

# Michihiro Nagao

## List of Publications by Year in descending order

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113  
papers

2,796  
citations

185998

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113  
docs citations

113  
times ranked

2264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions, Diffusion, and Membrane Fluctuations in Concentrated Unilamellar Lipid Vesicle Solutions. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	4
2	Effect of encapsulated protein on the dynamics of lipid sponge phase: a neutron spin echo and molecular dynamics simulation study. <i>Nanoscale</i> , 2022, , .	2.8	5
3	Probing the Link between Pancreatistatin and Mitochondrial Apoptosis through Changes in the Membrane Dynamics on the Nanoscale. <i>Molecular Pharmaceutics</i> , 2022, 19, 1839-1852.	2.3	4
4	Relevance of hydrogen bonded associates to the transport properties and nanoscale dynamics of liquid and supercooled 2-propanol. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7220-7232.	1.3	5
5	Measuring Membrane Dynamics on the Mesoscale. <i>Biophysical Journal</i> , 2021, 120, 101a.	0.2	0
6	Lipid Sponge Phase as a Matrix for Enzyme Encapsulation: Structure and Dynamics. <i>Biophysical Journal</i> , 2021, 120, 39a.	0.2	0
7	Conformational dynamics of a multidomain protein by neutron scattering and computational analysis. <i>Biophysical Journal</i> , 2021, 120, 3341-3354.	0.2	8
8	Relationship between Viscosity and Acyl Tail Dynamics in Lipid Bilayers. <i>Physical Review Letters</i> , 2021, 127, 078102.	2.9	22
9	Collective dynamics in lipid membranes containing transmembrane peptides. <i>Soft Matter</i> , 2021, 17, 5671-5681.	1.2	10
10	Structural and Dynamical Roles of Bound Polymer Chains in Rubber Reinforcement. <i>Macromolecules</i> , 2021, 54, 11032-11046.	2.2	17
11	Interleaflet coupling of <i>n</i> -alkane incorporated bilayers. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5418-5426.	1.3	14
12	Transverse lipid organization dictates bending fluctuations in model plasma membranes. <i>Nanoscale</i> , 2020, 12, 1438-1447.	2.8	28
13	Structure and dynamics of lipid membranes interacting with antivirulence end-phosphorylated polyethylene glycol block copolymers. <i>Soft Matter</i> , 2020, 16, 983-989.	1.2	10
14	Enhanced dynamics in the anomalous melting regime of DMPC lipid membranes. <i>Structural Dynamics</i> , 2020, 7, 054704.	0.9	6
15	Scaling relationships for the elastic moduli and viscosity of mixed lipid membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23365-23373.	3.3	53
16	A Mechanical Mechanism for Vitamin E Acetate in E-cigarette/Vaping-Associated Lung Injury. <i>Chemical Research in Toxicology</i> , 2020, 33, 2432-2440.	1.7	34
17	How cholesterol stiffens unsaturated lipid membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21896-21905.	3.3	212
18	Effect of gold nanoparticle incorporation into oil-swollen surfactant lamellar membranes. <i>Structural Dynamics</i> , 2020, 7, 065102.	0.9	2

