

# Tomohisa Norisuye

## List of Publications by Year in descending order

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102  
papers

2,329  
citations

201385

27  
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233125

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107  
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107  
docs citations

107  
times ranked

1631  
citing authors

#	ARTICLE	IF	CITATIONS
1	Latex agglutination analysis by novel ultrasound scattering techniques. <i>Ultrasonics</i> , 2022, 119, 106581.	2.1	1
2	Viscoelastic ECAH: Scattering analysis of spherical particles in suspension with viscoelasticity. <i>Ultrasonics</i> , 2021, 115, 106463.	2.1	7
3	Interfacial structures of particle-stabilized emulsions examined by ultrasonic scattering analysis with a core-shell model. <i>Ultrasonics</i> , 2021, 116, 106510.	2.1	3
4	Patterning Silver Nanowires by Inducing Transient Concentration Gradients in Reaction Mixtures. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 60462-60470.	4.0	3
5	Nanocrystals Assembled by the Chemical Reaction of the Dispersion Solvent. <i>Angewandte Chemie</i> , 2020, 132, 13186-13192.	1.6	0
6	Particle size distribution analysis of oil-in-water emulsions using static and dynamic ultrasound scattering techniques. <i>Ultrasonics</i> , 2020, 108, 106117.	2.1	15
7	Nanocrystals Assembled by the Chemical Reaction of the Dispersion Solvent. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13086-13092.	7.2	4
8	Simultaneous measurements of ultrasound attenuation, phase velocity, thickness, and density spectra of polymeric sheets. <i>Ultrasonics</i> , 2019, 99, 105974.	2.1	15
9	Ultrasound attenuation and phase velocity of moderately concentrated silica suspensions. <i>Ultrasonics</i> , 2019, 93, 63-70.	2.1	8
10	Particle dynamics in sheared particulate suspensions. <i>AICHE Journal</i> , 2019, 65, 840-849.	1.8	2
11	Structures and dynamics of carbon-black in suspension probed by static and dynamic ultrasound scattering techniques. <i>Ultrasonics</i> , 2019, 94, 192-201.	2.1	2
12	Ultrasound attenuation and phase velocity of micrometer-sized particle suspensions with viscous and thermal losses. <i>Ultrasonics</i> , 2018, 83, 171-178.	2.1	22
13	Size distribution and elastic properties of thermo-responsive polymer gel microparticles in suspension probed by ultrasonic spectroscopy. <i>Ultrasonics</i> , 2018, 82, 31-38.	2.1	11
14	Conducting polymer networks synthesized by photopolymerization-induced phase separation. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2018, 9, 015009.	0.7	2
15	Effects of Nanowire Length on Charge Transport in Vertically Aligned Gold Nanowire Array Electrodes. <i>Langmuir</i> , 2018, 34, 15674-15680.	1.6	8
16	Structures and dynamics of microparticles in suspension studied using ultrasound scattering techniques. <i>Polymer International</i> , 2017, 66, 175-186.	1.6	11
17	Controlling the nano-deformation of polymer by a reversible photo-cross-linking reaction. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2017, 8, 025003.	0.7	3
18	Time-resolved ultrasonic spectroscopy for bubbles. <i>AICHE Journal</i> , 2017, 63, 4666-4672.	1.8	15

