blends by Rheo-SANS. Macromolecules, 2013, 46, 9122-9133.	2.2	21
110	Dynamics of Poly(butylene oxide) Well above the Glass Transition. A Fully Atomistic Molecular Dynamics Simulation Study. Macromolecules, 2013, 46, 1678-1685.	2.2	10
111	Confinement Effects in Block Copolymer Modified Bicontinuous Microemulsions. Journal of Physical Chemistry B, 2013, 117, 5623-5632.	1.2	16
112	Molecular Approach to Supramolecular Polymer Assembly by Small Angle Neutron Scattering. Macromolecules, 2013, 46, 9446-9454.	2.2	27
113	Kinetic Pathway of the Cylinder-to-Sphere Transition in Block Copolymer Micelles Observed in Situ by Time-Resolved Neutron and Synchrotron Scattering. ACS Macro Letters, 2013, 2, 1082-1087.	2.3	44
114	Kinetics of Block Copolymer Micelles Studied by Small-Angle Scattering Methods. Advances in Polymer Science, 2013, , 51-158.	0.4	60
115	Publisherâ€™s Note: Effect of Nanoconfinement on Polymer Dynamics: Surface Layers and Interphases [Phys. Rev. Lett.110, 108303 (2013)]. Physical Review Letters, 2013, 110, .	2.9	16
116	Collective Intermolecular Motions Dominate the Picosecond Dynamics of Short Polymer Chains. Physical Review Letters, 2013, 111, 173003.	2.9	11
117	Neutron Spin-Echo and TOF Reveals Protein Dynamics in Solution. Journal of the Physical Society of Japan, 2013, 82, SA016.	0.7	3
118	First results from measurements at the new neutron diffractometer BioDiff. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s328-s328.	0.3	0
119	SPHERES, JÃ¼lich's high-flux neutron backscattering spectrometer at FRM II. Review of Scientific Instruments, 2012, 83, 075109.	0.6	76
120	Acceleration of membrane dynamics adjacent to a wall. Physical Review E, 2012, 85, 041408.	0.8	35
121	Structural characterization of semicrystalline polymer morphologies by imaging-SANS. Journal of Physics: Conference Series, 2012, 340, 012089.	0.3	0
122	Equilibrium exchange kinetics in n-alkylâ€“PEO polymeric micelles: single exponential relaxation and chain length dependence. Soft Matter, 2012, 8, 623-626.	1.2	76
123	Quasielastic Neutron Scattering Study on the Dynamics of Poly(alkylene oxide)s. Macromolecules, 2012, 45, 4394-4405.	2.2	40
124	Single Chain Dynamic Structure Factor of Poly(ethylene oxide) in Dynamically Asymmetric Blends with Poly(methyl methacrylate). Neutron Scattering and Molecular Dynamics Simulations. Macromolecules, 2012, 45, 536-542.	2.2	36
125	Polymer dynamics in responsive microgels: influence of cononsolvency and microgel architecture. Physical Chemistry Chemical Physics, 2012, 14, 2762.	1.3	53
126	Short and Intermediate Range Order in Poly(alkylene oxide)s. A Neutron Diffraction and Molecular Dynamics Simulation Study. Macromolecules, 2012, 45, 7293-7303.	2.2	29

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127	Neutron Scattering and X-ray Investigation of the Structure and Dynamics of Poly(ethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.2	21
128	Scattering depth correction of evanescent waves in inelastic neutron scattering using a neutron prism. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 686, 71-74.	0.7	10
129	Composition and Long-Range Density Fluctuations in PEO/PMMA Polymer Blends: A Result of Asymmetric Component Mobility. Macromolecules, 2012, 45, 2035-2049.	2.2	25
130	Neutron Scattering. , 2012, , 331-361.		1
131	The spin-echo spectrometer at the Spallation Neutron Source (SNS). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 696, 85-99.	0.7	85
