Kay SaalwÃ¤chter

List of Publications by Year
in descending order

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193	9,215	34493	60403
papers	citations	54 h-index	85 g-index

207	207	207	6997
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Competition between crystal growth and intracrystalline chain diffusion determines the lamellar thickness in semicrystalline polymers. Nature Communications, 2022, 13, 119.	5.8	26
2	Defect-controlled softness, diffusive permeability, and mesh-topology of metallo-supramolecular hydrogels. Soft Matter, 2022, 18, 1071-1081.	1.2	13
3	Polymer Composites with Molecular Fillers: Microscopic Views into Supramolecular Reinforcement. Advances in Dielectrics, 2022, , 163-185.	1.2	1
4	NMRâ€Based Crossâ€Link Densities in EPDM and EPDM/ULDPE Blend Materials and Correlation with Mechanical Properties. Macromolecular Materials and Engineering, 2022, 307, .	1.7	3
5	Design, Synthesis and Characterization of Vitrimers with Low Topology Freezing Transition Temperature. Polymers, 2022, 14, 2456.	2.0	5
6	Swelling and Residual Bond Orientations of Polymer Model Gels: The Entanglement-Free Limit. Macromolecules, 2022, 55, 5997-6014.	2.2	9
7	Spatial inhomogeneity, interfaces and complex vitrification kinetics in a network forming nanocomposite. Soft Matter, 2021, 17, 2775-2790.	1.2	20
8	Sulfobetaine Hydrogels with a Complex Multilength-Scale Hierarchical Structure. Journal of Physical Chemistry B, 2021, 125, 3398-3408.	1.2	4
9	Dynamic Heterogeneity of Fillerâ€Associated Interphases in Polymer Nanocomposites. Macromolecular Rapid Communications, 2021, 42, e2100061.	2.0	7
10	Trajectory-Based Approach for the Analysis of CODEX Solid-State Exchange Experiments in the Slow and Intermediate Motion Regime: Comparison of Experiment, Simulation, and Analytical Treatment. Journal of Physical Chemistry C, 2021, 125, 6839-6850.	1.5	1
11	Rheology, Sticky Chain, and Sticker Dynamics of Supramolecular Elastomers Based on Cluster-Forming Telechelic Linear and Star Polymers. Macromolecules, 2021, 54, 5065-5076.	2.2	20
12	Efficient polynomial analysis of magic-angle spinning sidebands and application to order parameter determination in anisotropic samples. Magnetic Resonance, 2021, 2, 589-606.	0.8	1
13	Asymmetric Co-unit Inclusion in Statistical Copolyesters. Macromolecules, 2021, 54, 835-845.	2.2	9
14	Polymer Networks for Enrichment of Calcium Ions. Polymers, 2021, 13, 3506.	2.0	1
15	On the Immobilized Polymer Fraction in Attractive Nanocomposites: T_g Gradient versus Interfacial Layer. Macromolecules, 2021, 54, 10289-10299.	2.2	20
16	Connectivity Defects and Collective Assemblies in Model Metalloâ€Supramolecular Dualâ€Network Hydrogels. Macromolecular Chemistry and Physics, 2020, 221, 1900400.	1.1	24
17	Self-healing and reprocessable bromo butylrubber based on combined ionic cluster formation and hydrogen bonding. Polymer Chemistry, 2020, 11, 1188-1197.	1.9	23
18	NMR Studies on the Phase-Resolved Evolution of Cross-Link Densities in Thermo-Oxidatively Aged Elastomer Blends. Macromolecules, 2020, 53, 11166-11177.	2.2	15

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19	Terminal Flow of Cluster-Forming Supramolecular Polymer Networks: Single-Chain Relaxation or Micelle Reorganization?. Physical Review Letters, 2020, 125, 127801.	2.9	20
