

# Bernhard Frick

## List of Publications by Citations

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303  
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44  
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322  
ext. papers

8,131  
ext. citations

3.7  
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L-index

#	Paper	IF	Citations
303	The microscopic basis of the glass transition in polymers from neutron scattering studies. <i>Science</i> , <b>1995</b> , 267, 1939-45	33.3	291
302	Neutron-spin-echo investigation on the dynamics of polybutadiene near the glass transition. <i>Physical Review Letters</i> , <b>1988</b> , 61, 2465-2468	7.4	235
301	Neutron scattering study of the picosecond dynamics of polybutadiene and polyisoprene. <i>Physical Review E</i> , <b>1995</b> , 52, 781-795	2.4	184
300	Temperature dependence of the nonergodicity parameter in polybutadiene in the neighborhood of the glass transition. <i>Physical Review Letters</i> , <b>1990</b> , 64, 2921-2924	7.4	181
299	Correlation between non-Debye behavior and Q behavior of the alpha relaxation in glass-forming polymeric systems. <i>Physical Review Letters</i> , <b>1992</b> , 69, 478-481	7.4	158
298	Study of the glass transition order parameter in amorphous polybutadiene by incoherent neutron scattering. <i>European Physical Journal B</i> , <b>1988</b> , 70, 73-79	1.2	153
297	Change of the vibrational dynamics near the glass transition in polyisobutylene: Inelastic neutron scattering on a nonfragile polymer. <i>Physical Review B</i> , <b>1993</b> , 47, 14795-14804	3.3	132
296	Comparison of Raman- and neutron-scattering data for glass-forming systems. <i>Physical Review B</i> , <b>1995</b> , 52, R9815-R9818	3.3	131
295	Effect of Blending on the PVME Dynamics. A Dielectric, NMR, and QENS Investigation. <i>Macromolecules</i> , <b>1999</b> , 32, 4065-4078	5.5	128
294	Confinement of molecular liquids: consequences on thermodynamic, static and dynamical properties of benzene and toluene. <i>European Physical Journal E</i> , <b>2003</b> , 12, 19-28	1.5	121
293	Glassy dynamics of polymers confined to nanoporous glasses revealed by relaxational and scattering experiments. <i>European Physical Journal E</i> , <b>2003</b> , 12, 173-8	1.5	119
292	Decoupling of time scales of motion in polybutadiene close to the glass transition. <i>Physical Review Letters</i> , <b>1992</b> , 68, 71-74	7.4	119
291	Methyl Group Dynamics in Glassy Polyisoprene: A Neutron Backscattering Investigation. <i>Macromolecules</i> , <b>1994</b> , 27, 974-980	5.5	115
290	Structural Changes near the Glass Transition - Neutron Diffraction on a Simple Polymer. <i>Europhysics Letters</i> , <b>1989</b> , 9, 557-562	1.6	113
289	Polymers in nanoconfinement: What can be learned from relaxation and scattering experiments?. <i>Journal of Non-Crystalline Solids</i> , <b>2005</b> , 351, 2668-2677	3.9	101
288	Dynamics of the alpha relaxation of a glass-forming polymeric system: Dielectric, mechanical, nuclear-magnetic-resonance, and neutron-scattering studies. <i>Physical Review B</i> , <b>1991</b> , 44, 7321-7329	3.3	93
287	Influence of pressure on the boson peak: stronger than elastic medium transformation. <i>Physical Review Letters</i> , <b>2007</b> , 99, 055502	7.4	90