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19	Tailoring Biomimetic Phosphorylcholine-Containing Block Copolymers as Membrane-Targeting Cellular Rescue Agents. <i>Biomacromolecules</i> , 2019, 20, 3385-3391.	2.6	11
20	Membrane softening by nonsteroidal anti-inflammatory drugs investigated by neutron spin echo. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20211-20218.	1.3	23
21	Scaling of lipid membrane rigidity with domain area fraction. <i>Soft Matter</i> , 2019, 15, 2762-2767.	1.2	14
22	Collective Mesoscale Dynamics of Liquid 1-Dodecanol Studied by Neutron Spin-Echo Spectroscopy with Isotopic Substitution and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2019, 123, 239-246.	1.2	11
23	A Telescoping View of Solute Architectures in a Complex Fluid System. <i>ACS Central Science</i> , 2019, 5, 85-96.	5.3	48
24	4. Collective dynamics in model biological membranes measured by neutron spin echo spectroscopy. , 2019, , 131-176.		6
25	Conformations of Ring Polystyrenes in Bulk Studied by SANS. <i>Macromolecules</i> , 2018, 51, 1539-1548.	2.2	35
26	Interphase Structures and Dynamics near Nanofiller Surfaces in Polymer Solutions. <i>Macromolecules</i> , 2018, 51, 9462-9470.	2.2	21
27	Phospholipid Bilayer Softening Due to Hydrophobic Gold Nanoparticle Inclusions. <i>Langmuir</i> , 2018, 34, 13416-13425.	1.6	21
28	Conformations of Ring Polystyrenes in Semidilute Solutions and in Linear Polymer Matrices Studied by SANS. <i>Macromolecules</i> , 2018, 51, 6836-6847.	2.2	26
29	The Synergistic Effects of Lipids and Peptides on Membrane Dynamics. <i>Biophysical Journal</i> , 2017, 112, 381a.	0.2	0
30	Decoupling between the Temperature-Dependent Structural Relaxation and Shear Viscosity of Concentrated Lithium Electrolyte. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8767-8773.	1.2	6
31	Probing Elastic and Viscous Properties of Phospholipid Bilayers Using Neutron Spin Echo Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4679-4684.	2.1	100
32	Processing-structure relationships of poly(ethylene glycol)-modified liposomes. <i>Soft Matter</i> , 2017, 13, 5228-5232.	1.2	12
33	Effect of interlamellar interactions on shear induced multilamellar vesicle formation. <i>Journal of Chemical Physics</i> , 2017, 147, 034905.	1.2	10
34	Effect of charge on the mechanical properties of surfactant bilayers. <i>Soft Matter</i> , 2016, 12, 9383-9390.	1.2	21
35	Neutron Polarization Analysis for Biphasic Solvent Extraction Systems. <i>Solvent Extraction and Ion Exchange</i> , 2016, 34, 399-406.	0.8	6
36	Mechanism of Spontaneous Blebbing Motion of an Oil-Water Interface: Elastic Stress Generated by a Lamellar-Lamellar Transition. <i>Langmuir</i> , 2016, 32, 2891-2899.	1.6	9

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37	Relationship between Structural Relaxation, Shear Viscosity, and Ionic Conduction of LiPF <sub>6</sub> /Propylene Carbonate Solutions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15675-15682.	1.2	16
38	Nanostructures and Dynamics of Macromolecules Bound to Attractive Filler Surfaces. <i>ACS Macro Letters</i> , 2015, 4, 838-842.	2.3	51
39	Tuning Membrane Thickness Fluctuations in Model Lipid Bilayers. <i>Biophysical Journal</i> , 2015, 109, 106-112.	0.2	45
40	Observation of Small Cluster Formation in Concentrated Monoclonal Antibody Solutions and Its Implications to Solution Viscosity. <i>Biophysical Journal</i> , 2014, 106, 1763-1770.	0.2	146
41	Spontaneous Motion of the Oil-water Interface Induced by the Generation of Surfactant Aggregates. <i>Hamon</i> , 2014, 24, 244-249.	0.0	0
42	Thickness Fluctuations in Surfactant Bilayers. <i>Hamon</i> , 2014, 24, 258-261.	0.0	0
43	Heterogeneous Slow Dynamics of Imidazolium-Based Ionic Liquids Studied by Neutron Spin Echo. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2773-2781.	1.2	122
44	Membrane formation by preferential solvation of ions in mixture of water, 3-methylpyridine, and sodium tetraphenylborate. <i>Journal of Chemical Physics</i> , 2013, 139, 234905.	1.2	29
45	Phase Transition and Dynamics of Water Confined in Hydroxyethyl Copper Rubeanate Hydrate. <i>Journal of the Physical Society of Japan</i> , 2013, 82, SA010.	0.7	2
46	The Effect of Tetraphenylphosphonium Chloride on Phase Behavior and Nanoscale Structures in a Mixture of D <sub>2</sub> O and 3-Methylpyridine. <i>Chemistry Letters</i> , 2012, 41, 1075-1077.	0.7	11
47	Lipid Bilayers and Membrane Dynamics: Insight into Thickness Fluctuations. <i>Physical Review Letters</i> , 2012, 109, 058102.	2.9	103
48	Effect of charged lidocaine on static and dynamic properties of model bio-membranes. <i>Biophysical Chemistry</i> , 2012, 160, 20-27.	1.5	25
49	Experiences in the US. <i>Hamon</i> , 2012, 22, 43-45.	0.0	0
50	Interlayer distance dependence of thickness fluctuations in a swollen lamellar phase. <i>Soft Matter</i> , 2011, 7, 6598.	1.2	28
51	Quasi-Elastic Neutron Scattering Studies on Dynamics of Water Confined in Nanoporous Copper Rubeanate Hydrates. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13563-13569.	1.2	25
52	2D-Ising-like critical behavior in mixtures of water and 3-methylpyridine including antagonistic salt or ionic surfactant. <i>Soft Matter</i> , 2011, 7, 1334-1340.	1.2	36
53	Temperature and scattering contrast dependencies of thickness fluctuations in surfactant membranes. <i>Journal of Chemical Physics</i> , 2011, 135, 074704.	1.2	12
54	Observation of local thickness fluctuations in surfactant membranes using neutron spin echo. <i>Physical Review E</i> , 2009, 80, 031606.	0.8	41