20	Study on Homogeneity in Sulfur Cross-Linked Network Structures of Isoprene Rubber by TD-NMR and AFM â€“ Zinc Stearate System. Macromolecules, 2020, 53, 8438-8449.	2.2	20
21	Control of Particle Dispersion with Autophobic Dewetting in Polymer Nanocomposites. Macromolecules, 2020, 53, 4836-4844.	2.2	9
22	Intracrystalline Dynamics in Oligomerâ€Diluted Poly(Ethylene Oxide). Macromolecular Chemistry and Physics, 2020, 221, 1900393.	1.1	3
23	Structure, Mechanical Properties, and Dynamics of Polyethylenoxide/Nanoclay Nacre-Mimetic Nanocomposites. Macromolecules, 2020, 53, 1716-1725.	2.2	27
24	Relaxation-induced dipolar exchange with recoupling (RIDER) distortions in CODEX experiments. Magnetic Resonance, 2020, 1, 247-259.	0.8	2
25	Initial Solvent-Driven Nonequilibrium Effect on Structure, Properties, and Dynamics of Polymer Nanocomposites. Physical Review Letters, 2019, 123, 167801.	2.9	23
26	Structure and Dynamics in a Polymorphic Nanophase-Separated Stiff Comblike Polymer. Macromolecules, 2019, 52, 6943-6952.	2.2	5
27	Microscopic State of Polymer Network Chains upon Swelling and Deformation. Macromolecules, 2019, 52, 5042-5053.	2.2	14
28	Hierarchical Sticker and Sticky Chain Dynamics in Self-Healing Butyl Rubber Ionomers. Macromolecules, 2019, 52, 4169-4184.	2.2	48
29	Cholesterol-like effects of a fluorotelomer alcohol incorporated in phospholipid membranes. Scientific Reports, 2018, 8, 2154.	1.6	6
30	Dynamics-based assessment of nanoscopic polymer-network mesh structures and their defects. Soft Matter, 2018, 14, 1976-1991.	1.2	38
31	Entrapped Styrene Butadiene Polymer Chains by Solâ€“Gel-Derived Silica Nanoparticles with Hierarchical Raspberry Structures. Journal of Physical Chemistry B, 2018, 122, 2010-2022.	1.2	10
32	Tuning the Properties and Self-Healing Behavior of Ionically Modified Poly(isobutylene-co-isoprene) Rubber. Macromolecules, 2018, 51, 468-479.	2.2	77
33	Liquidâ€“liquid phase coexistence in lipid membranes observed by natural abundance ¹Hâ€“¹³C solid-state NMR. Physical Chemistry Chemical Physics, 2018, 20, 9751-9754.	1.3	9
34	Synthesis and Structural NMR Characterization of Novel PPG/PCL Conetworks Based upon Heterocomplementary Coupling Reactions. Macromolecular Chemistry and Physics, 2018, 219, 1700327.	1.1	30
35	The Underestimated Effect of Intracrystalline Chain Dynamics on the Morphology and Stability of Semicrystalline Polymers. Macromolecules, 2018, 51, 8377-8385.	2.2	36
36	Identifying the Role of Primary and Secondary Interactions on the Mechanical Properties and Healing of Densely Branched Polyimides. Macromolecules, 2018, 51, 8333-8345.	2.2	22

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37	Microsecond motions probed by near-rotary-resonance R1Ï•15N MAS NMR experiments: the model case of protein overall-rocking in crystals. Journal of Biomolecular NMR, 2018, 71, 53-67.	1.6	34
38	Time-Domain NMR Observation of Entangled Polymer Dynamics: Focus on All Tube-Model Regimes, Chain Center, and Matrix Effects. Macromolecules, 2018, 51, 4108-4117.	2.2	20
39	The Influence of Chemical Modification on Linker Rotational Dynamics in Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 8678-8681.	7.2	33
40	The Influence of Chemical Modification on Linker Rotational Dynamics in Metalâ€“Organic Frameworks. Angewandte Chemie, 2018, 130, 8814-8817.	1.6	11
41	Quantitative NMR study of heat-induced aggregation of eye-lens crystallin proteins under crowding conditions. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 1055-1061.	1.1	3
