

Michael Monkenbusch

List of Publications by Year in descending order

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216
papers

5,931
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57758

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67
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218
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218
docs citations

218
times ranked

3580
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer Aggregates with Crystalline Cores: The System Polyethylene~Poly(ethylenepropylene). <i>Macromolecules</i> , 1997, 30, 1053-1068.	4.8	172
2	Dynamics of Glass-Forming Polymers: "Homogeneous" versus "Heterogeneous" Scenario. <i>Physical Review Letters</i> , 1998, 81, 590-593.	7.8	160
3	Effect of Nanoconfinement on Polymer Dynamics: Surface Layers and Interphases. <i>Physical Review Letters</i> , 2013, 110, 108303.	7.8	154
4	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1984, 5, 157-164.	1.1	152
5	Neutron Spin Echo in Polymer Systems. , 2005, , .		142
6	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
7	Direct Observation of Confined Single Chain Dynamics by Neutron Scattering. <i>Physical Review Letters</i> , 2010, 104, 197801.	7.8	123
8	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
9	Molecular Motions in Polyisobutylene: A Neutron Spin-Echo and Dielectric Investigation. <i>Macromolecules</i> , 1998, 31, 1133-1143.	4.8	110
10	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
11	Molecular Dynamics of a 1,4-Polybutadiene Melt. Comparison of Experiment and Simulation. <i>Macromolecules</i> , 1999, 32, 8857-8865.	4.8	104
12	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
13	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
14	Molecular Observation of Contour-Length Fluctuations Limiting Topological Confinement in Polymer Melts. <i>Physical Review Letters</i> , 2002, 88, 058301.	7.8	93
15	Non-Gaussian Nature of the Relaxation of Glass-Forming Polyisoprene. <i>Physical Review Letters</i> , 2002, 89, 245701.	7.8	92
16	On the non-Gaussianity of chain motion in unentangled polymer melts. <i>Journal of Chemical Physics</i> , 2001, 114, 4285-4288.	3.0	89
17	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
18	Dynamics of bicontinuous microemulsion phases with and without amphiphilic block-copolymers. <i>Journal of Chemical Physics</i> , 2001, 115, 9563-9577.	3.0	86

#	ARTICLE	IF	CITATIONS
19	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.	1.6	85
20	Structural Observation and Kinetic Pathway in the Formation of Polymeric Micelles. Physical Review Letters, 2009, 102, 188301.	7.8	84
21	Membrane Decoration by Amphiphilic Block Copolymers in Bicontinuous Microemulsions. Physical Review Letters, 2000, 85, 102-105.	7.8	83
22	On Structure and Properties of Polypyrrole Alkyl-Sulf(on)ates. Molecular Crystals and Liquid Crystals, 1985, 118, 193-197.	0.8	82
23	Experimental evidence by neutron scattering of a crossover from Gaussian to non-Gaussian behavior in the $\hat{1}\pm$ relaxation of polyisoprene. Physical Review E, 2003, 67, 051802.	2.1	82
24	A comparison of neutron scattering studies and computer simulations of polymer melts. Chemical Physics, 2000, 261, 61-74.	1.9	81
25	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
26	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
27	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
28	Micellization of amphiphilic diblock copolymers: Corona shape and mean-field to scaling crossover. Europhysics Letters, 2000, 51, 628-634.	2.0	76
29	Direct Observation of Correlated Interdomain Motion in Alcohol Dehydrogenase. Physical Review Letters, 2008, 101, 138102.	7.8	75
30	Direct Observation of the Formation of Surfactant Micelles under Nonisothermal Conditions by Synchrotron SAXS. Journal of the American Chemical Society, 2013, 135, 7214-7222.	13.7	74
31	Measuring bending rigidity and spatial renormalization in bicontinuous microemulsions. Europhysics Letters, 2001, 56, 683-689.	2.0	68
32	Cooperative Dynamics in Homopolymer Melts: A Comparison of Theoretical Predictions with Neutron Spin Echo Experiments. Journal of Physical Chemistry B, 2008, 112, 16220-16229.	2.6	64
33	Dynamics of microemulsions as seen by neutron spin echo. Physica B: Condensed Matter, 1995, 213-214, 712-717.	2.7	63
34	Large Domain Fluctuations on 50-ns Timescale Enable Catalytic Activity in \hat{A} Phosphoglycerate Kinase. Biophysical Journal, 2010, 99, 2309-2317.	0.5	62
35	Origin of Internal Viscosity Effects in Flexible Polymers: \hat{A} A Comparative Neutron Spin-Echo and Light Scattering Study on Poly(dimethylsiloxane) and Polyisobutylene. Macromolecules, 2001, 34, 1281-1290.	4.8	61
36	Concentration fluctuations in polymer gel investigated by neutron scattering: Static inhomogeneity in swollen gel. Journal of Chemical Physics, 2004, 121, 12721.	3.0	56

