

Dieter Richter

List of Publications by Year in descending order

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650
papers

24,386
citations

6613

79
h-index

18130

120
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661
all docs

661
docs citations

661
times ranked

10310
citing authors

#	ARTICLE	IF	CITATIONS
1	Connection between Polymer Molecular Weight, Density, Chain Dimensions, and Melt Viscoelastic Properties. <i>Macromolecules</i> , 1994, 27, 4639-4647.	4.8	1,768
2	Unexpected power-law stress relaxation of entangled ring polymers. <i>Nature Materials</i> , 2008, 7, 997-1002.	27.5	480
3	Star Polymers Viewed as Ultrasoft Colloidal Particles. <i>Physical Review Letters</i> , 1998, 80, 4450-4453.	7.8	465
4	The Microscopic Basis of the Glass Transition in Polymers from Neutron Scattering Studies. <i>Science</i> , 1995, 267, 1939-1945.	12.6	318
5	Merging of the $\hat{\Gamma}_1$ and $\hat{\Gamma}_2$ relaxations in polybutadiene: A neutron spin echo and dielectric study. <i>Physical Review E</i> , 1996, 54, 3853-3869.	2.1	257
6	Neutron-Spin-Echo Investigation on the Dynamics of Polybutadiene near the Glass Transition. <i>Physical Review Letters</i> , 1988, 61, 2465-2468.	7.8	249
7	Neutron scattering study of the picosecond dynamics of polybutadiene and polyisoprene. <i>Physical Review E</i> , 1995, 52, 781-795.	2.1	192
8	Temperature dependence of the nonergodicity parameter in polybutadiene in the neighborhood of the glass transition. <i>Physical Review Letters</i> , 1990, 64, 2921-2924.	7.8	189
9	Polymer Aggregates with Crystalline Cores: The System Polyethylene~Poly(ethylenepropylene). <i>Macromolecules</i> , 1997, 30, 1053-1068.	4.8	172
10	Phase transitions in crystals of chain molecules. Relation between defect structures and molecular motion in the four modifications of n-C33H68. <i>Faraday Discussions of the Chemical Society</i> , 1980, 69, 19.	2.2	164
11	Study of the glass transition order parameter in amorphous polybutadiene by incoherent neutron scattering. <i>European Physical Journal B</i> , 1988, 70, 73-79.	1.5	163
12	Dynamics of Glass-Forming Polymers: "Homogeneous" versus "Heterogeneous" Scenario. <i>Physical Review Letters</i> , 1998, 81, 590-593.	7.8	160
13	Chain Motion in an Unentangled Polyethylene Melt: A Critical Test of the Rouse Model by Molecular Dynamics Simulations and Neutron Spin Echo Spectroscopy. <i>Physical Review Letters</i> , 1998, 80, 2346-2349.	7.8	159
14	Equilibrium Chain Exchange Kinetics of Diblock Copolymer Micelles: Tuning and Logarithmic Relaxation. <i>Macromolecules</i> , 2006, 39, 4566-4575.	4.8	155
15	Star Polymers: Experiment, Theory, and Simulation. <i>Advances in Chemical Physics</i> , 2007, , 67-163.	0.3	154
16	Effect of Nanoconfinement on Polymer Dynamics: Surface Layers and Interphases. <i>Physical Review Letters</i> , 2013, 110, 108303.	7.8	154
17	Shape and size fluctuations of microemulsion droplets: The role of cosurfactant. <i>Physical Review Letters</i> , 1990, 65, 3348-3351.	7.8	150
18	Structural Investigation of Star Polymers in Solution by Small-Angle Neutron Scattering. <i>Macromolecules</i> , 1994, 27, 3821-3829.	4.8	150