42	Moisture-mediated self-healing kinetics and molecular dynamics in modified polyurethane urea polymers. Polymer, 2018, 151, 125-135.	1.8	15
43	Interplay between Crystallization and Entanglements in the Amorphous Phase of the Crystal-Fixed Polymer Poly(Ïµ-caprolactone). Macromolecules, 2018, 51, 5831-5841.	2.2	44
44	Multiple-Quantum NMR Studies of Anisotropic Polymer Chain Dynamics. , 2018, , 755-781.		5
45	Orientation-dependent proton double-quantum NMR build-up function for soft materials with anisotropic mobility. Solid State Nuclear Magnetic Resonance, 2017, 82-83, 22-28.	1.5	9
46	Reduced-mobility layers with high internal mobility in poly(ethylene oxide)â€“silica nanocomposites. Journal of Chemical Physics, 2017, 146, 203303.	1.2	25
47	Intracrystalline Jump Motion in Poly(ethylene oxide) Lamellae of Variable Thickness: A Comparison of NMR Methods. Macromolecules, 2017, 50, 3890-3902.	2.2	28
48	Microscopic observation of the segmental orientation autocorrelation function for entangled and constrained polymer chains. Journal of Chemical Physics, 2017, 146, .	1.2	20
49	Segmental dynamics of polyethylene-alt-propylene studied by NMR spin echo techniques. Journal of Chemical Physics, 2017, 146, 224901.	1.2	9
50	Complex Morphology of the Intermediate Phase in Block Copolymers and Semicrystalline Polymers As Revealed by ¹H NMR Spin Diffusion Experiments. Macromolecules, 2017, 50, 8598-8610.	2.2	24
51	Opposing Phaseâ€Segregation and Hydrogenâ€Bonding Forces in Supramolecular Polymers. Angewandte Chemie - International Edition, 2017, 56, 13016-13020.	7.2	27
52	Opposing Phaseâ€Segregation and Hydrogenâ€Bonding Forces in Supramolecular Polymers. Angewandte Chemie, 2017, 129, 13196-13200.	1.6	4
53	Comment on â€œTurning Vulcanized Natural Rubber into a Self-Healing Polymer: Effect of the Disulfide/Polysulfide Ratioâ€• ACS Sustainable Chemistry and Engineering, 2017, 5, 11125-11126.	3.2	5
54	Polymer Applications of NMR. , 2017, , 695-708.		1

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55	Multiple-Quantum NMR Studies of Anisotropic Polymer Chain Dynamics. , 2017, , 1-28.		5
56	Applications of Solid-State NMR Spectroscopy for the Study of Lipid Membranes with Polyphilic Guest (Macro)Molecules. Polymers, 2016, 8, 439.	2.0	15
57	Solid State NMR Investigations of Lipid Bilayers in Interaction with Amphiphilic Triblock Copolymers. Biophysical Journal, 2016, 110, 246a.	0.2	0
58	Pharmaceutical nanocrystals confined in porous host systems â€“ interfacial effects and amorphous interphases. Chemical Communications, 2016, 52, 4466-4469.	2.2	15
59	Entanglements, Defects, and Inhomogeneities in Nitrile Butadiene Rubbers: Macroscopic versus Microscopic Properties. Macromolecules, 2016, 49, 9004-9016.	2.2	48
60	Coupling and Decoupling of Rotational and Translational Diffusion of Proteins under Crowding Conditions. Journal of the American Chemical Society, 2016, 138, 10365-10372.	6.6	86
61	Acyl Chain Disorder and Azelaoyl Orientation in Lipid Membranes Containing Oxidized Lipids. Langmuir, 2016, 32, 6524-6533.	1.6	22
62	Transient binding accounts for apparent violation of the generalized Stokesâ€“Einstein relation in crowded protein solutions. Physical Chemistry Chemical Physics, 2016, 18, 18006-18014.	1.3	23