286	Glass transition of polymers confined to nanoporous glasses. <i>Colloid and Polymer Science</i> , <b>2004</b> , 282, 882-891	2.4	88
285	Influence of Molecular Weight on Fast Dynamics and Fragility of Polymers. <i>Macromolecules</i> , <b>2004</b> , 37, 9264-9272	5.5	83
284	Non-Gaussian nature of the alpha relaxation of glass-forming polyisoprene. <i>Physical Review Letters</i> , <b>2002</b> , 89, 245701	7.4	83
283	Spin dynamics of CeX <sub>2</sub> Si <sub>2</sub> (X=Au, Pd, Rh, Ru). <i>Physical Review B</i> , <b>1989</b> , 39, 4164-4174	3.3	81
282	Probing the Dynamics of the Porous Zr Terephthalate UiO-66 Framework Using <sup>2</sup> H NMR and Neutron Scattering. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 12131-12136	3.8	79
281	Experimental evidence by neutron scattering of a crossover from Gaussian to non-Gaussian behavior in the alpha relaxation of polyisoprene. <i>Physical Review E</i> , <b>2003</b> , 67, 051802	2.4	77
280	Is the Fast Process at the Glass Transition Mainly due to Long Wavelength Excitations?. <i>Physical Review Letters</i> , <b>1996</b> , 77, 4035-4038	7.4	70
279	Crystal-field excitations in CeX <sub>2</sub> Si <sub>2</sub> (X=Au, Ag, Pd, and Ru). <i>Physical Review B</i> , <b>1989</b> , 39, 2557-2561	3.3	67
278	Quantum Rotational Tunneling of Methyl Groups in Polymers. <i>Physical Review Letters</i> , <b>1998</b> , 80, 2350-2353	3.1	66
277	Crossover from Independent to Cooperative Segmental Dynamics in Polymers: Experimental Realization in Poly(Vinyl Chloride). <i>Physical Review Letters</i> , <b>1997</b> , 78, 1928-1931	7.4	65
276	Five years operation of the second generation backscattering spectrometer IN16B retrospective, recent developments and plans. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 301, 8-19	2.8	65
275	Neutron Scattering Evidence for Localized Soft Modes in Amorphous Polymers. <i>Physical Review Letters</i> , <b>1996</b> , 77, 659-662	7.4	59
274	Segmental Dynamics in Dendrimers with Perfluorinated End Groups: A Study Using Quasielastic Neutron Scattering. <i>Macromolecules</i> , <b>1998</b> , 31, 5415-5423	5.5	57
273	Structure and properties of ferroelectric copolymers of poly(vinylidene fluoride). <i>Advances in Polymer Science</i> , <b>1993</b> , 1-48	1.3	53
272	Dynamic Confinement Effects in Polymer Blends. A Quasielastic Neutron Scattering Study of the Dynamics of Poly(ethylene oxide) in a Blend with Poly(vinyl acetate). <i>Macromolecules</i> , <b>2006</b> , 39, 3007-3018	5.5	52
271	Methyl Group Dynamics in Poly(vinyl acetate): A Neutron Scattering Study. <i>Macromolecules</i> , <b>1998</b> , 31, 3985-3993	5.5	51
270	Restricted Dynamics in Poly(ether ether ketone) As Revealed by Incoherent Quasielastic Neutron Scattering and Broad-Band Dielectric Spectroscopy. <i>Macromolecules</i> , <b>1999</b> , 32, 2301-2308	5.5	51
269	Recent Backscattering Instrument Developments at the ILL and SNS. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2010</b> , 224, 33-60	3.1	50

268	Inelastic neutron scattering for investigating the dynamics of confined glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , <b>2005</b> , 351, 2657-2667	3.9	50
267	Inelastic neutron scattering experiments on the dynamics of a glass-forming material in mesoscopic confinement. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 307-310, 547-554	3.9	49
266	Probing the flexibility of the bacterial reaction center: the wild-type protein is more rigid than two site-specific mutants. <i>Biochemistry</i> , <b>2007</b> , 46, 14960-8	3.2	48
265	Segmental dynamics of poly(methyl phenyl siloxane) confined to nanoporous glasses. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 141, 255-259	2.3	47
264	Component segmental mobilities in an athermal polymer blend: Quasielastic incoherent neutron scattering versus simulation. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 8687-8694	3.9	47
263	Neutron scattering experiments on the glass transition of polymers. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1993</b> , 201, 52-66	3.3	47
262	Nanostructure and Transport Properties of Proton Conducting Self-Assembled Perfluorinated Surfactants: A Bottom-Up Approach toward PFSA Fuel Cell Membranes. <i>Macromolecules</i> , <b>2015</b> , 48, 6166-6176	5.5	46
261	New sources and instrumentation for neutrons in biology. <i>Chemical Physics</i> , <b>2008</b> , 345, 133-151	2.3	46
260	High-frequency dynamics of glass-forming polybutadiene. <i>Physical Review E</i> , <b>1999</b> , 59, 4470-4475	2.4	45
259	Dielectric Susceptibility of Liquid Water: Microscopic Insights from Coherent and Incoherent Neutron Scattering. <i>Physical Review Letters</i> , <b>2016</b> , 117, 185501	7.4	42
258	New possibilities with inelastic fixed window scans and linear motor Doppler drives on high resolution neutron backscattering spectrometers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2012</b> , 669, 7-13	1.2	42
257	Diffusion of Xylene Isomers in the MIL-47(V) MOF Material: A Synergic Combination of Computational and Experimental Tools. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 6293-6302	3.8	42
256	Cultivar and Seeding Rate Effects on the Competitive Ability of Spring Cereals Grown under Organic Production in Northern Canada. <i>Agronomy Journal</i> , <b>2007</b> , 99, 1199-1207	2.2	42
255	Investigation of the Dielectric beta-Process in Polyisobutylene by Incoherent Quasielastic Neutron Scattering. <i>Macromolecules</i> , <b>1998</b> , 31, 4926-34	5.5	42
254	Comparative study of the segmental relaxation in polyisoprene by quasi-elastic neutron scattering and dielectric spectroscopy. <i>Physica B: Condensed Matter</i> , <b>1992</b> , 180-181, 534-536	2.8	41
253	Quasielastic neutron scattering study of the methyl group dynamics in polyisoprene. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 845-853	3.9	40
252	Dynamic Confinement Effects in Polymer Blends. A Quasielastic Neutron Scattering Study of the Slow Component in the Blend Poly(vinyl acetate)/Poly(ethylene oxide). <i>Macromolecules</i> , <b>2007</b> , 40, 4568-4577	5.5	39
251	Structure and Dynamics of Hyperbranched Polymer/Layered Silicate Nanocomposites. <i>Macromolecules</i> , <b>2013</b> , 46, 2842-2855	5.5	38