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37	Methyl rotation in acetamide: the transition from quantum mechanical tunneling to classical reorientation studied by inelastic neutron scattering. <i>European Physical Journal B</i> , 1989, 76, 77-88.	1.5	55
38	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
39	Collective dynamics of tethered chains: Breathing modes. <i>Physical Review Letters</i> , 1993, 71, 1015-1018.	7.8	53
40	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
41	Polymer Chain Dynamics in a Random Environment: Heterogeneous Mobilities. <i>Physical Review Letters</i> , 2007, 98, 168301.	7.8	53
42	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
43	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
44	The JCNS neutron spin-echo spectrometer J-NSE at the FRM II. <i>Measurement Science and Technology</i> , 2008, 19, 034022.	2.6	46
45	Investigation of the Dielectric $\hat{\rho}^2$ -Process in Polyisobutylene by Incoherent Quasielastic Neutron Scattering. <i>Macromolecules</i> , 1998, 31, 4926-4934.	4.8	44
46	Neutron Spin Echo Spectroscopy at the NIST Center for Neutron Research. <i>ACS Symposium Series</i> , 1999, , 103-116.	0.5	43
47	Exploring internal protein dynamics by neutron spin echo spectroscopy. <i>Soft Matter</i> , 2011, 7, 1299-1307.	2.7	41
48	Neutron Scattering Study on a Benzene Layer on the Basal Planes of Graphite. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1980, 84, 808-814.	0.9	39
49	Experimental determination of bending rigidity and saddle splay modulus in bicontinuous microemulsions. <i>Soft Matter</i> , 2013, 9, 2308.	2.7	39
50	Molecular Observation of Constraint Release in Polymer Melts. <i>Physical Review Letters</i> , 2006, 96, 238302.	7.8	36
51	Acceleration of membrane dynamics adjacent to a wall. <i>Physical Review E</i> , 2012, 85, 041408.	2.1	35
52	Bending moduli of microemulsions; comparison of results from small angle neutron scattering and neutron spin-echo spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S2903-S2909.	1.8	34
53	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, 043107.	1.3	34
54	Contour length fluctuations in polymer melts: A direct molecular proof. <i>Europhysics Letters</i> , 2005, 72, 1039-1044.	2.0	33