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55	Bending elasticity of saturated and monounsaturated phospholipid membranes studied by the neutron spin echo technique. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 155104.	0.7	54
56	Evaluation of incoherent scattering intensity by transmission and sample thickness. <i>Journal of Applied Crystallography</i> , 2009, 42, 621-628.	1.9	28
57	Detector area expansion at INSE neutron spin echo spectrometer. <i>Physica B: Condensed Matter</i> , 2009, 404, 2607-2610.	1.3	1
58	Full fitting analysis of the relative intermediate form factor measured by neutron spin echo. <i>Physica B: Condensed Matter</i> , 2009, 404, 2603-2606.	1.3	0
59	Dynamics of polyrotaxane investigated by neutron spin echo. <i>Physica B: Condensed Matter</i> , 2009, 404, 2600-2602.	1.3	22
60	Mechanically Interlocked Structure of Polyrotaxane Investigated by Contrast Variation Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2009, 42, 6327-6329.	2.2	26
61	Dynamics in Multicomponent Polyelectrolyte Solutions. <i>Macromolecules</i> , 2009, 42, 1293-1299.	2.2	11
62	Bending modulus of lipid bilayers in a liquid-crystalline phase including an anomalous swelling regime estimated by neutron spin echo experiments. <i>European Physical Journal E</i> , 2008, 26, 217-23.	0.7	42
63	Development of $\lambda/2$ and $\lambda/4$ flippers for a neutron spin echo spectrometer. <i>Journal of Neutron Research</i> , 2007, 15, 83-89.	0.4	1
64	Heterogeneity of acetonitrile-water mixtures in the temperature range 279-307 K studied by small-angle neutron scattering technique. <i>Journal of Molecular Liquids</i> , 2007, 136, 147-155.	2.3	36
65	Long-range periodic structure induced by coupling of the solvation effect and concentration fluctuation in water and 3-methylpyridine with salts. <i>Chemical Physics Letters</i> , 2006, 426, 61-65.	1.2	16
66	Viscoelastic effects on early stage of spinodal decomposition in dynamically asymmetric polymer blends. <i>Journal of Chemical Physics</i> , 2006, 124, 104904.	1.2	12
67	Evaluation of Incoherent Neutron Scattering from Softmatter. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 2728-2736.	0.7	63
68	Concentration fluctuations and cluster dynamics of 2-butoxyethanol-water mixtures by small-angle neutron scattering and neutron spin echo techniques. <i>Journal of Molecular Liquids</i> , 2005, 119, 125-131.	2.3	23
69	Upgrade of the 32 m small-angle neutron scattering instrument SANS-U. <i>Journal of Applied Crystallography</i> , 2005, 38, 1035-1037.	1.9	90
70	SAXS, SANS and NSE Studies on Unbound State in DPPC/Water/CaCl <sub>2</sub> System. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 2853-2859.	0.7	43
71	Effect of Confinement on Membrane Undulation in a Swollen Lamellar Phase. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 875-877.	0.7	14
72	Small-angle neutron-scattering study on a structure of microemulsion mixed with polymer networks. <i>Journal of Chemical Physics</i> , 2005, 123, 144909.	1.2	5