250	Signature of a type-A glass transition and intrinsic confinement effects in a binary glass-forming system. <i>Physical Review Letters</i> , <b>2012</b> , 109, 035702	7.4	37
249	Quasielastic neutron scattering study of hydrogen motions in an aqueous poly(vinyl methyl ether) solution. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 204906	3.9	37
248	Molecular dynamics of a short-range ordered smectic phase nanoconfined in porous silicon. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 064902	3.9	35
247	Dynamics of weakly connected solids: Silica aerogels. <i>Physical Review Letters</i> , <b>1990</b> , 64, 2316-2319	7.4	35
246	Quasielastic Neutron Scattering Study on the Dynamics of Poly(alkylene oxide)s. <i>Macromolecules</i> , <b>2012</b> , 45, 4394-4405	5.5	34
245	Structure and dynamics of reverse micelles containing supercooled water investigated by neutron scattering. <i>Physical Review E</i> , <b>2009</b> , 79, 031404	2.4	34
244	Quasielastic Neutron Scattering Study on the Effect of Blending on the Dynamics of Head-to-Head Poly(propylene) and Poly(ethylene-propylene). <i>Macromolecules</i> , <b>2006</b> , 39, 1060-1072	5.5	34
243	Nd <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> : An all-in/all-out pyrochlore magnet with no divergence-free field and anomalously slow paramagnetic spin dynamics. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	33
242	Polymer Chain Dynamics of Core-Shell Thermosensitive Microgels. <i>Macromolecules</i> , <b>2008</b> , 41, 4739-4745	5.5	33
241	Structural, magnetic, electronic and transport properties of NdCu <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , <b>1991</b> , 3, 9297-9318	1.8	33
240	Crystal field spectroscopy by inelastic neutron scattering. <i>European Physical Journal B</i> , <b>1986</b> , 63, 213-230	1.2	33
239	Component dynamics in polyvinylpyrrolidone concentrated aqueous solutions. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 084902	3.9	32
238	Dynamics of water confined to reverse AOT micelles. <i>Soft Matter</i> , <b>2011</b> , 7, 5745	3.6	32
237	Molecular dynamics in glass-forming poly(phenyl methyl siloxane) as investigated by broadband thermal, dielectric and neutron spectroscopy. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 3853-3861	3.9	32
236	Pressure dependence of the segmental relaxation of polybutadiene and polyisobutylene and influence of molecular weight. <i>Chemical Physics</i> , <b>2003</b> , 292, 311-323	2.3	32
235	Influence of density and temperature on the microscopic structure and the segmental relaxation of polybutadiene. <i>Physical Review E</i> , <b>2003</b> , 67, 051801	2.4	32
234	Methyl Group Dynamics in Poly(methyl methacrylate): From Quantum Tunneling to Classical Hopping. <i>Macromolecules</i> , <b>2001</b> , 34, 4886-4896	5.5	32
233	Perfluorinated surfactants as model charged systems for understanding the effect of confinement on proton transport and water mobility in fuel cell membranes. A study by QENS. <i>European Physical Journal: Special Topics</i> , <b>2010</b> , 189, 205-216	2.3	31