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19	Metal-Organic Coaxial Nanowire Array Electrodes Combining Large Energy Capacity and High Rate Capability. <i>ChemSusChem</i> , 2017, 10, 701-710.	3.6	9
20	Metal Nanowire-Based Hybrid Electrodes Exhibiting High Charge/Discharge Rates and Long-Lived Electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36350-36357.	4.0	8
21	Frozen Convenience Noodles: Use of Ultrasound to Study the Influence of Preparation Methods on Their Rheological Parameters. <i>Cereal Chemistry</i> , 2017, 94, 892-896.	1.1	10
22	Dynamics of nanometer- and submicrometer-sized particles in suspension probed by dynamic ultrasound scattering techniques. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	11
23	Applications of Mach-Zehnder Interferometry to Studies on Local Deformation of Polymers Under Photocuring. , 2017, , .		1
24	Formation of a Bi-Continuous Morphology Generated by Photopolymerization in a Ternary Polymer Blend. <i>Kobunshi Ronbunshu</i> , 2017, 74, 353-359.	0.2	0
25	A Novel Structural Analysis Technique for Particle Suspensions with the Size Ranging from Nanometers to Micrometers by Ultrasound Scattering. <i>Kobunshi Ronbunshu</i> , 2017, 74, 319-333.	0.2	0
26	Unidirectional Bi-Continuous Morphology of Polymer Blends Undergoing Photopolymerization-Induced Phase Separation by Computer-Assisted Irradiation (CAI) Method. <i>Kobunshi Ronbunshu</i> , 2017, 74, 233-238.	0.2	0
27	(Invited) Nanowire Electrodes for Electrochemical Capacitors and Nanoparticles for Current Conduction. <i>ECS Transactions</i> , 2016, 75, 11-15.	0.3	0
28	Investigating the Existence of Bulk Nanobubbles with Ultrasound. <i>ChemPhysChem</i> , 2016, 17, 2787-2790.	1.0	33
29	Dynamic sound scattering: Field fluctuation spectroscopy with singly scattered ultrasound in the near and far fields. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 1992-2001.	0.5	6
30	Determination of particle size distribution and elastic properties of silica microcapsules by ultrasound spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 07KC01.	0.8	20
31	Polymer networks with bicontinuous gradient morphologies resulting from the competition between phase separation and photopolymerization. <i>Soft Matter</i> , 2016, 12, 1820-1829.	1.2	14
32	Dynamics of micron-sized particles in dilute and concentrated suspensions probed by dynamic ultrasound scattering techniques. <i>Ultrasonics</i> , 2016, 65, 59-68.	2.1	14
33	Effects of the positive feedback loop in polymerization on the reaction-induced phase separation of polymer mixtures. <i>Chaos</i> , 2015, 25, 064305.	1.0	8
34	Fast Ion and Electron Transport in a Supercapacitor Based on Monolithic Nanowire-Array Electrodes Prepared from a Defect-Free Anodic Aluminium Oxide Mold. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500354.	1.9	11
35	Influence of Alkyl Chain Length in Methacrylate Monomers on the Phase Separation Induced by Photo-Polymerization. <i>Kobunshi Ronbunshu</i> , 2015, 72, 630-641.	0.2	2
36	Phase separation of polymer mixtures induced by light and heat: a comparative study by light scattering. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2015, 6, 045002.	0.7	6

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37	Sound velocity and attenuation coefficient of hard and hollow microparticle suspensions observed by ultrasound spectroscopy. <i>Ultrasonics</i> , 2015, 62, 186-194.	2.1	21
38	Effect of electrostatic interactions on the velocity fluctuations of settling microspheres. <i>Physics of Fluids</i> , 2015, 27, 013304.	1.6	6
39	Dynamics of submicron microsphere suspensions observed by dynamic ultrasound scattering techniques in the frequency-domain. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	16
40	Effects of molecular weight on the local deformation of photo-cross-linked polymer blends studied by Mach-Zehnder interferometry. <i>Polymer Journal</i> , 2014, 46, 819-822.	1.3	1
41	Effects of pulse repetition rate and incident beam energy on the dynamic ultrasound scattering data. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 07KC10.	0.8	13
42	Tricontinuous Morphology of Ternary Polymer Blends Driven by Photopolymerization: Reaction and Phase Separation Kinetics. <i>Macromolecules</i> , 2014, 47, 4380-4386.	2.2	32
43	The roles of the Trommsdorff-Norrish effect in phase separation of binary polymer mixtures induced by photopolymerization. <i>Polymer</i> , 2014, 55, 1809-1816.	1.8	35
44	A Novel Analysis Method for Structures and Properties of Soft Materials by Ultrasound. <i>Journal of the Japan Society of Colour Material</i> , 2014, 87, 19-24.	0.0	0
45	Formation of Hierarchically Structured Polymer Films via Multiple Phase Separation Mediated by Intermittent Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3978-3982.	2.1	16
46	Influences of wetting and shrinkage on the phase separation process of polymer mixtures induced by photopolymerization. <i>Soft Matter</i> , 2013, 9, 8428.	1.2	30
47	Origin of the anomalous decrease in the apparent density of polymer gels observed by multi-echo reflection ultrasound spectroscopy. <i>Ultrasonics</i> , 2013, 53, 973-978.	2.1	13
48	Fabrication and proton conductivity of sulfonated silica composites prepared by postoxidization of mercaptomethoxysilane. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3295-3302.	2.5	3
49	Collective motion of microspheres in suspensions observed by phase-mode dynamic ultrasound scattering technique. <i>Ultrasonics</i> , 2012, 52, 628-635.	2.1	19
50	Photoreaction-induced phase separation and morphology control in ternary IPNs blends involving 3D spherical dendrimer. <i>Soft Matter</i> , 2011, 7, 10556.	1.2	1
51	Phase separation of polymer mixtures driven by photochemical reactions: Complexity and fascination. <i>Current Opinion in Solid State and Materials Science</i> , 2011, 15, 254-261.	5.6	22
52	Formation and relaxation of the elastic strain generated by photocuring in polymer blends monitored by Mach-Zehnder interferometry. <i>Polymer</i> , 2011, 52, 739-745.	1.8	10
53	Simultaneous evaluation of ultrasound velocity, attenuation and density of polymer solutions observed by multi-echo ultrasound spectroscopy. <i>Ultrasonics</i> , 2011, 51, 215-222.	2.1	32
54	Polymer materials with spatially graded morphologies: preparation, characterization and utilization. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2010, 1, 043003.	0.7	8