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55	Neutron Spin Echo in Polymer Systems, Chapter 1. , 2005, , 1-221.		33
56	Dynamic properties of microemulsions modified with homopolymers and diblock copolymers: The determination of bending moduli and renormalization effects. Journal of Chemical Physics, 2005, 122, 094908.	3.0	32
57	Polymer dynamics under soft confinement in a self-assembled system. Soft Matter, 2010, 6, 1559.	2.7	32
58	Nanoscale Motion of Soft Nanoparticles in Unentangled and Entangled Polymer Matrices. Physical Review Letters, 2016, 117, 147803.	7.8	32
59	On the structural changes of poly(acetylene) by doping. Die Makromolekulare Chemie Rapid Communications, 1982, 3, 69-75.	1.1	30
60	Radical Cation Salts of Arenes. Structure, Properties and Model Character for Conducting Polymers. Molecular Crystals and Liquid Crystals, 1985, 120, 195-204.	0.8	29
61	Tailored instrumentation for long-pulse neutron spallation sources. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 589, 34-46.	1.6	29
62	Aggregation behaviour of PEâ€PEP copolymers and the winterization of diesel fuel. Physica B: Condensed Matter, 2000, 276-278, 941-943.	2.7	28
63	Fast internal dynamics in alcohol dehydrogenase. Journal of Chemical Physics, 2015, 143, 075101.	3.0	28
64	Polymer Chain Conformation and Dynamical Confinement in a Model One-Component Nanocomposite. Physical Review Letters, 2017, 119, 047801.	7.8	28
65	On solenoid design for neutron spin echo spectrometers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 287, 465-475.	1.6	27
66	Methyl rotational potentials and transferable pair potentials in toluene. Journal of Chemical Physics, 1993, 98, 5653-5661.	3.0	27
67	Molecular Observation of Branch Point Motion in Star Polymer Melts. Macromolecules, 2010, 43, 518-524.	4.8	27
68	Direct Observation of Nonaffine Tube Deformation in Strained Polymer Networks. Physical Review Letters, 2013, 110, 196002.	7.8	27
69	Neutron scattering study on the structure and dynamics of oriented lamellar phase microemulsions. Physical Review E, 2002, 66, 041504.	2.1	26
70	The high-resolution neutron spin-echo spectrometer for the SNS with $\lambda = 3/4$ ns. Physica B: Condensed Matter, 2004, 350, 147-150.	2.7	26
71	Neither Gaussian chains nor hard spheres - star polymers seen as ultrasoft colloids. , 2000, , 88-92.		26
72	Neutron Spinâ€Echo Study of the Dynamic Behavior of Amphiphilic Diblock Copolymer Micelles in Aqueous Solution. Langmuir, 2000, 16, 9177-9185.	3.5	24

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73	Structure and dynamics of balanced supercritical CO ₂ -microemulsions. <i>Soft Matter</i> , 2012, 8, 797-807.	2.7	24
74	Direct observation of the crossover from $\hat{\tau}$ -relaxation to Rouse dynamics in a polymer melt. <i>Europhysics Letters</i> , 2004, 66, 239-245.	2.0	23
75	Space time observation of the α -process in polymers by quasielastic neutron scattering. <i>Journal of Physics Condensed Matter</i> , 1999, 11, A297-A306.	1.8	22
76	Diffusion of Isobutane in Silicalite: A Neutron Spin-Echo and Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26999-27006.	3.1	22
77	Packing and state of order in conducting polymers. The structure of [(CH)(SbF ₆) _{0,06}] _x . <i>Die Makromolekulare Chemie Rapid Communications</i> , 1985, 6, 425-431.	1.1	21
78	Intermediate length scale dynamics in glass forming polymers: coherent and incoherent quasielastic neutron scattering results on polyisobutylene. <i>Chemical Physics</i> , 2003, 292, 295-309.	1.9	21
79	Nanoscale rheology at solid-complex fluid interfaces. <i>Scientific Reports</i> , 2017, 7, 4417.	3.3	21
80	Direct Assessment of Tube Dilation in Entangled Polymers. <i>Physical Review Letters</i> , 2019, 122, 088001.	7.8	21
81	New Routes to Conducting Polymers and New Insights into Structure-Properties Relations. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 118, 85-94.	0.8	20
82	Neutron Spin-Echo Study of Dynamics of Hydrophobically Modified Polymer-Doped Surfactant Bilayers. <i>Langmuir</i> , 2002, 18, 6-13.	3.5	20
83	High resolution neutron spectroscopy—a tool for the investigation of dynamics of polymers and soft matter. <i>Comptes Rendus Physique</i> , 2007, 8, 845-864.	0.9	20
84	Soft fluctuating surfactant membranes in supercritical CO ₂ -microemulsions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3022-3025.	2.8	20
85	New tools for grazing incidence neutron scattering experiments open perspectives to study nano-scale tribology mechanisms. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 871, 72-76.	1.6	20
86	Self-Similar Polymer Ring Conformations Based on Elementary Loops: A Direct Observation by SANS. <i>ACS Macro Letters</i> , 2020, 9, 507-511.	4.8	20
87	Arbeet al.Reply:. <i>Physical Review Letters</i> , 1999, 82, 1336-1336.	7.8	19
88	Hydrodynamic effects in bicontinuous microemulsions measured by inelastic neutron scattering. <i>European Physical Journal E</i> , 2007, 22, 157-161.	1.6	19
89	Molecular View on Supramolecular Chain and Association Dynamics. <i>Physical Review Letters</i> , 2016, 117, 147802.	7.8	19
90	Efficient data extraction from neutron time-of-flight spin-echo raw data. <i>Journal of Applied Crystallography</i> , 2019, 52, 1022-1034.	4.5	19