63	Oxidized Lipids in Model Membranes: Atomistic Details from Solid-State NMR Experiments and MD Simulations. Biophysical Journal, 2016, 110, 584a.	0.2	1
64	Self-Assembly of X-Shaped Bolapolyphiles in Lipid Membranes: Solid-State NMR Investigations. Langmuir, 2016, 32, 673-682.	1.6	10
65	Chain Dynamics and Segmental Orientation in Polymer Melts Confined to Nanochannels. Macromolecules, 2016, 49, 244-256.	2.2	30
66	Multiple-Quantum NMR Studies of Anisotropic Polymer Chain Dynamics. , 2016, , 1-28.		1
67	Dendritic Domains with Hexagonal Symmetry Formed by Xâ€Shaped Bolapolyphiles in Lipid Membranes. Chemistry - A European Journal, 2015, 21, 8840-8850.	1.7	15
68	Critical fluctuations and static inhomogeneities in polymer gel volume phase transitions. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1112-1122.	2.4	15
69	NMR-Detected Brownian Dynamics of Î± B-Crystallin over a Wide Range of Concentrations. Biophysical Journal, 2015, 108, 98-106.	0.2	21
70	Temperature-Dependent In-Plane Structure Formation of an X-Shaped Bolapolyphile within Lipid Bilayers. Langmuir, 2015, 31, 2839-2850.	1.6	11
71	Large-Scale Diffusion of Entangled Polymers along Nanochannels. ACS Macro Letters, 2015, 4, 561-565.	2.3	35
72	Moderate MAS enhances local 1 H spin exchange and spin diffusion. Journal of Magnetic Resonance, 2015, 260, 28-37.	1.2	18

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73	Depercolation of aggregates upon polymer grafting in simplified industrial nanocomposites studied with dielectric spectroscopy. Polymer, 2015, 73, 131-138.	1.8	35
74	Basic principles of static proton low-resolution spin diffusion NMR in nanophase-separated materials with mobility contrast. Solid State Nuclear Magnetic Resonance, 2015, 72, 50-63.	1.5	80
75	The â€œlong tailâ€•of the protein tumbling correlation function: observation by 1H NMR relaxometry in a wide frequency and concentration range. Journal of Biomolecular NMR, 2015, 63, 403-415.	1.6	19
76	Correlation of crosslink densities using solid state NMR and conventional techniques in peroxide-crosslinked EPDM rubber. Polymer, 2015, 56, 309-317.	1.8	78
77	Comparison of double-quantum NMR normalization schemes to measure homonuclear dipole-dipole interactions. Journal of Chemical Physics, 2014, 141, 064201.	1.2	4
78	Use of 29Si and 27Al MAS NMR to study thermal activation of kaolinites from Brazilian Amazon kaolin wastes. Applied Clay Science, 2014, 87, 189-196.	2.6	65
79	Entanglement Effects in Elastomers: Macroscopic vs Microscopic Properties. Macromolecules, 2014, 47, 2759-2773.	2.2	109
80	NMR Observations of Entangled Polymer Dynamics: Focus on Tagged Chain Rotational Dynamics and Confirmation from a Simulation Model. Macromolecules, 2014, 47, 256-268.	2.2	23
81	Binding of amphiphilic and triphilic block copolymers to lipid model membranes: the role of perfluorinated moieties. Soft Matter, 2014, 10, 6147-6160.	1.2	20
82	Microscopic Study of Chain Deformation and Orientation in Uniaxially Strained Polymer Networks: NMR Results versus Different Network Models. Macromolecules, 2014, 47, 7597-7611.	2.2	29
83	Slow motions in microcrystalline proteins as observed by MAS-dependent 15N rotating-frame NMR relaxation. Journal of Magnetic Resonance, 2014, 248, 8-12.	1.2	41
84	A double-component Andersonâ€“Weiss approach for describing NMR signals of mobile SIn units: Application to constant-time DIPSHIFT experiments. Journal of Magnetic Resonance, 2014, 248, 115-125.	1.2	7