232	Structure and dynamics in polymer/layered silicate nanocomposites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2008</b> , 152, 33-39	3.1	31
231	A high resolution, inelastic neutron scattering investigation of tunnelling methyl groups in aspirin. <i>Chemical Physics Letters</i> , <b>1996</b> , 258, 187-193	2.5	31
230	Thermotropic orientational order of discotic liquid crystals in nanochannels: an optical polarimetry study and a Landau-de Gennes analysis. <i>Soft Matter</i> , <b>2014</b> , 10, 4522-34	3.6	30
229	The new backscattering spectrometer IN16 at the ILL. <i>Physica B: Condensed Matter</i> , <b>1997</b> , 234-236, 1177-1179	2.8	30
228	Relation between static short-range order and dynamic heterogeneities in a nanoconfined liquid crystal. <i>Physical Review E</i> , <b>2008</b> , 78, 040701	2.4	30
227	Boson peak and fast relaxation process near the glass transition in polystyrene. <i>Colloid and Polymer Science</i> , <b>1995</b> , 273, 413-420	2.4	30
226	Vibrational density of states of triphenylene based discotic liquid crystals: dependence on the length of the alkyl chain. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 7324-33	3.6	29
225	Does growing Canadian Western Hard Red Spring wheat under organic management alter its breadmaking quality?. <i>Renewable Agriculture and Food Systems</i> , <b>2007</b> , 22, 157-167	1.8	29
224	Quasielastic neutron scattering of poly(methyl phenyl siloxane) in the bulk and under severe confinement. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 144910	3.9	29
223	Economic and social impacts of organic production systems. <i>Canadian Journal of Plant Science</i> , <b>2007</b> , 87, 1037-1044	1	29
222	Magnetic excitations in CeCu <sub>2</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>1988</b> , 76-77, 415-416	2.8	29
221	Connection between slow and fast dynamics of molecular liquids around the glass transition. <i>Physical Review E</i> , <b>2010</b> , 82, 021508	2.4	28
220	Heterogeneous structure of poly(vinyl chloride) as the origin of anomalous dynamical behavior. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 1336-1350	3.9	28
219	Accelerated dynamics of supercooled glycerol in soft confinement. <i>Chemical Physics Letters</i> , <b>2009</b> , 475, 171-174	2.5	27
218	Structure and topology of silica aerogels. <i>Journal of Non-Crystalline Solids</i> , <b>1992</b> , 145, 105-112	3.9	27
217	Ground-state multiplet of rare-earth 3+ ions in R <sub>2</sub> Fe <sub>14</sub> B investigated by inelastic neutron scattering. <i>Physical Review B</i> , <b>1990</b> , 42, 3866-3876	3.3	27
216	Activation Energy of Organic Cation Rotation in CHNHPbI and CDNHPbI: Quasi-Elastic Neutron Scattering Measurements and First-Principles Analysis Including Nuclear Quantum Effects. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3969-3977	6.4	26
215	Effects of input management and crop diversity on non-renewable energy use efficiency of cropping systems in the Canadian Prairie. <i>European Journal of Agronomy</i> , <b>2011</b> , 34, 113-123	5	26

