Dieter Richter

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634 papers	21,813 citations	74 h-index	114 g-index
661 ext. papers	22,885 ext. citations	3.9 avg, IF	6.43 L-index

#	Paper	IF	Citations
634	Connection between Polymer Molecular Weight, Density, Chain Dimensions, and Melt Viscoelastic Properties. *Macromolecules*, **1994**, 27, 4639-4647	5.5	1595
633	Star Polymers Viewed as Ultrasoft Colloidal Particles. *Physical Review Letters*, **1998**, 80, 4450-4453	7.4	426
632	Unexpected power-law stress relaxation of entangled ring polymers. *Nature Materials*, **2008**, 7, 997-1002	27	392
631	The microscopic basis of the glass transition in polymers from neutron scattering studies. *Science*, **1995**, 267, 1939-45	33.3	291
630	Merging of the alpha and beta relaxations in polybutadiene: A neutron spin echo and dielectric study. *Physical Review E*, **1996**, 54, 3853-3869	2.4	245
629	Neutron-spin-echo investigation on the dynamics of polybutadiene near the glass transition. *Physical Review Letters*, **1988**, 61, 2465-2468	7.4	235
628	Neutron scattering study of the picosecond dynamics of polybutadiene and polyisoprene. *Physical Review E*, **1995**, 52, 781-795	2.4	184
627	Temperature dependence of the nonergodicity parameter in polybutadiene in the neighborhood of the glass transition. *Physical Review Letters*, **1990**, 64, 2921-2924	7.4	181
626	Polymer Aggregates with Crystalline Cores: The System Polyethylene−Poly(ethylenepropylene). *Macromolecules*, **1997**, 30, 1053-1068	5.5	158
625	Phase transitions in crystals of chain molecules. Relation between defect structures and molecular motion in the four modifications of n-C33H68. *Faraday Discussions of the Chemical Society*, **1980**, 69, 19		154
624	Study of the glass transition order parameter in amorphous polybutadiene by incoherent neutron scattering. *European Physical Journal B*, **1988**, 70, 73-79	1.2	153
623	Dynamics of Glass-Forming Polymers: "Homogeneous" versus "Heterogeneous" Scenario. *Physical Review Letters*, **1998**, 81, 590-593	7.4	148
622	Equilibrium Chain Exchange Kinetics of Diblock Copolymer Micelles: Tuning and Logarithmic Relaxation. *Macromolecules*, **2006**, 39, 4566-4575	5.5	144
621	Chain Motion in an Unentangled Polyethylene Melt: A Critical Test of the Rouse Model by Molecular Dynamics Simulations and Neutron Spin Echo Spectroscopy. *Physical Review Letters*, **1998**, 80, 2346-2349	7.4	143
620	Shape and size fluctuations of microemulsion droplets: The role of cosurfactant. *Physical Review Letters*, **1990**, 65, 3348-3351	7.4	140
619	Structural Investigation of Star Polymers in Solution by Small-Angle Neutron Scattering. *Macromolecules*, **1994**, 27, 3821-3829	5.5	139
618	Amphiphilic Block Copolymers as Efficiency Boosters for Microemulsions. *Langmuir*, **1999**, 15, 6707-6711	4	134

617	Effect of nanoconfinement on polymer dynamics: surface layers and interphases. *Physical Review Letters*, **2013**, 110, 108303	7.4	133
616	Architecturally induced multiresponsive vesicles from well-defined polypeptides: formation of gene vehicles. *Biomacromolecules*, **2007**, 8, 2173-81	6.9	133
615	Change of the vibrational dynamics near the glass transition in polyisobutylene: Inelastic neutron scattering on a nonfragile polymer. *Physical Review B*, **1993**, 47, 14795-14804	3.3	132
614	Effect of Blending on the PVME Dynamics. A Dielectric, NMR, and QENS Investigation. *Macromolecules*, **1999**, 32, 4065-4078	5.5	128
613	Dynamics of Entangled Chains in Polymer Nanocomposites. *Macromolecules*, **2011**, 44, 5857-5860	5.5	122
612	Star Polymers: Experiment, Theory, and Simulation. *Advances in Chemical Physics*, **2007**, 67-163		122
611	Study of dynamics of microemulsion droplets by neutron spin-echo spectroscopy. *Physical Review Letters*, **1987**, 59, 2600-2603	7.4	122
610	Clear Evidence of Reptation in Polyethylene from Neutron Spin-Echo Spectroscopy. *Physical Review Letters*, **1998**, 81, 124-127	7.4	120
609	Decoupling of time scales of motion in polybutadiene close to the glass transition. *Physical Review Letters*, **1992**, 68, 71-74	7.4	119
608	Neutron Spin Echo in Polymer Systems **2005**,		119
607	Direct observation of confined single chain dynamics by neutron scattering. *Physical Review Letters*, **2010**, 104, 197801	7.4	115
606	Local Dynamics of Lipid Bilayers Studied by Incoherent Quasi-Elastic Neutron Scattering. *Europhysics Letters*, **1989**, 8, 201-206	1.6	115
605	Structural Changes near the Glass Transition□Neutron Diffraction on a Simple Polymer. *Europhysics Letters*, **1989**, 9, 557-562	1.6	113
604	Muon diffusion and trapping in aluminum and dilute aluminum alloys: Experiments and comparison with small-polaron theory. *Physical Review B*, **1982**, 26, 567-590	3.3	113
603	Dynamics of star-burst dendrimers in solution in relation to their structural properties. *Journal of Chemical Physics*, **2002**, 117, 4047-4062	3.9	112
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601	Molecular dynamics of lipid bilayers studied by incoherent quasi-elastic neutron scattering. *Journal De Physique II*, **1992**, 2, 1589-1615		108
600	Direct microscopic observation of the entanglement distance in a polymer melt. *Physical Review Letters*, **1990**, 64, 1389-1392	7.4	108

599	KWS-1 high-resolution small-angle neutron scattering instrument at JCNS: current state. *Journal of Applied Crystallography*, **2015**, 48, 61-70	3.8	107
598	Viscosity of ring polymer melts. *ACS Macro Letters*, **2013**, 2, 874-878	6.6	107
597	Viscosity Decrease and Reinforcement in Polymer Silsesquioxane Composites. *Macromolecules*, **2011**, 44, 7820-7830	5.5	104
596	Synthesis and Characterization of Poly[1,4-isoprene-b-(ethylene oxide)] and Poly[ethylene-co-propylene-b-(ethylene oxide)] Block Copolymers. *Macromolecules*, **1997**, 30, 1582-1586	5.5	104
595	Logarithmic chain-exchange kinetics of diblock copolymer micelles. *Physical Review Letters*, **2006**, 96, 068302	7.4	102
594	Molecular Motions in Polyisobutylene: A Neutron Spin-Echo and Dielectric Investigation. *Macromolecules*, **1998**, 31, 1133-1143	5.5	102
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589	Prediction of Melt State Poly(olefin) Rheological Properties: The Unsuspected Role of the Average Molecular Weight per Backbone Bond. *Macromolecules*, **2002**, 35, 10096-10101	5.5	97
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584	Effect of amphiphilic block copolymers on the structure and phase behavior of oil water-surfactant mixtures. *Journal of Chemical Physics*, **2001**, 115, 580-600	3.9	91
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582	Conformations of Silica Poly(ethylene propylene) Nanocomposites. *Macromolecules*, **2010**, 43, 9837-9847	5.5	89

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