85	Characterization of Network Structure and Chain Dynamics of Elastomeric Ionomers by Means of ¹H Low-Field NMR. Macromolecules, 2014, 47, 5655-5667.	2.2	86
86	NMR study of interphase structure in layered polymer morphologies with mobility contrast: disorder and confinement effects vs. dynamic heterogeneities. Colloid and Polymer Science, 2014, 292, 1825-1839.	1.0	22
87	Detection of Surface-Immobilized Components and Their Role in Viscoelastic Reinforcement of Rubberâ€“Silica Nanocomposites. ACS Macro Letters, 2014, 3, 481-485.	2.3	139
88	Studying Twin Samples Provides Evidence for a Unique Structure-Determining Parameter in Simplifed Industrial Nanocomposites. ACS Macro Letters, 2014, 3, 448-452.	2.3	27
89	Network Structure and Inhomogeneities of Model and Commercial Polyelectrolyte Hydrogels as Investigated by Low-Field Proton NMR Techniques. Macromolecules, 2014, 47, 4251-4265.	2.2	47
90	Local Flips and Chain Motion in Polyethylene Crystallites: A Comparison of Melt-Crystallized Samples, Reactor Powders, and Nanocrystals. Macromolecules, 2014, 47, 5163-5173.	2.2	37

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91	The Nonâ€effect of Polymerâ€Network Inhomogeneities in Microgel Volume Phase Transitions: Support for the Meanâ€Field Perspective. Macromolecular Chemistry and Physics, 2014, 215, 1116-1133.	1.1	27
92	Photo-vulcanization using thiol-ene chemistry: Film formation, morphology and network characteristics of UV crosslinked rubber latices. Polymer, 2014, 55, 5584-5595.	1.8	26
93	Dynamics in Crystallites of Poly(Îµ-caprolactone) As Investigated by Solid-State NMR. Macromolecules, 2013, 46, 7818-7825.	2.2	52
94	Internal protein dynamics on ps to Î¼s timescales as studied by multi-frequency 15N solid-state NMR relaxation. Journal of Biomolecular NMR, 2013, 57, 219-235.	1.6	37
95	Solid-State NMR Approaches to Internal Dynamics of Proteins: From Picoseconds to Microseconds and Seconds. Accounts of Chemical Research, 2013, 46, 2028-2036.	7.6	72
96	Local Chain Deformation and Overstrain in Reinforced Elastomers: An NMR Study. Macromolecules, 2013, 46, 5549-5560.	2.2	49
97	Inhomogeneities and local chain stretching in partially swollen networks. Soft Matter, 2013, 9, 6943-6954.	1.2	48
98	Heterogeneity, Segmental and Hydrogen Bond Dynamics, and Aging of Supramolecular Self-Healing Rubber. Macromolecules, 2013, 46, 1841-1850.	2.2	89
99	Structure and swelling of polymer networks: insights from NMR. Soft Matter, 2013, 9, 6587.	1.2	51
100	Sulfur-Cured Natural Rubber Elastomer Networks: Correlating Cross-Link Density, Chain Orientation, and Mechanical Response by Combined Techniques. Macromolecules, 2013, 46, 889-899.	2.2	110
101	Comment on â€œChain Entanglements in Polyethylene Melts. Why Is It Studied Again?â€• Macromolecules, 2013, 46, 5090-5093.	2.2	10
102	Robust NMR Approaches for the Determination of Homonuclear Dipoleâ€“Dipole Coupling Constants in Studies of Solid Materials and Biomolecules. ChemPhysChem, 2013, 14, 3000-3014.	1.0	62
103	Avoiding Bias Effects in NMR Experiments for Heteronuclear Dipoleâ€“Dipole Coupling Determinations: Principles and Application to Organic Semiconductor Materials. ChemPhysChem, 2013, 14, 3146-3155.	1.0	10
104	MICROSTRUCTURE AND MOLECULAR DYNAMICS OF ELASTOMERS AS STUDIED BY ADVANCED LOW-RESOLUTION NUCLEAR MAGNETIC RESONANCE METHODS. Rubber Chemistry and Technology, 2012, 85, 350-386.	0.6	62