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19	Amphiphilic Block Copolymers as Efficiency Boosters for Microemulsions. <i>Langmuir</i> , 1999, 15, 6707-6711.	3.5	149
20	Neutron Spin Echo in Polymer Systems. , 2005, , .		142
21	Local Dynamics of Lipid Bilayers Studied by Incoherent Quasi-Elastic Neutron Scattering. <i>Europhysics Letters</i> , 1989, 8, 201-206.	2.0	140
22	Architecturally Induced Multiresponsive Vesicles from Well-Defined Polypeptides. Formation of Gene Vehicles. <i>Biomacromolecules</i> , 2007, 8, 2173-2181.	5.4	140
23	Change of the vibrational dynamics near the glass transition in polyisobutylene: Inelastic neutron scattering on a nonfragile polymer. <i>Physical Review B</i> , 1993, 47, 14795-14804.	3.2	139
24	Effect of Blending on the PVME Dynamics. A Dielectric, NMR, and QENS Investigation. <i>Macromolecules</i> , 1999, 32, 4065-4078.	4.8	134
25	Viscosity of Ring Polymer Melts. <i>ACS Macro Letters</i> , 2013, 2, 874-878.	4.8	134
26	Dynamics of Entangled Chains in Polymer Nanocomposites. <i>Macromolecules</i> , 2011, 44, 5857-5860.	4.8	131
27	Study of Dynamics of Microemulsion Droplets by Neutron Spin-Echo Spectroscopy. <i>Physical Review Letters</i> , 1987, 59, 2600-2603.	7.8	130
28	Decoupling of time scales of motion in polybutadiene close to the glass transition. <i>Physical Review Letters</i> , 1992, 68, 71-74.	7.8	130
29	Clear Evidence of Reptation in Polyethylene from Neutron Spin-Echo Spectroscopy. <i>Physical Review Letters</i> , 1998, 81, 124-127.	7.8	130
30	Dynamics of star-burst dendrimers in solution in relation to their structural properties. <i>Journal of Chemical Physics</i> , 2002, 117, 4047-4062.	3.0	126
31	Direct Observation of Confined Single Chain Dynamics by Neutron Scattering. <i>Physical Review Letters</i> , 2010, 104, 197801.	7.8	123
32	Molecular dynamics of lipid bilayers studied by incoherent quasi-elastic neutron scattering. <i>Journal De Physique II</i> , 1992, 2, 1589-1615.	0.9	122
33	KWS-1 high-resolution small-angle neutron scattering instrument at JCNS: current state. <i>Journal of Applied Crystallography</i> , 2015, 48, 61-70.	4.5	122
34	Direct microscopic observation of the entanglement distance in a polymer melt. <i>Physical Review Letters</i> , 1990, 64, 1389-1392.	7.8	121
35	Muon diffusion and trapping in aluminum and dilute aluminum alloys: Experiments and comparison with small-polaron theory. <i>Physical Review B</i> , 1982, 26, 567-590.	3.2	119
36	Structural Changes near the Glass Transition – Neutron Diffraction on a Simple Polymer. <i>Europhysics Letters</i> , 1989, 9, 557-562.	2.0	117