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55	THE ROLES OF REACTION INHOMOGENEITY IN PHASE SEPARATION KINETICS AND MORPHOLOGY OF REACTIVE POLYMER BLENDS. Chinese Journal of Polymer Science (English Edition), 2009, 27, 23.	2.0	7
56	Simultaneous observation and analysis of sedimentation and floating motions of microspheres investigated by phase modeâ€“dynamic ultrasound scattering. Journal of Applied Physics, 2009, 105, .	1.1	17
57	Effects of Lightâ€“Induced Regularity on the Physical Properties of Multiphase Polymers. Macromolecular Materials and Engineering, 2009, 294, 163-168.	1.7	8
58	Physical Aging of Photo-Crosslinked Poly(ethyl acrylate) Observed in the Nanometer Scales by Mach-Zehnder Interferometry. Polymer Journal, 2009, 41, 260-265.	1.3	8
59	Light Scattering Study on the Mode-Selection Process in Reversible Phase Separation of a Photoreactive Polymer Mixture. Journal of Physical Chemistry B, 2009, 113, 14950-14956.	1.2	4
60	Dynamics of Microsphere Suspensions Probed by High-Frequency Dynamic Ultrasound Scattering. Macromolecules, 2009, 42, 752-759.	2.2	23
61	High Frequency Dynamic Ultrasound Scattering from Microsphere Suspensions. Polymer Journal, 2008, 40, 398-399.	1.3	22
62	Studies on Structural Characterization of Organic-Inorganic Proton Conductive Membranes. Kobunshi Ronbunshu, 2008, 65, 716-729.	0.2	3
63	Dynamic Sound Scattering Investigation of the Dynamics of Sheared Particulate Suspensions. AIP Conference Proceedings, 2008, , .	0.3	6
64	Studies on Microscopic Structure of Solâˆ“Gel Derived Nanohybrids Containing Heteropolyacid. Macromolecules, 2007, 40, 4165-4172.	2.2	20
65	Effects of Elastic Deformation on Phase Separation of a Polymer Blend Driven by a Reversible Photo-Cross-Linking Reaction. Macromolecules, 2007, 40, 5566-5574.	2.2	29
66	DLS and AFM Studies on the Cluster Evolution of Organically Modified Silica Gels Catalyzed by a Super Strong Acid. Macromolecules, 2007, 40, 3773-3778.	2.2	13
67	Effects of solvent on microstructure and proton conductivity of organicâ€“inorganic hybrid membranes. Polymer, 2007, 48, 5681-5687.	1.8	9
68	Autocatalytic phase separation and graded co-continuous morphology generated by photocuring. Soft Matter, 2006, 2, 149-156.	1.2	23
69	Phase Separation of Interpenetrating Polymer Networks Synthesized by Using an Autocatalytic Reaction. Macromolecules, 2006, 39, 9456-9466.	2.2	41
70	Interpenetrating Polymer Networks with Spatially Graded Morphology Controllable by UV-Radiation Curing. Macromolecular Symposia, 2006, 242, 157-164.	0.4	7
71	Ultrasonic Investigation of the Gelation Process of Poly(Acrylamide) Gels. Macromolecular Symposia, 2006, 242, 208-215.	0.4	16
72	Basic study of the gelation of dimethacrylate-type crosslinking agents. Journal of Polymer Science Part A, 2006, 44, 949-958.	2.5	14