105	Cross-Link Density Estimation of PDMS Networks with Precise Consideration of Networks Defects. Macromolecules, 2012, 45, 899-912.	2.2	174
106	Determination of Chain Flip Rates in Poly(ethylene) Crystallites by Solid-State Low-Field ¹H NMR for Two Different Sample Morphologies. Journal of Physical Chemistry B, 2012, 116, 13089-13097.	1.2	47
107	Solid particles in an elastomer matrix: impact of colloid dispersion and polymer mobility modification on the mechanical properties. Soft Matter, 2012, 8, 4090.	1.2	99
108	Glass-Transition Temperature Gradient in Nanocomposites: Evidence from Nuclear Magnetic Resonance and Differential Scanning Calorimetry. Physical Review Letters, 2012, 108, 065702.	2.9	152

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109	Proton NMR spin-diffusion studies of PS-PB block copolymers at low field: two- vs three-phase model and recalibration of spin-diffusion coefficients. Polymer Journal, 2012, 44, 748-756.	1.3	19
110	A T-Shaped Amphiphilic Molecule Forms Closed Vesicles in Water and Bicelles in Mixtures with a Membrane Lipid. Journal of Physical Chemistry B, 2012, 116, 4871-4878.	1.2	18
111	Mechanical Properties and Cross-Link Density of Styreneâ€“Butadiene Model Composites Containing Fillers with Bimodal Particle Size Distribution. Macromolecules, 2012, 45, 6504-6515.	2.2	118
112	The relation of the X-ray B-factor to protein dynamics: insights from recent dynamic solid-state NMR data. Journal of Biomolecular Structure and Dynamics, 2012, 30, 617-627.	2.0	16
113	Recoupled separated-local-field experiments and applications to study intermediate-regime molecular motions. Journal of Magnetic Resonance, 2012, 221, 85-96.	1.2	20
114	Thermodynamics of Swollen Networks As Reflected in Segmental Orientation Correlations. Macromolecules, 2012, 45, 5513-5523.	2.2	27
115	Real-Time Observation of Polymer Network Formation by Liquid- and Solid-State NMR Revealing Multistage Reaction Kinetics. Journal of Physical Chemistry B, 2012, 116, 7566-7574.	1.2	11
116	Polymer Dynamics in PEG-Silica Nanocomposites: Effects of Polymer Molecular Weight, Temperature and Solvent Dilution. Macromolecules, 2012, 45, 4225-4237.	2.2	137
117	Polymer Dynamics of Polybutadiene in Nanoscopic Confinement As Revealed by Field Cycling ¹H NMR. Macromolecules, 2011, 44, 4017-4021.	2.2	38
118	Influence of Chain Topology on Polymer Dynamics and Crystallization. Investigation of Linear and Cyclic Poly(Îµ-caprolactone)s by ¹H Solid-State NMR Methods. Macromolecules, 2011, 44, 2743-2754.	2.2	77
119	Time-Domain NMR Observation of Entangled Polymer Dynamics: Universal Behavior of Flexible Homopolymers and Applicability of the Tube Model. Macromolecules, 2011, 44, 1549-1559.	2.2	102
120	Connectivity and Structural Defects in Model Hydrogels: A Combined Proton NMR and Monte Carlo Simulation Study. Macromolecules, 2011, 44, 9666-9674.	2.2	161
121	Low-Field NMR Investigations of Nanocomposites: Polymer Dynamics and Network Effects. Macromolecules, 2011, 44, 913-922.	2.2	207
122	Time-Domain NMR Observation of Entangled Polymer Dynamics: Analytical Theory of Signal Functions. Macromolecules, 2011, 44, 1560-1569.	2.2	53
123	Chain Mobility in Crosslinked EPDM Rubbers. Comparison of¹H NMR T₂Relaxometry and Double-Quantum¹H NMR. ACS Symposium Series, 2011, , 207-220.	0.5	7