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37	Viscosity Decrease and Reinforcement in Polymer-Silsesquioxane Composites. <i>Macromolecules</i> , 2011, 44, 7820-7830.	4.8	115
38	Synthesis and Characterization of Poly[1,4-isoprene-b-(ethylene oxide)] and Poly[ethylene-co-propylene-b-(ethylene oxide)] Block Copolymers. <i>Macromolecules</i> , 1997, 30, 1582-1586.	4.8	113
39	The Jülich neutron spin-echo spectrometer – Design and performance. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997, 399, 301-323.	1.6	113
40	Logarithmic Chain-Exchange Kinetics of Diblock Copolymer Micelles. <i>Physical Review Letters</i> , 2006, 96, 068302.	7.8	113
41	Molecular Motions in Polyisobutylene: A Neutron Spin-Echo and Dielectric Investigation. <i>Macromolecules</i> , 1998, 31, 1133-1143.	4.8	110
42	Prediction of Melt State Poly(1-olefin) Rheological Properties: The Unsuspected Role of the Average Molecular Weight per Backbone Bond. <i>Macromolecules</i> , 2002, 35, 10096-10101.	4.8	110
43	Interaction of Paraffin Wax Gels with Random Crystalline/Amorphous Hydrocarbon Copolymers. <i>Macromolecules</i> , 2002, 35, 7044-7053.	4.8	110
44	Effect of amphiphilic block copolymers on the structure and phase behavior of oil-water-surfactant mixtures. <i>Journal of Chemical Physics</i> , 2001, 115, 580-600.	3.0	108
45	Interaction of Paraffin Wax Gels with Ethylene/Vinyl Acetate Co-polymers. <i>Energy & Fuels</i> , 2005, 19, 138-144.	5.1	108
46	Direct determination of the anharmonic vibrational potential for H in Pd. <i>European Physical Journal B</i> , 1984, 55, 283-286.	1.5	107
47	Local hydrogen vibrations in Nb in the presence of interstitial (N,O) and substitutional (V) impurities. <i>Physical Review B</i> , 1983, 27, 927-934.	3.2	106
48	On the origins of entanglement constraints. <i>Macromolecules</i> , 1993, 26, 795-804.	4.8	105
49	Segmental Dynamics in Poly(vinylethylene)/Polyisoprene Miscible Blends Revisited. A Neutron Scattering and Broad-Band Dielectric Spectroscopy Investigation. <i>Macromolecules</i> , 1999, 32, 7572-7581.	4.8	104
50	Molecular Dynamics of a 1,4-Polybutadiene Melt. Comparison of Experiment and Simulation. <i>Macromolecules</i> , 1999, 32, 8857-8865.	4.8	104
51	Neutron Scattering Study of the Vibration-Relaxation Crossover in Amorphous Polycarbonates. <i>Physical Review Letters</i> , 1994, 73, 2344-2347.	7.8	99
52	Neutron Spin Echo Investigations on the Segmental Dynamics of Polymers in Melts, Networks and Solutions. , 1997, , 1-129.		97
53	Coupled protein domain motion in Taq polymerase revealed by neutron spin-echo spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17646-17651.	7.1	97
54	Aggregation Phenomena of Model PS/PI Super-H-Shaped Block Copolymers. Influence of the Architecture. <i>Macromolecules</i> , 1996, 29, 581-591.	4.8	95

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55	Time-resolved SANS for the determination of unimer exchange kinetics in block copolymer micelles. <i>Europhysics Letters</i> , 2001, 55, 667-673.	2.0	95
56	Conformations of Silica/Poly(ethylene/propylene) Nanocomposites. <i>Macromolecules</i> , 2010, 43, 9837-9847.	4.8	95
57	Molecular Observation of Contour-Length Fluctuations Limiting Topological Confinement in Polymer Melts. <i>Physical Review Letters</i> , 2002, 88, 058301.	7.8	93
58	Structural Investigation of Micelles Formed by an Amphiphilic PEP-PEO Block Copolymer in Water. <i>Macromolecules</i> , 1997, 30, 7462-7471.	4.8	92
59	Non-Gaussian Nature of the Relaxation of Glass-Forming Polyisoprene. <i>Physical Review Letters</i> , 2002, 89, 245701.	7.8	92
60	Dynamics of poly(ethylene oxide) in a blend with poly(methyl methacrylate): A quasielastic neutron scattering and molecular dynamics simulations study. <i>Physical Review E</i> , 2005, 72, 031808.	2.1	92
61	Microscopic Dynamics of Polyethylene Glycol Chains Interacting with Silica Nanoparticles. <i>Physical Review Letters</i> , 2013, 110, 178001.	7.8	91
62	On the non-Gaussianity of chain motion in unentangled polymer melts. <i>Journal of Chemical Physics</i> , 2001, 114, 4285-4288.	3.0	89
63	Rheological Properties of 1,4-Polyisoprene over a Large Molecular Weight Range. <i>Macromolecules</i> , 2004, 37, 8135-8144.	4.8	89
64	Entanglement constraints in polymer melts. A neutron spin echo study. <i>Macromolecules</i> , 1992, 25, 6156-6164.	4.8	88
65	Study of the Dynamic Structure Factor in the Relaxation Regime of Polybutadiene. <i>Physical Review Letters</i> , 1996, 76, 1872-1875.	7.8	88
66	Chain Dynamics and Viscoelastic Properties of Poly(ethylene oxide). <i>Macromolecules</i> , 2008, 41, 4866-4872.	4.8	88
67	Internal Nanosecond Dynamics in the Intrinsically Disordered Myelin Basic Protein. <i>Journal of the American Chemical Society</i> , 2014, 136, 6987-6994.	13.7	87
68	Quantum diffusion of positive muons in copper. <i>Physical Review B</i> , 1989, 39, 23-41.	3.2	86
69	Influence of Polymer Architecture on the Formation of Micelles of Miktoarm Star Copolymers Polyethylene/Poly(ethylenepropylene) in the Selective Solvent Decane. <i>Macromolecules</i> , 1997, 30, 7171-7182.	4.8	86
70	Dynamics of bicontinuous microemulsion phases with and without amphiphilic block-copolymers. <i>Journal of Chemical Physics</i> , 2001, 115, 9563-9577.	3.0	86
71	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.	1.6	85
72	Studies of $^{1/4}$ Localization in Cu, Al, and Al Alloys in the Temperature Interval 0.03-100 K. <i>Physical Review Letters</i> , 1980, 44, 337-340.	7.8	84