132	Advanced rheological characterization of soft colloidal model systems. Journal of Physics Condensed Matter, 2012, 24, 464102.	0.7	10
133	Structure and dynamics of balanced supercritical CO₂-microemulsions. Soft Matter, 2012, 8, 797-807.	1.2	24
134	Tailored Polymer Additives for Wax (Paraffin) Crystal Control. , 2012, , .		2
135	Functional Domain Motions in Proteins on the â^¼1â€“100Âns Timescale: Comparison of Neutron Spin-Echo Spectroscopy of Phosphoglycerate Kinase with Molecular-Dynamics Simulation. Biophysical Journal, 2012, 102, 1108-1117.	0.2	42
136	Future Perspectives: Moving to Longer Length and Time Scales, from Polymers to Biological Macromolecules. Neutron Scattering Applications and Techniques, 2012, , 145-186.	0.2	1
137	Microemulsions as model fluids for enhanced oil recovery: dynamics adjacent to planar hydrophilic walls. EPJ Web of Conferences, 2012, 33, 03005.	0.1	3
138	Soft fluctuating surfactant membranes in supercritical CO₂-microemulsions. Physical Chemistry Chemical Physics, 2011, 13, 3022-3025.	1.3	20
139	International Soft Matter Conference 2010. Soft Matter, 2011, 7, 1245.	1.2	1
140	Structure and dynamics of polymer rings by neutron scattering: breakdown of the Rouse model. Soft Matter, 2011, 7, 11169.	1.2	66
141	Exploring internal protein dynamics by neutron spin echo spectroscopy. Soft Matter, 2011, 7, 1299-1307.	1.2	41
142	Structural and thermodynamic aspects of the cylinder-to-sphere transition in amphiphilic diblock copolymer micelles. Soft Matter, 2011, 7, 1491.	1.2	36
143	Chain Conformation of Poly(alkylene oxide)s Studied by Small-Angle Neutron Scattering. Macromolecules, 2011, 44, 6077-6084.	2.2	28
144	Dynamics of Entangled Chains in Polymer Nanocomposites. Macromolecules, 2011, 44, 5857-5860.	2.2	131

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145	Chain Dynamics of Unentangled Poly(ethylene-alt-propylene) Melts by Means of Neutron Scattering and Fully Atomistic Molecular Dynamics Simulations. Macromolecules, 2011, 44, 3129-3139.	2.2	16
146	Equilibrium Chain Exchange Kinetics of Diblock Copolymer Micelles: Effect of Morphology. Macromolecules, 2011, 44, 6145-6154.	2.2	62
147	Ultrasoft Colloid-Polymer Mixtures: Structure and Phase Diagram. Physical Review Letters, 2011, 106, 228301.	2.9	44
148	Domain Fluctuations Enable Catalytic Activity in Phosphoglycerate Kinase?. Biophysical Journal, 2011, 100, 171a.	0.2	1
149	Viscosity Decrease and Reinforcement in Polymerâ€“Silsesquioxane Composites. Macromolecules, 2011, 44, 7820-7830.	2.2	115
150	Unified Description of the Viscoelastic and Dielectric Global Chain Motion in Terms of the Tube Theory. Macromolecules, 2011, 44, 7430-7437.	2.2	25
151	Microscopic origin of the terminal relaxation time in polymer nanocomposites: an experimental precedent. Soft Matter, 2011, 7, 7988.	1.2	46
152	Microstructure and morphology of selfâ€assembling multiblock poly(ethyleneâ€1â€butene)â€n copolymers in solution studied by wideâ€Q smallâ€angle neutron scattering and microscopy. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 144-158.	2.4	6
153	Recent developments in polymer dynamics investigations of architecturally complex systems. European Polymer Journal, 2011, 47, 474-485.	2.6	14
154	Near-surface structure of a bicontinuous microemulsion with a transition region. Physical Review E, 2011, 83, 030401.	0.8	37