214	Molecular dynamics of n-hexane: a quasi-elastic neutron scattering study on the bulk and spatially nanochannel-confined liquid. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 124505	3.9	26
213	Structure and dynamics of polymer chains in hydrophilic nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 1658-1667	2.6	26
212	Glassy properties and viscous slowing down: An analysis of the correlation between nonergodicity factor and fragility. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 194513	3.9	26
211	Sub-Tg dynamics in polycarbonate by neutron scattering and its relation with secondary gamma relaxation. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 014907	3.9	26
210	Isotope effect on the rotational tunneling transitions of methyl groups in glassy polymers. <i>Physical Review B</i> , <b>1999</b> , 59, 5983-5986	3.3	26
209	Localized vibrations from clusters in quasicrystals. <i>Physical Review Letters</i> , <b>1993</b> , 71, 871-874	7.4	26
208	Investigation of the glass transition in polymers under the aspect of mode coupling predictions. <i>Journal of Non-Crystalline Solids</i> , <b>1991</b> , 131-133, 169-176	3.9	26
207	Effects of input management and crop diversity on economic returns and riskiness of cropping systems in the semi-arid Canadian Prairie. <i>Renewable Agriculture and Food Systems</i> , <b>2011</b> , 26, 208-223	1.8	25
206	Absence of annealing effect in the vibrational density of states in a glassforming polymer. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 3327-3331	3.9	25
205	Inelastic neutron scattering study of a glass-forming liquid in soft confinement. <i>Soft Matter</i> , <b>2008</b> , 4, 522-533	3.6	24
204	Segmental dynamics of disordered styrene- <i>b</i> -isoprene tetrablock copolymers. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 4707-4714	3.9	24
203	Inelastic neutron spectroscopy as a tool to investigate nanoconfined polymer systems. <i>Polymer</i> , <b>2016</b> , 105, 393-406	3.9	24
202	Interpenetrated PNIPAM-polythiophene microgels for nitro aromatic compound detection. <i>Langmuir</i> , <b>2009</b> , 25, 9579-84	4	23
201	Spring wheat genotypes differentially alter soil microbial communities and wheat breadmaking quality in organic and conventional systems. <i>Canadian Journal of Plant Science</i> , <b>2011</b> , 91, 485-495	1	22
200	Molecular dynamics of glycerol and glycerol-trehalose bioprotectant solutions nanoconfined in porous silicon. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 214502	3.9	22
199	Atomic motions in poly(vinyl methyl ether): A combined study by quasielastic neutron scattering and molecular dynamics simulations in the light of the mode coupling theory. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 204901	3.9	22
198	Influence of surface interactions on the dynamics of the glass former ortho-terphenyl confined in nanoporous silica. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 141, 11-18	2.3	22
197	Brillouin and Umklapp scattering in polybutadiene: comparison of neutron and x-ray scattering. <i>Physical Review E</i> , <b>1999</b> , 60, R2464-7	2.4	22

196	Microphase Separation of Binary Liquids Confined in Cylindrical Pores. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 9245-9252	3.8	22
195	Evidence of a one-dimensional thermodynamic phase diagram for simple glass-formers. <i>Nature Communications</i> , <b>2018</b> , 9, 518	17.4	21
194	Optimum velocity of a phase-space transformer for cold-neutron backscattering spectroscopy. <i>Journal of Applied Crystallography</i> , <b>2011</b> , 44, 467-472	3.8	21
193	The Role of Chain Length in Nonergodicity Factor and Fragility of Polymers. <i>Macromolecules</i> , <b>2010</b> , 43, 8977-8984	5.5	21
192	Study of the structure and dynamics of poly(vinyl pyrrolidone) by molecular dynamics simulations validated by quasielastic neutron scattering and x-ray diffraction experiments. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 054904	3.9	21
191	An analysis of the short and intermediate range order in several organic glass-forming liquids from the static structure factor under pressure. <i>Journal of Non-Crystalline Solids</i> , <b>1998</b> , 235-237, 367-374	3.9	21
190	Dynamics of Polyethersulfone Phenylene Rings: A Quasielastic Neutron Scattering Study. <i>Macromolecules</i> , <b>2005</b> , 38, 3999-4013	5.5	21
189	The fast relaxation process near the glass transition in amorphous polymers with different microstructure. <i>Journal of Non-Crystalline Solids</i> , <b>1994</b> , 172-174, 272-285	3.9	21
188	Phenylene ring dynamics in bisphenol-A-polysulfone by neutron scattering. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 423-36	3.9	20
187	Methyl group dynamics in glassy toluene: A neutron scattering study. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 8958-8966	3.9	20
186	Nuclear spin excitations in Nd <sub>2</sub> CuO <sub>4</sub> . <i>Physica B: Condensed Matter</i> , <b>2000</b> , 276-278, 252-253	2.8	20
185	Direct Observation of Oxide Ion Dynamics in La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> on the Nanosecond Timescale. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3020-3028	9.6	19
184	Consequence of excess configurational entropy on fragility: the case of a polymer-oligomer blend. <i>Physical Review Letters</i> , <b>2009</b> , 103, 185702	7.4	19
183	Supercooling of water confined in reverse micelles. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 104204	4.8	19
182	Local structure and glass transition of polybutadiene up to 4 GPa. <i>Physical Review E</i> , <b>2003</b> , 67, 010802	2.4	19
181	Inelastic fast relaxation in a weakly fragile polymer glass near T <sub>g</sub> . <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1993</b> , 201, 88-94	3.3	19
180	Glassy Dynamics of Polystyrene by Quasielastic Neutron Scattering. <i>Macromolecules</i> , <b>2011</b> , 44, 3161-3166	5.5	18
179	Direct evidence for the Nd magnetic ordering in NdMnO <sub>3</sub> from the hyperfine field splitting of Nd nuclear levels. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 126003	1.8	18