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73	Fundamentals and properties of some Ti/Mn based Laves phase hydrides. International Journal of Hydrogen Energy, 1989, 14, 187-200.	7.1	84
74	Neutron Spin Echo Study of Membrane Undulations in Lipid Multibilayers. Europhysics Letters, 1993, 23, 457-462.	2.0	84
75	Structural Observation and Kinetic Pathway in the Formation of Polymeric Micelles. Physical Review Letters, 2009, 102, 188301.	7.8	84
76	Rheological Investigation of Polybutadienes Having Different Microstructures over a Large Temperature Range. Macromolecules, 1995, 28, 8552-8562.	4.8	83
77	Membrane Decoration by Amphiphilic Block Copolymers in Bicontinuous Microemulsions. Physical Review Letters, 2000, 85, 102-105.	7.8	83
78	Hydration dependence of chain dynamics and local diffusion in L-alpha-dipalmitoylphosphatidylcholine multilayers studied by incoherent quasi-elastic neutron scattering. Biophysical Journal, 1995, 68, 1871-1880.	0.5	82
79	Experimental evidence by neutron scattering of a crossover from Gaussian to non-Gaussian behavior in the $\hat{\mu}$ relaxation of polyisoprene. Physical Review E, 2003, 67, 051802.	2.1	82
80	Diffusion of hydrogen in niobium in the presence of trapping impurities studied by neutron spectroscopy. Physical Review B, 1978, 18, 126-140.	3.2	81
81	Microscopic dynamics and topological constraints in polymer melts: A neutron-spin-echo study. Physical Review Letters, 1989, 62, 2140-2143.	7.8	81
82	A comparison of neutron scattering studies and computer simulations of polymer melts. Chemical Physics, 2000, 261, 61-74.	1.9	81
83	Intermediate length scale dynamics of polyisobutylene. Physical Review E, 2002, 65, 051803.	2.1	80
84	Synthesis and Characterization of Model Cyclic Block Copolymers of Styrene and Butadiene. Comparison of the Aggregation Phenomena in Selective Solvents with Linear Diblock and Triblock Analogues. Macromolecules, 2002, 35, 5426-5437.	4.8	80
85	Direct Observation of the Transition from Free to Constrained Single-Segment Motion in Entangled Polymer Melts. Physical Review Letters, 2003, 90, 058302.	7.8	80
86	Nonadiabatic Low-Temperature Quantum Diffusion of Hydrogen in Nb(OH) x. Europhysics Letters, 1988, 6, 535-540.	2.0	78
87	From Rouse dynamics to local relaxation: A neutron spin echo study on polyisobutylene melts. Journal of Chemical Physics, 1999, 111, 6107-6120.	3.0	78
88	Is the Fast Process at the Glass Transition Mainly due to Long Wavelength Excitations?. Physical Review Letters, 1996, 77, 4035-4038.	7.8	76
89	Micellization of amphiphilic diblock copolymers: Corona shape and mean-field to scaling crossover. Europhysics Letters, 2000, 51, 628-634.	2.0	76
90	SPHERES, JÄlich's high-flux neutron backscattering spectrometer at FRM II. Review of Scientific Instruments, 2012, 83, 075109.	1.3	76