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73	Pressure-induced hexagonal phase in a ternary microemulsion system composed of a nonionic surfactant, water, and oil. <i>Journal of Chemical Physics</i> , 2005, 123, 054705.	1.2	11
74	Temperature- and Pressure-dependences of a Bending Modulus of Surfactant Monolayers in a Ternary Microemulsion Composed of AOT / D2O / decane. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0
75	Droplet density dependences of the static and dynamic structures in a ternary microemulsion system. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0
76	Effect of ionization on the temperature- and pressure-induced phase transitions of poly(N-isopropylacrylamide) gels. <i>Journal of Chemical Physics</i> , 2004, 121, 9708-9715.	1.2	17
77	SANS Study on Pressure-Induced Phase Separation of Poly(N-isopropylacrylamide) Aqueous Solutions and Gels. <i>Macromolecules</i> , 2004, 37, 2909-2918.	2.2	93
78	Small-Angle Neutron Scattering Investigation of Pressure Influence on the Structure of Weakly Charged Poly(N-isopropylacrylamide) Solutions and Gels. <i>Macromolecules</i> , 2004, 37, 8721-8729.	2.2	29
79	Complex microphase separation and microdomain structures in polyisoprene-block-poly(D8-styrene)-block-poly(vinyl methyl ether) triblock terpolymer. <i>Journal of Applied Crystallography</i> , 2003, 36, 708-712.	1.9	5
80	Viscoelastic effects in dynamics of concentration fluctuations in dynamically asymmetric polymer blends. <i>Journal of Applied Crystallography</i> , 2003, 36, 642-645.	1.9	8
81	Fast and Slow Dynamics of Water-Soluble Dendrimers Consisting of Amido-Amine Repeating Units by Neutron Spin Echo. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1353-1359.	1.2	17
82	Small-Angle Neutron Scattering Investigations of Layered Block Dendrimers in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1532-1539.	1.2	22
83	Temperature- and Pressure-dependences of Shape Fluctuations in a Ternary Microemulsion System. <i>Journal of Neutron Research</i> , 2002, 10, 131-136.	0.4	13
84	Neutron Spin Echo Studies on Poly(Vinyl Alcohol) Gel in a Mixture of Dimethyl Sulfoxide and Water. <i>Journal of Neutron Research</i> , 2002, 10, 149-153.	0.4	6
85	Quantitative analysis of copolymer-balls in aqueous solutions by small-angle neutron scattering. <i>Macromolecular Research</i> , 2002, 10, 311-317.	1.0	9
86	Slow dynamics of n-butoxyethanol-water mixture by neutron spin echo technique. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s386-s388.	1.1	4
87	Neutron spin echo studies of the effects of temperature and pressure in a ternary microemulsion. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s534-s536.	1.1	4
88	Large-Angle X-ray Scattering and Small-Angle Neutron Scattering Study on Phase Separation of Acetonitrile-Water Mixtures by Addition of NaCl. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6236-6245.	1.2	66
89	Neutron Spin Echo Studies on Effects of Temperature and Pressure In Dynamics of A Ternary Microemulsion. <i>Studies in Surface Science and Catalysis</i> , 2001, 132, 209-212.	1.5	1
90	Hydrodynamic interactions in the structural fluctuation of a ternary amphiphilic system C12E5/water/n-octane. <i>European Physical Journal E</i> , 2001, 5, 329-336.	0.7	8