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91	Collective motions of a network of wormlike micelles. Journal of Physics and Chemistry of Solids, 1999, 60, 1371-1373.	4.0	18
92	Self-motion and the $\hat{\alpha}$ -relaxation in glass-forming polymers. Molecular dynamic simulation and quasielastic neutron scattering results in polyisoprene. Journal of Physics Condensed Matter, 2003, 15, S1127-S1138.	1.8	18
93	Neutron spin echo investigation of the concentration fluctuation dynamics in melts of diblock copolymers. Journal of Chemical Physics, 1999, 110, 10188-10202.	3.0	17
94	Starlike dendrimers in solutions: Structural properties and internal dynamics. Journal of Chemical Physics, 2006, 125, 204908.	3.0	17
95	Plasticizer effect on the dynamics of polyvinylchloride studied by dielectric spectroscopy and quasielastic neutron scattering. Journal of Chemical Physics, 2006, 125, 154904.	3.0	17
96	Improvement of neutron spin echo spectrometer at C2-2 of JRR3M. Journal of Physics and Chemistry of Solids, 1999, 60, 1599-1601.	4.0	16
97	Publisher's Note: Effect of Nanoconfinement on Polymer Dynamics: Surface Layers and Interphases [Phys. Rev. Lett. 110, 108303 (2013)]. Physical Review Letters, 2013, 110, .	7.8	16
98	Polymer enrichment decelerates surfactant membranes near interfaces. Physical Review E, 2014, 89, 042303.	2.1	16
99	Self-Similar Dynamics of Large Polymer Rings: A Neutron Spin Echo Study. Physical Review Letters, 2020, 125, 238004.	7.8	16
100	Morphology of Pristine Poly (Acetylene) Obtained by Luttinger's Catalyst. Molecular Crystals and Liquid Crystals, 1981, 77, 169-175.	0.8	15
101	Structure of Doped Polymers. Molecular Crystals and Liquid Crystals, 1981, 77, 111-123.	0.8	15
102	DEMUX/MUX: removal of multiple scattering from small-angle data. Journal of Applied Crystallography, 1991, 24, 955-958.	4.5	14
103	Structure and dynamics of star polymers. , 1998, , 25-28.		14
104	Neutron scattering and the glass transition in polymers – present status and future opportunities. Journal of Non-Crystalline Solids, 2001, 287, 286-296.	3.1	14
105	Cooperative Chain Dynamics of Tracer Chains in Highly Entangled Polyethylene Melts. Physical Review Letters, 2021, 126, 187801.	7.8	14
106	Dynamic structure factors due to relaxation processes in glass-forming polymers. Physica B: Condensed Matter, 1997, 241-243, 1005-1012.	2.7	13
107	Frozen concentration fluctuations in a poly(N-isopropyl acrylamide) gel studied by neutron spin echo and small-angle neutron scattering. Applied Physics A: Materials Science and Processing, 2002, 74, s399-s401.	2.3	13
108	Hydrogen motions and the $\hat{\alpha}$ -relaxation in glass-forming polymers: Molecular dynamics simulation and quasi-elastic neutron scattering results. Pramana - Journal of Physics, 2004, 63, 25-32.	1.8	13