124	BaBa-xy16: Robust and broadband homonuclear DQ recoupling for applications in rigid and soft solids up to the highest MAS frequencies. Journal of Magnetic Resonance, 2011, 212, 204-215.	1.2	143
125	Breakdown in the efficiency factor of the mixed Magic Sandwich Echo: A novel NMR probe for slow motions. Chemical Physics Letters, 2011, 516, 106-110.	1.2	19
126	Precise dipolar coupling constant distribution analysis in proton multiple-quantum NMR of elastomers. Journal of Chemical Physics, 2011, 134, 044907.	1.2	105

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127	Segmental Order Parameters and Swelling in Polymer Networks. Macromolecular Symposia, 2010, 291-292, 251-257.	0.4	8
128	Confinement Effects on Chain Dynamics and Local Chain Order in Entangled Polymer Melts. Macromolecules, 2010, 43, 4429-4434.	2.2	58
129	Novel Experimental Approach To Evaluate Fillerâ^'Elastomer Interactions. Macromolecules, 2010, 43, 334-346.	2.2	163
130	High Crystallinity and Nature of Crystalâ^'Crystal Phase Transformations in Regioregular Poly(3-hexylthiophene). Macromolecules, 2010, 43, 9401-9410.	2.2	126
131	NMR Observation of Entangled Polymer Dynamics: Tube Model Predictions and Constraint Release. Physical Review Letters, 2010, 104, 198305.	2.9	58
132	Inhomogeneities and Chain Dynamics in Diene Rubbers Vulcanized with Different Cure Systems. Macromolecules, 2010, 43, 4210-4222.	2.2	171
133	MQ NMR and SPME Analysis of Nonlinearity in the Degradation of a Filled Silicone Elastomer. Journal of Physical Chemistry B, 2010, 114, 9729-9736.	1.2	21
134	Particle-induced network formation in linear PDMS filled with silica. Polymer, 2009, 50, 5434-5442.	1.8	55
135	Direct Observation of Millisecond to Second Motions in Proteins by Dipolar CODEX NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 12097-12099.	6.6	45
136	Diffusion in Model Networks as Studied by NMR and Fluorescence Correlation Spectroscopy. Macromolecules, 2009, 42, 4681-4689.	2.2	47
137	Gradient Interfaces in SBS and SBS/PS Blends and Their Influence on Morphology Development and Material Properties. Macromolecules, 2009, 42, 5684-5699.	2.2	28
138	Structure of Poly(vinyl alcohol) Cryo-Hydrogels as Studied by Proton Low-Field NMR Spectroscopy. Macromolecules, 2009, 42, 263-272.	2.2	75
139	Intermediate motions and dipolar couplings as studied by Leeâ€“Goldburg cross-polarization NMR: Hartmannâ€“Hahn matching profiles. Physical Chemistry Chemical Physics, 2009, 11, 7036.	1.3	27
140	Signal loss in 1D magic-angle spinning exchange NMR (CODEX): radio-frequency limitations and intermediate motions. Physical Chemistry Chemical Physics, 2009, 11, 7022.	1.3	11
141	Spin-diffusion NMR at low field for the study of multiphase solids. Solid State Nuclear Magnetic Resonance, 2008, 34, 125-141.	1.5	87
142	Natural rubber/clay nanocomposites: Influence of poly(ethylene glycol) on the silicate dispersion and local chain order of rubber network. European Polymer Journal, 2008, 44, 3493-3500.	2.6	44
143	Uncertainties in the Determination of Cross-Link Density by Equilibrium Swelling Experiments in Natural Rubber. Macromolecules, 2008, 41, 4717-4729.	2.2	201
144	Insights in the Antibacterial Action of Poly(methyloxazoline)s with a Biocidal End Group and Varying Satellite Groups. Biomacromolecules, 2008, 9, 1764-1771.	2.6	92