155	The new neutron single crystal diffractometer BioDiff for proteins at FRM II. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, C484-C484.	0.3	0
156	Observation of Protein Domain Motions by Neutron Spectroscopy. ChemPhysChem, 2010, 11, 1188-1194.	1.0	7
157	Dynamical Properties of Decorated Lamellar Microemulsions in the Brush Regime. Zeitschrift Fur Physikalische Chemie, 2010, 224, 243-251.	1.4	2
158	Synthesis of Polymer/Silica Hybrid Nanoparticles Using Anionic Polymerization Techniques. Macromolecules, 2010, 43, 856-867.	2.2	42
159	Large Domain Fluctuations on 50-ns Timescale Enable Catalytic Activity inÂPhosphoglycerate Kinase. Biophysical Journal, 2010, 99, 2309-2317.	0.2	62
160	Dynamics in Poly(n-alkyl methacrylates): A Neutron Scattering, Calorimetric, and Dielectric Study. Macromolecules, 2010, 43, 3107-3119.	2.2	53
161	Segmental and Normal Mode Relaxation of Poly(alkylene oxide)s Studied by Dielectric Spectroscopy and Rheology. Macromolecules, 2010, 43, 4968-4977.	2.2	43
162	Conformations of Silicaâ^'Poly(ethyleneâ^'propylene) Nanocomposites. Macromolecules, 2010, 43, 9837-9847.	2.2	95

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163	Polymer Dynamics in Nanochannels of Porous Silicon: A Neutron Spin Echo Study. Macromolecules, 2010, 43, 8162-8169.	2.2	32
164	Molecular Observation of Branch Point Motion in Star Polymer Melts. Macromolecules, 2010, 43, 518-524.	2.2	27
165	Chain Motion in Nonentangled Dynamically Asymmetric Polymer Blends: Comparison between Atomistic Simulations of PEO/PMMA and a Generic Beadâ^'Spring Model. Macromolecules, 2010, 43, 3036-3051.	2.2	44
166	Evidence of a Sticky Boundary Layer in Nanochannels: A Neutron Spin Echo Study of n-Hexatriacontane and Poly(ethylene oxide) Confined in Porous Silicon. Journal of Physical Chemistry Letters, 2010, 1, 3116-3121.	2.1	48
167	Free Volume of Interphases in Model Nanocomposites Studied by Positron Annihilation Lifetime Spectroscopy. Macromolecules, 2010, 43, 10505-10511.	2.2	51
168	Direct Observation of Confined Single Chain Dynamics by Neutron Scattering. Physical Review Letters, 2010, 104, 197801.	2.9	123
169	Polymer dynamics under soft confinement in a self-assembled system. Soft Matter, 2010, 6, 1559.	1.2	32
170	Design, Manufacturing and Performance of a Pair of Superconducting Solenoids for a Neutron Spin-Echo Spectrometer at the SNS. IEEE Transactions on Applied Superconductivity, 2009, 19, 1320-1323.	1.1	3
171	Protein in action gefilmt. Physik in Unserer Zeit, 2009, 40, 9-10.	0.0	1
172	Structural Properties of Weakly Segregated PSâ^'PB Block Copolymer Micelles inn-Alkanes: Solvent Entropy Effects. Macromolecules, 2009, 42, 2686-2695.	2.2	30
173	Polymerization of 1-Octene by a Pyridylamidohafnium Catalyst: A SEC, ¹H NMR and Small Angle Neutron Scattering Study. Macromolecules, 2009, 42, 1083-1090.	2.2	14
174	Neutron scattering study of the dynamics of a polymer melt under nanoscopic confinement. Journal of Chemical Physics, 2009, 131, 174901.	1.2	62
175	Study of the dynamics of poly(ethylene oxide) by combining molecular dynamic simulations and neutron scattering experiments. Journal of Chemical Physics, 2009, 130, 094908.	1.2	73
176	Structural Observation and Kinetic Pathway in the Formation of Polymeric Micelles. Physical Review Letters, 2009, 102, 188301.	2.9	84
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