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109	Structural study of the influence of partially crystalline poly(ethylene butene) random copolymers on paraffin crystallization in dilute solutions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3113-3132.	2.1	13
110	The decisive influence of local chain dynamics on the overall dynamic structure factor close to the glass transition. <i>Europhysics Letters</i> , 2005, 71, 262-268.	2.0	13
111	Dynamics of deuterated polystyrene-protonated butadiene diblock copolymer micelles by neutron spin echo. <i>Journal of Chemical Physics</i> , 2005, 122, 144905.	3.0	13
112	Polymer dynamics under cylindrical confinement featuring a locally repulsive surface: A quasielastic neutron scattering study. <i>Journal of Chemical Physics</i> , 2017, 146, 203306.	3.0	13
113	Influence of morphology on physical properties of poly(2,5-benzimidazole) membranes. <i>Journal of Membrane Science</i> , 2017, 533, 342-350.	8.2	13
114	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1982, 3, 601-607.	1.1	12
115	Magnetoresistance of iodine-doped polyacetylene at low temperatures. <i>Solid State Communications</i> , 1984, 49, 107-110.	1.9	12
116	Inelastic neutron scattering from virgin and densified aerogels. <i>Journal of Non-Crystalline Solids</i> , 1992, 145, 121-127.	3.1	11
117	Reptation in polyethylene-melts with different molecular weights. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 337-338.	2.7	11
118	Growth process for fractal polymer aggregates formed by perfluorooctyltriethoxysilane. Time-resolved small-angle X-ray scattering spectra and the application of the unified equation. <i>Colloid and Polymer Science</i> , 2002, 280, 725-735.	2.1	11
119	Layout and performance of the polarizing guide system for the J-NSE spectrometer at the FRM II. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 586, 90-94.	1.6	11
120	Observing proton motion on the nanoscale in polymeric electrolyte membranes with quasielastic neutron scattering. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21657-21662.	7.1	11
121	A Resonance Raman Investigation on the Degradation of Polyacetylene During Electrochemical Cycling. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1984, 88, 935-939.	0.9	10
122	Amphiphilic block copolymers as efficiency boosters in microemulsions: a SANS investigation of the role of polymers. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s392-s395.	2.3	10
123	Nonflexible Coils in Solution: A Neutron Spin-Echo Investigation of Alkyl-Substituted Polynorbornenes in Tetrahydrofuran. <i>Macromolecules</i> , 2006, 39, 9473-9479.	4.8	10
124	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.	1.6	10
125	Optimized superconducting coils for a high-resolution neutron spin-echo spectrometer at the European Spallation Source, ESS. <i>Measurement Science and Technology</i> , 2015, 26, 035501.	2.6	10
126	Non-Gaussian and Cooperative Dynamics of Entanglement Strands in Polymer Melts. <i>Macromolecules</i> , 2021, 54, 11384-11391.	4.8	10