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145	Direct Observation of Interphase Composition in Block Copolymers. Macromolecules, 2008, 41, 9187-9191.	2.2	25
146	Effect of excluded volume on segmental orientation correlations in polymer chains. Physical Review E, 2008, 78, 051803.	0.8	34
147	Intermediate motions as studied by solid-state separated local field NMR experiments. Journal of Chemical Physics, 2008, 128, 104505.	1.2	85
148	Gelation as Studied by Proton Multiple-Quantum NMR. Macromolecules, 2007, 40, 1555-1561.	2.2	47
149	Crystallization Kinetics of Poly(dimethylsiloxane) Molecular-Weight Blendsâ€"Correlation with Local Chain Order in the Melt?. Macromolecular Chemistry and Physics, 2007, 208, 2066-2075.	1.1	24
150	NMR Reveals Non-Distributed and Uniform Character of Network Chain Dynamics. Macromolecular Rapid Communications, 2007, 28, 1455-1465.	2.0	47
151	Proton multiple-quantum NMR for the study of chain dynamics and structural constraints in polymeric soft materials. Progress in Nuclear Magnetic Resonance Spectroscopy, 2007, 51, 1-35.	3.9	365
152	Memory effect in isothermal crystallization of syndiotactic polypropylene --Role of melt structure and dynamics?. European Physical Journal E, 2007, 23, 91-101.	0.7	57
153	Hydrogel formation by photocrosslinking of dimethylmaleimide functionalized polyacrylamide. Polymer, 2007, 48, 5599-5611.	1.8	67
154	Phase Biaxiality in Nematic Liquid Crystals. , 2007, , 141-170.		4
155	Chain Dynamics in Elastomers As Investigated by Proton Multiple-Quantum NMR. Macromolecules, 2006, 39, 3291-3303.	2.2	73
156	Phase Biaxiality in Nematic Liquid Crystalline Side-Chain Polymers of Various Chemical Constitutions. Journal of Physical Chemistry B, 2006, 110, 15680-15688.	1.2	53
157	Low-field NMR studies of polymer crystallization kinetics: Changes in the melt dynamics. Polymer, 2006, 47, 7216-7221.	1.8	27
158	A Robust Proton NMR Method to Investigate Hard/Soft Ratios, Crystallinity, and Component Mobility in Polymers. Macromolecular Chemistry and Physics, 2006, 207, 1150-1158.	1.1	144
159	Analysis of the spatial structure of rigid polyphenylene dendrimers by small-angle neutron scattering. Journal of Luminescence, 2005, 111, 225-238.	1.5	25
160	Segmental order in end-linked polymer networks: A Monte Carlo study. European Physical Journal E, 2005, 18, 167-182.	0.7	37
161	Lamellar Liquid Single Crystal Hydrogels:Â Synthesis and Investigation of Anisotropic Water Diffusion and Swelling. Macromolecules, 2005, 38, 9772-9782.	2.2	22
162	Chain Order and Cross-Link Density of Elastomers As Investigated by Proton Multiple-Quantum NMR. Macromolecules, 2005, 38, 9650-9660.	2.2	125

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163	Chemical Shift-Related Artifacts in NMR Determinations of Proton Residual Dipolar Couplings in Elastomers. Macromolecules, 2005, 38, 4040-4042.	2.2	24
164	Artifacts in Transverse Proton NMR Relaxation Studies of Elastomers. Macromolecules, 2005, 38, 1508-1512.	2.2	60
165	Molecular Motion of Isolated Linear Alkanes in Nanochannels. Journal of Physical Chemistry B, 2005, 109, 23285-23294.	1.2	24
166	1H multiple-quantum nuclear magnetic resonance investigations of molecular order in polymer networks. II. Intensity decay and restricted slow dynamics. Journal of Chemical Physics, 2004, 120, 454-464.	1.2	48
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