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91	Equilibrium exchange kinetics in n-alkyl-PEO polymeric micelles: single exponential relaxation and chain length dependence. <i>Soft Matter</i> , 2012, 8, 623-626.	2.7	76
92	Dynamical Scaling in Polymer Solutions Investigated by the Neutron Spin-Echo Technique. <i>Physical Review Letters</i> , 1978, 41, 1484-1487.	7.8	75
93	Direct Observation of Correlated Interdomain Motion in Alcohol Dehydrogenase. <i>Physical Review Letters</i> , 2008, 101, 138102.	7.8	75
94	Direct Observation of the Formation of Surfactant Micelles under Nonisothermal Conditions by Synchrotron SAXS. <i>Journal of the American Chemical Society</i> , 2013, 135, 7214-7222.	13.7	74
95	Study of the dynamics of poly(ethylene oxide) by combining molecular dynamic simulations and neutron scattering experiments. <i>Journal of Chemical Physics</i> , 2009, 130, 094908.	3.0	73
96	Diffusion and trapping of muons in aluminum: New experiments and comparison with Kondo theory. <i>Physical Review B</i> , 1988, 37, 4425-4440.	3.2	70
97	Matrix Chain Deformation in Reinforced Networks: a SANS Approach. <i>Macromolecules</i> , 1999, 32, 5793-5802.	4.8	70
98	Molecular Scale Dynamics of Large Ring Polymers. <i>Physical Review Letters</i> , 2014, 113, 168302.	7.8	70
99	Celebrating <i>Soft Matter's</i> 10th Anniversary: Topology matters: structure and dynamics of ring polymers. <i>Soft Matter</i> , 2015, 11, 8535-8549.	2.7	70
100	Sphere to Rod Transition of Micelles Formed by Amphiphilic Diblock Copolymers of Vinyl Ethers in Aqueous Solution. <i>Macromolecules</i> , 1999, 32, 697-703.	4.8	69
101	Measuring bending rigidity and spatial renormalization in bicontinuous microemulsions. <i>Europhysics Letters</i> , 2001, 56, 683-689.	2.0	68
102	Screening of hydrodynamic interactions in dense polymer solutions: a phenomenological theory and neutron-scattering investigations. <i>The Journal of Physical Chemistry</i> , 1984, 88, 6618-6633.	2.9	67
103	Spatial correlations in polycarbonates: Neutron scattering and simulation. <i>Journal of Chemical Physics</i> , 1999, 110, 1819-1830.	3.0	67
104	Stochastic theory of spin depolarization of muons diffusing in the presence of traps. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , 1978, 32, 49-58.	1.9	66
105	Muon Diffusion in Niobium in the Presence of Traps. <i>Physical Review Letters</i> , 1978, 40, 1723-1726.	7.8	66
106	Structure and dynamics of polymer rings by neutron scattering: breakdown of the Rouse model. <i>Soft Matter</i> , 2011, 7, 11169.	2.7	66
107	Starlike Micelles with Starlike Interactions: A Quantitative Evaluation of Structure Factors and Phase Diagram. <i>Physical Review Letters</i> , 2005, 94, 195504.	7.8	65
108	Anomalous relaxation of self-assembled alkyl nanodomains in high-order poly(n-alkyl methacrylates). <i>Soft Matter</i> , 2008, 4, 1792.	2.7	65