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127	Coupling the methyl group in acetamide to phonons: a consistent view of tunnelling and lattice dynamics. <i>European Physical Journal B</i> , 1994, 94, 69-77.	1.5	9
128	Correction scheme for divergent beams in zero-field spin-echo spectrometers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 437, 455-458.	1.6	9
129	Neutron Scattering Study on Three Different Phases of Toluene Adsorbed on Graphite Surfaces. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1981, 85, 442-447.	0.9	8
130	On the packing properties of poly(acetylene) chains. <i>Polymer</i> , 1982, 23, 1581-1586.	3.8	8
131	Aggregating block copolymers as model systems to study polymer brush dynamics. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994, 16, 747-755.	0.4	8
132	Dynamics of polymer brushes – What can neutron spin-echo spectroscopy contribute?. <i>Physica B: Condensed Matter</i> , 1995, 213-214, 707-711.	2.7	8
133	Response to “Comment on ‘From Rouse dynamics to local relaxation: A neutron spin echo study on polyisobutylene melts’” [J. Chem. Phys. 113, 11396 (2000)]. <i>Journal of Chemical Physics</i> , 2000, 113, 11398-11399.	3.0	8
134	Grazing incidence neutron spin echo spectroscopy: instrumentation aspects and scientific opportunities. <i>Journal of Physics: Conference Series</i> , 2014, 528, 012025.	0.4	8
135	Fractal diffusion in high temperature polymer electrolyte fuel cell membranes. <i>Journal of Chemical Physics</i> , 2018, 148, 204906.	3.0	8
136	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, 187802.	7.8	8
137	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.	4.8	8
138	Diffuse neutron scattering from $\hat{\Gamma}_2$ -Fe-20 at% Al single crystal. <i>Physica B: Condensed Matter</i> , 1989, 156-157, 78-80.	2.7	7
139	A set of routines for efficient and accurate computation of lattice sums of-potentials. <i>Computer Physics Communications</i> , 1991, 67, 343-355.	7.5	7
140	Direct observation of domain wall excitations in symmetric diblock copolymer melts at and above the order-disorder transition. <i>Europhysics Letters</i> , 2002, 58, 389-394.	2.0	7
141	Correction elements for ultra-high resolution NSE spectrometer. <i>Physica B: Condensed Matter</i> , 2005, 356, 234-238.	2.7	7
142	Observation of Protein Domain Motions by Neutron Spectroscopy. <i>ChemPhysChem</i> , 2010, 11, 1188-1194.	2.1	7
143	Bending elastic properties of a block copolymer-rich lamellar phase doped by a surfactant: a neutron spin-echo study. <i>Soft Matter</i> , 2014, 10, 6926-6930.	2.7	7
144	Structure and dynamics of large ring polymers. <i>Journal of Rheology</i> , 2021, 65, 713-727.	2.6	7

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145	Structure and dynamics of an 2D hydrogen bonded adlayer of imidazole on grafoil. Surface Science, 1987, 191, 547-578.	1.9	6
146	Electronic structure of pyrrole-based conducting polymers. Synthetic Metals, 1987, 18, 71-76.	3.9	6
147	Construction of new spin-echo spectrometer in Jülich. Physica B: Condensed Matter, 1992, 180-181, 935-937.	2.7	6
148	The Jülich neutron spin echo spectrometer. Neutron News, 1997, 8, 25-27.	0.2	6
149	Diffusion of compact macromolecules through polymer meshes: mesh dynamics and probe dynamics. Physica B: Condensed Matter, 2004, 350, 76-78.	2.7	6
150	Dynamic heterogeneity in hydrogen-bonded polymers. Physical Review E, 2006, 74, 031804.	2.1	6
151	Microstructure and morphology of self-assembling multiblock poly(ethylene-butene) copolymers in solution studied by wide-angle neutron scattering and microscopy. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 144-158.	2.1	6
152	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.	3.0	6
153	Analysis of Surface Structure. Journal of Molecular Structure, 1980, 60, 415-420.	3.6	5
154	On the structure of electrochemically doped polyacetylene: $[(CH)_x(SbF_6)_y]_n$. Die Makromolekulare Chemie Rapid Communications, 1983, 4, 555-562.	1.1	5
155	Neutron scattering investigation of a macroscopic single crystal of a lyotropic $L_{1\pm}$ phase. Europhysics Letters, 1998, 43, 135-140.	2.0	5
156	Intensity sharing between Brillouin and Umklapp scattering in glasses. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 2021-2026.	0.6	5
157	Observation of Concentration Fluctuations in Polymer Gels Performed by Neutron Spin Echo. Journal of Neutron Research, 2002, 10, 155-162.	1.1	5
158	Neutron spin-echo spectrometer development for spallation sources. Physica B: Condensed Matter, 2003, 335, 153-156.	2.7	5
159	Fluctuations of bare membranes and their modification on incorporation of polymers having equally spaced anchors. Physica B: Condensed Matter, 2004, 350, 217-219.	2.7	5
160	Design, construction, and performance of a magnetically shielded room for a neutron spin echo spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 644, 40-47.	1.6	5
161	Lightweight fast rotating Fermi-chopper, proof of principle for a scalable array chopper. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 908, 298-308.	1.6	5
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