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91	Dynamical fluctuation of the mesoscopic structure in ternary C12E5-water-n-octane amphiphilic system. <i>Physical Review E</i> , 2001, 63, 041402.	0.8	48
92	Pressure-induced structural phase transition of dense droplet microemulsions studied by small-angle x-ray scattering. <i>Journal of Chemical Physics</i> , 2001, 115, 9496-9502.	1.2	22
93	Effects of temperature and pressure on phase transitions in a ternary microemulsion system. <i>Journal of Chemical Physics</i> , 2001, 115, 10036-10044.	1.2	34
94	Small-Angle Neutron Scattering Study on Aggregation in Acetonitrile-D <sub>2</sub> O and Acetonitrile-D <sub>2</sub> O-NaCl Mixtures. <i>Chemistry Letters</i> , 2000, 29, 878-879.	0.7	13
95	Temperature and pressure effects on structural formations in a ternary microemulsion. <i>Journal of Applied Crystallography</i> , 2000, 33, 653-656.	1.9	11
96	Pressure and temperature effects on the phase transition from a dense droplet to a lamellar structure in a ternary microemulsion. <i>Journal of Chemical Physics</i> , 2000, 112, 10608-10614.	1.2	43
97	Interface between a Polysulfone and Polyamide As Studied by Combined Neutron Reflectivity and Small-Angle Neutron Scattering Techniques. <i>Macromolecules</i> , 2000, 33, 8375-8387.	2.2	12
98	Neutron Spin Echo Study of the Dynamic Behavior of Amphiphilic Diblock Copolymer Micelles in Aqueous Solution. <i>Langmuir</i> , 2000, 16, 9177-9185.	1.6	24
99	Neutron spin echo studies on structural phase transitions induced by temperature and pressure in a ternary microemulsion. , 1999, , .		2
100	A Pressure-Induced Phase Transition in a Ternary Microemulsion with an Assembly of a New High-Pressure Cell and Small-Angle X-Ray Scattering Apparatus. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 951-956.	0.8	10
101	Small-angle neutron scattering study of a pressure-induced phase transition in a ternary microemulsion composed of AOT, D <sub>2</sub> O, and n-decane. <i>Physical Review E</i> , 1999, 59, 3169-3176.	0.8	26
102	Dynamics of w/o AOT microemulsions studied by neutron spin echo. <i>Journal of Physics and Chemistry of Solids</i> , 1999, 60, 1359-1361.	1.9	23
103	Temperature- and pressure-induced phase transition in a ternary microemulsion system. <i>Journal of Physics and Chemistry of Solids</i> , 1999, 60, 1363-1365.	1.9	5
104	Neutron spin echo investigations of membrane undulations in complex fluids involving amphiphiles. <i>Journal of Physics and Chemistry of Solids</i> , 1999, 60, 1375-1377.	1.9	72
105	Improvement of neutron spin echo spectrometer at C2-2 of JRR3M. <i>Journal of Physics and Chemistry of Solids</i> , 1999, 60, 1599-1601.	1.9	16
106	Internal structural change of ganglioside micelle depending on temperature observed by neutron solvent contrast variation. <i>Journal of Physics and Chemistry of Solids</i> , 1999, 60, 1297-1299.	1.9	2
107	Neutron spin echo studies on dynamics of polymeric micelles. <i>Journal of Physics and Chemistry of Solids</i> , 1999, 60, 1367-1369.	1.9	5
108	Collective motions of a network of wormlike micelles. <i>Journal of Physics and Chemistry of Solids</i> , 1999, 60, 1371-1373.	1.9	18

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109	Two Concentric Protein Shell Structure with Spikes of Silkworm Bombyx mori Cytoplasmic Polyhedrosis Virus Revealed by Small-Angle Neutron Scattering Using the Contrast Variation Method. Journal of Biochemistry, 1999, 125, 916-922.	0.9	5
110	High Pressure Cell for Small-Angle Neutron and Light Scattering Studies of Phase Transitions in Complex Liquids. Polymer Journal, 1997, 29, 931-939.	1.3	25
111	Small angle neutron scattering measurements of a nanostructured Mg <sub>2</sub> Ni-D system. Physica B: Condensed Matter, 1996, 226, 370-374.	1.3	12
112	Crossover from mean field to three-dimensional Ising critical behavior in a three-component microemulsion system. Physical Review E, 1996, 54, 629-633.	0.8	38
113	Structural evolution and microscopic interactions in a three-component amphiphilic microemulsion system. Journal of Chemical Physics, 1996, 105, 3264-3277.	1.2	24