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109	Dynamics of Collective Fluctuations and Brownian Motion in Polymer Melts. <i>Physical Review Letters</i> , 1981, 47, 109-113.	7.8	64
110	Cooperative Dynamics in Homopolymer Melts: A Comparison of Theoretical Predictions with Neutron Spin Echo Experiments. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16220-16229.	2.6	64
111	Investigation of the hyperfine fields in the compounds LaCo ₁₃ , LaCo ₅ , YCo ₅ and ThCo ₅ by means of inelastic neutron scattering. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , 1975, 22, 367-372.	1.9	63
112	Study of the temperature dependence of the localized vibrations of H and D in niobium. <i>Physical Review B</i> , 1980, 22, 599-605.	3.2	63
113	Hydrogen diffusion in LaNi ₅ H ₆ studied by quasi-elastic neutron scattering. <i>Journal of the Less Common Metals</i> , 1982, 88, 353-360.	0.8	63
114	Dynamics of microemulsions as seen by neutron spin echo. <i>Physica B: Condensed Matter</i> , 1995, 213-214, 712-717.	2.7	63
115	Sacrificial bonds enhance toughness of dual polybutadiene networks. <i>Polymer</i> , 2016, 87, 123-128.	3.8	63
116	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	63
117	A study of tracer and collective diffusional processes in $\hat{\pm}$ -NbDO ₇ at 600 K using quasielastic neutron scattering with spin analysis. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 79-94.	1.8	62
118	Small-Angle Neutron Scattering Investigation of Topological Constraints and Tube Deformation in Networks. <i>Physical Review Letters</i> , 1995, 74, 4464-4467.	7.8	62
119	Dynamics of polybutadienes with different microstructures. 2. Dielectric response and comparisons with rheological behavior. <i>Journal of Chemical Physics</i> , 1997, 107, 3645-3655.	3.0	62
120	Neutron scattering study of the dynamics of a polymer melt under nanoscopic confinement. <i>Journal of Chemical Physics</i> , 2009, 131, 174901.	3.0	62
121	Large Domain Fluctuations on 50-ns Timescale Enable Catalytic Activity in Phosphoglycerate Kinase. <i>Biophysical Journal</i> , 2010, 99, 2309-2317.	0.5	62
122	Equilibrium Chain Exchange Kinetics of Diblock Copolymer Micelles: Effect of Morphology. <i>Macromolecules</i> , 2011, 44, 6145-6154.	4.8	62
123	Origin of Internal Viscosity Effects in Flexible Polymers: A Comparative Neutron Spin-Echo and Light Scattering Study on Poly(dimethylsiloxane) and Polyisobutylene. <i>Macromolecules</i> , 2001, 34, 1281-1290.	4.8	61
124	Polymer Motion at the Crossover from Rouse to Reptation Dynamics. <i>Macromolecules</i> , 1994, 27, 7437-7446.	4.8	60
125	Kinetics of Block Copolymer Micelles Studied by Small-Angle Scattering Methods. <i>Advances in Polymer Science</i> , 2013, , 51-158.	0.8	60
126	Origin of Dynamic Heterogeneities in Miscible Polymer Blends: A Quasielastic Neutron Scattering Study. <i>Physical Review Letters</i> , 2000, 85, 772-775.	7.8	59