178	Comparison of the pressure and temperature dependence of the elastic incoherent scattering for the polymers polybutadiene and polyisobutylene. <i>Physica B: Condensed Matter</i> , <b>1999</b> , 266, 13-19	2.8	18
177	Hydrogen Diffusion in f.c.c. TiH <sub>x</sub> and YH <sub>x</sub> : Two Distinct Examples for Diffusion in a Concentrated Lattice Gas. <i>Europhysics Letters</i> , <b>1992</b> , 20, 117-123	1.6	18
176	Study of the glass transition of polybutadiene by neutron scattering <b>1989</b> , 164-171		18
175	A Study of the Glass Transition of Molecular Liquids as a Function of Pressure and Temperature. <i>Progress of Theoretical Physics Supplement</i> , <b>1997</b> , 126, 229-233		18
174	Neutron Scattering Reveals Enhanced Protein Dynamics in Concanavalin A Amyloid Fibrils. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 992-6	6.4	17
173	Vibrational and molecular dynamics of a nanoconfined liquid crystal. <i>European Physical Journal: Special Topics</i> , <b>2010</b> , 189, 251-255	2.3	17
172	Effect of blending on the methyl side group dynamics in poly(vinyl methyl ether). <i>Journal of Non-Crystalline Solids</i> , <b>1998</b> , 235-237, 233-236	3.9	17
171	Structure and dynamics in PEO nanocomposites. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 141, 267-271	2.3	17
170	Self-motion and the $\alpha$ -relaxation in glass-forming polymers. Molecular dynamic simulation and quasielastic neutron scattering results in polyisoprene. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, S1127-S1138	1.8	17
169	First inelastic neutron scattering studies on thin free standing polymer films. <i>European Physical Journal E</i> , <b>2003</b> , 12 Suppl 1, S93-6	1.5	17
168	Fast dynamics of H <sub>2</sub> O in hydrous aluminosilicate glasses studied with quasielastic neutron scattering. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	17
167	Polarized neutron scattering study of the kagome antiferromagnet SrCr <sub>8</sub> Ga <sub>4</sub> O <sub>19</sub> . <i>Physica B: Condensed Matter</i> , <b>1999</b> , 267-268, 139-141	2.8	17
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165	A flexible high speed pulse chopper system for an inverted neutron time-of-flight option on backscattering spectrometers. <i>Scientific Reports</i> , <b>2018</b> , 8, 13580	4.9	17
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23	Direct observation of electronic and nuclear ground state splitting in external magnetic field by inelastic neutron scattering on oxidized ferrocene and ferrocene containing polymers. <i>EPJ Web of Conferences</i> , <b>2015</b> , 83, 02001	0.3	1
22	Vibrational spectra of ferrocene, ferrocene-containing polymers and their oxidized compounds. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 554, 012008	0.3	1
21	Dynamics of channel-type inclusion compounds with guest linear alkyl chains. <i>Physica B: Condensed Matter</i> , <b>1997</b> , 234-236, 109-111	2.8	1
20	Characteristic lengths measured by incoherent elastic and quasielastic neutron scattering within the thermal hysteresis loop in a ferroelectric copolymer. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	1
19	Solvent diffusion in a gel when escaping the confining polymer cage. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 141, 273-276	2.3	1
18	Hydrogen dynamics in polyethersulfone: A quasielastic neutron scattering study in the high-momentum transfer region. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 4610-4614	3.9	1
17	Dynamics of the PEOBPOBEO tri-block-copolymer L31 investigated by quasielastic neutron scattering. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 385-386, 252-255	2.8	1

16	Poly(methyl phenyl siloxane) in Random Nanoporous Glasses: Molecular Dynamics and Structure. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 790, 1		1
15	Comparison between light and neutron inelastic scatterings. The frequency linear behaviour of the light-vibration coupling coefficient. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1993</b> , 201, 257-262	2.3	1
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13	Microscopic dynamics of highly permeable super glassy polynorbornenes revealed by quasielastic neutron scattering. <i>Journal of Membrane Science</i> , <b>2022</b> , 642, 119972	9.6	1
12	Influence of water on the microscopic dynamics of 1-butyl-3-methylimidazolium tetrafluoroborate studied by means of quasielastic neutron scattering.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 084505	3.9	1
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10	Magnetic excitation spectra of NdCu <sub>2</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>1998</b> , 177-181, 1050-1051	0.8	0
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