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73	Designing a Polymer Blend with Phase Separation Tunable by Visible Light for Computer-Assisted Irradiation Experiments. <i>Macromolecular Rapid Communications</i> , 2006, 27, 758-762.	2.0	23
74	Real-time dynamic light scattering on gelation and vitrification. <i>Polymer</i> , 2005, 46, 2381-2388.	1.8	27
75	Comparison of the gelation dynamics for polystyrenes prepared by conventional and living radical polymerizations: a time-resolved dynamic light scattering study. <i>Polymer</i> , 2005, 46, 1982-1994.	1.8	92
76	Local deformation in photo-crosslinked polymer blends monitored by Mach-Zehnder interferometry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005, 43, 2898-2913.	2.4	16
77	Phase Separation of Polymer Mixtures Driven by Temporally and Spatially Periodic Forcing. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0
78	Controlling the morphology of polymer blends using periodic irradiation. <i>Nature Materials</i> , 2004, 3, 448-451.	13.3	76
79	Generation and Manipulation of Hierarchical Morphology in Interpenetrating Polymer Networks by Using Photochemical Reactions. <i>Macromolecules</i> , 2004, 37, 8495-8498.	2.2	54
80	Dynamic Inhomogeneities in Polymer Gels Investigated by Dynamic Light Scattering. <i>Macromolecules</i> , 2004, 37, 2944-2953.	2.2	45
81	An Examination of the Gelation of Methacrylate Type Crosslinking Agents for the Preparation of Polymer Monolith with 3D Ordered Network Structures. <i>Chemistry Letters</i> , 2004, 33, 1134-1135.	0.7	5
82	Studies on Two Types of Built-in Inhomogeneities for Polymer Gels: Frozen Segmental Concentration Fluctuations and Spatial Distribution of Cross-Links. <i>Macromolecules</i> , 2003, 36, 6202-6212.	2.2	84
83	Dynamic Light Scattering Studies on Network Formation of Bridged Polysilsesquioxanes Catalyzed by Polyoxometalates. <i>Macromolecules</i> , 2003, 36, 9935-9942.	2.2	15
84	Phase Separation of Polymer Blends Driven by Temporally and Spatially Periodic Forcing. <i>ACS Symposium Series</i> , 2003, , 276-290.	0.5	5
85	Gel Formation Analyses by Dynamic Light Scattering. <i>Bulletin of the Chemical Society of Japan</i> , 2002, 75, 641-659.	2.0	159
86	Small-Angle Neutron-Scattering Study on Preparation Temperature Dependence of Thermosensitive Gels. <i>Macromolecules</i> , 2002, 35, 4779-4784.	2.2	47
87	Dependence of shrinking kinetics of poly(N-isopropylacrylamide) gels on preparation temperature. <i>Polymer</i> , 2002, 43, 3101-3107.	1.8	61
88	Small angle neutron scattering studies on structural inhomogeneities in polymer gels: irradiation cross-linked gels vs chemically cross-linked gels. <i>Polymer</i> , 2002, 43, 5289-5297.	1.8	84
89	Time-Resolved Dynamic Light Scattering Study on Gelation and Gel-Melting Processes of Gelatin Gels. <i>Macromolecules</i> , 2001, 34, 8496-8502.	2.2	47
90	Real-time observation of gelation and vitrification. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	1

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91	Critical Dynamics of Cross-Linked Polymer Chains near the Gelation Threshold. <i>Macromolecules</i> , 2000, 33, 2909-2915.	2.2	49
92	Heat-Induced Gelation of $\beta^2$ -Lactoglobulin. 1. Time-Resolved Dynamic Light Scattering. <i>Macromolecules</i> , 2000, 33, 5470-5475.	2.2	58
93	Time-Resolved Dynamic Light Scattering Study on the Dynamics of Silica Gels during Gelation Process. <i>Macromolecules</i> , 2000, 33, 900-905.	2.2	68
94	Time-Resolved Dynamic Light Scattering Studies on Gelation Process of Organic-Inorganic Polymer Hybrids. <i>Macromolecules</i> , 1999, 32, 1528-1533.	2.2	46
95	Preparation Temperature Dependence and Effects of Hydrolysis on Static Inhomogeneities of Poly(acrylamide) Gels. <i>Macromolecules</i> , 1999, 32, 3989-3993.	2.2	50
96	Dynamics of silica gels in gelation process. , 1999, , .		1
97	Static inhomogeneities and dynamic fluctuations of temperature sensitive polymer gels. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 249, 245-252.	1.2	77

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