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127	Role of Interfacial Tension for the Structure of PEPâˆ’PEO Polymeric Micelles. A Combined SANS and Pendant Drop Tensiometry Investigation. <i>Macromolecules</i> , 2004, 37, 9984-9993.	4.8	59
128	Optic phonon modes and superconductivity in $\hat{\pm}$ phase (Ti, Zr)-(H, D) alloys. <i>Journal of Physics F: Metal Physics</i> , 1982, 12, 79-86.	1.6	58
129	Melting in Two Dimensions: The Ethylene-on-Graphite System. <i>Physical Review Letters</i> , 1988, 61, 432-435.	7.8	58
130	The positive muon in the intermetallic hydride ZrV2Hx: A muon tracer study supplemented by differential thermoanalysis, neutron vibrational spectroscopy, and quasielastic neutron scattering. <i>Journal of Chemical Physics</i> , 1989, 90, 1935-1949.	3.0	57
131	Compact structure and non-Gaussian dynamics of ring polymer melts. <i>Soft Matter</i> , 2014, 10, 3649-3655.	2.7	57
132	Inelastic neutron scattering studies of vibrational excitations of hydrogen in Nb and Ta. <i>Physical Review B</i> , 1983, 27, 1980-1990.	3.2	56
133	Dynamic fluctuations of crosslinks in a rubber: A neutron-spin-echo study. <i>Physical Review Letters</i> , 1988, 60, 1041-1044.	7.8	56
134	Concentration fluctuations in polymer gel investigated by neutron scattering: Static inhomogeneity in swollen gel. <i>Journal of Chemical Physics</i> , 2004, 121, 12721.	3.0	56
135	Inelastic neutron scattering experiments on the dynamics of a glass-forming material in mesoscopic confinement. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 547-554.	3.1	54
136	Polymer dynamics under confinement. <i>Soft Matter</i> , 2019, 15, 7316-7349.	2.7	54
137	Electronic structure of pyrrole-based conducting polymers: An electron-energy-loss-spectroscopy study. <i>Physical Review B</i> , 1986, 34, 1101-1115.	3.2	53
138	Ordering Phenomena of Star Polymers in Solution by SANS. <i>Europhysics Letters</i> , 1992, 19, 297-303.	2.0	53
139	Collective dynamics of tethered chains: Breathing modes. <i>Physical Review Letters</i> , 1993, 71, 1015-1018.	7.8	53
140	Ordering phenomena of star polymer solutions approaching the $\hat{\tau}$ state. <i>Physical Review E</i> , 1998, 58, 6299-6307.	2.1	53
141	Wax-Crystal Modification for Fuel Oils by Self-Aggregating Partially Crystallizable Hydrocarbon Block Copolymers. <i>Energy & Fuels</i> , 2000, 14, 419-430.	5.1	53
142	Polymer Chain Dynamics in a Random Environment: Heterogeneous Mobilities. <i>Physical Review Letters</i> , 2007, 98, 168301.	7.8	53
143	Dynamics in Poly(<i>n</i> -alkyl methacrylates): A Neutron Scattering, Calorimetric, and Dielectric Study. <i>Macromolecules</i> , 2010, 43, 3107-3119.	4.8	53
144	Polymer dynamics in responsive microgels: influence of cononsolvency and microgel architecture. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2762.	2.8	53

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145	Sensing Polymer Chain Dynamics through Ring Topology: A Neutron Spin Echo Study. <i>Physical Review Letters</i> , 2015, 115, 148302.	7.8	53
146	Local dynamics in a long-chain alkane melt from molecular dynamics simulations and neutron scattering experiments. <i>Journal of Chemical Physics</i> , 1997, 107, 4751-4755.	3.0	51
147	Free Volume of Interphases in Model Nanocomposites Studied by Positron Annihilation Lifetime Spectroscopy. <i>Macromolecules</i> , 2010, 43, 10505-10511.	4.8	51
148	Coherent Propagation and Strain-Induced Localization of Muons in Al. <i>Physical Review Letters</i> , 1978, 41, 1055-1058.	7.8	50
149	Localized hydrogen modes in LaNi ₅ Hx. <i>Journal of the Less Common Metals</i> , 1984, 104, 1-12.	0.8	50
150	Rapid low-temperature hopping of hydrogen in a pure metal: TheSchxsystem. <i>Physical Review Letters</i> , 1990, 65, 1439-1442.	7.8	50
151	Neutron scattering experiments on the glass transition of polymers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 201, 52-66.	2.6	50
152	Self-Assembling Behavior of Living Polymers. <i>Macromolecules</i> , 1998, 31, 4189-4197.	4.8	50
153	On the origin of the non-exponential behaviour of the α -relaxation in glass-forming polymers: incoherent neutron scattering and dielectric relaxation results. <i>Journal of Physics Condensed Matter</i> , 1999, 11, A363-A370.	1.8	50
154	Microemulsion Efficiency Boosting and the Complementary Effect. 1. Structural Properties. <i>Langmuir</i> , 2004, 20, 10433-10443.	3.5	50
155	Small Angle Neutron Scattering Observation of Chain Retraction after a Large Step Deformation. <i>Physical Review Letters</i> , 2005, 95, 166001.	7.8	50
156	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.	4.8	50
157	Localized vibrations of H and D in Ta and their relation to the H(D) potential. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , 1981, 44, 159-165.	1.9	49
158	High-frequency dynamics of glass-forming polybutadiene. <i>Physical Review E</i> , 1999, 59, 4470-4475.	2.1	49
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