Hideyuki Nakanishi

List of Publications by Year
in descending order

59	1,385	331670 21	345221 36
papers	citations	h-index	g-index

65	65	65	2029
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoconductance and inverse photoconductance in films of functionalized metal nanoparticles. Nature, 2009, 460, 371-375.	27.8	239
2	Ultrasensitive detection of toxic cations through changes in the tunnelling current across films of striped nanoparticles. Nature Materials, 2012, 11, 978-985.	27.5	206
3	Generation and Manipulation of Hierarchical Morphology in Interpenetrating Polymer Networks by Using Photochemical Reactions. Macromolecules, 2004, 37, 8495-8498.	4.8	54
4	Correlating Material Transfer and Charge Transfer in Contact Electrification. Journal of Physical Chemistry C, 2018, 122, 16154-16160.	3.1	54
5	Supercapacitors Based on Metal Electrodes Prepared from Nanoparticle Mixtures at Room Temperature. Journal of Physical Chemistry Letters, 2010, 1, 1428-1431.	4.6	51
6	Phase separation of polymer mixtures driven by photochemical reactions: current status and perspectives. Polymer International, 2017, 66, 213-222.	3.1	51
7	Dynamic internal gradients control and direct electric currents within nanostructured materials. Nature Nanotechnology, 2011, 6, 740-746.	31.5	48
8	Phase Separation of Interpenetrating Polymer Networks Synthesized by Using an Autocatalytic Reaction. Macromolecules, 2006, 39, 9456-9466.	4.8	41
9	Interaction of Positively Charged Gold Nanoparticles with Cancer Cells Monitored by an in Situ Label-Free Optical Biosensor and Transmission Electron Microscopy. ACS Applied Materials & Interfaces, 2018, 10, 26841-26850.	8.0	39
10	The roles of the Trommsdorffâ€“Norrish effect in phase separation of binary polymer mixtures induced by photopolymerization. Polymer, 2014, 55, 1809-1816.	3.8	35
11	Chemically coded time-programmed self-assembly. Molecular Systems Design and Engineering, 2017, 2, 274-282.	3.4	35
12	Tricontinuous Morphology of Ternary Polymer Blends Driven by Photopolymerization: Reaction and Phase Separation Kinetics. Macromolecules, 2014, 47, 4380-4386.	4.8	32
13	Influences of wetting and shrinkage on the phase separation process of polymer mixtures induced by photopolymerization. Soft Matter, 2013, 9, 8428.	2.7	30
14	Effects of Elastic Deformation on Phase Separation of a Polymer Blend Driven by a Reversible Photo-Cross-Linking Reaction. Macromolecules, 2007, 40, 5566-5574.	4.8	29
15	Modelling the neuropathology of lysosomal storage disorders through disease-specific human induced pluripotent stem cells. Experimental Cell Research, 2019, 380, 216-233.	2.6	28
16	Autocatalytic phase separation and graded co-continuous morphology generated by photocuring. Soft Matter, 2006, 2, 149-156.	2.7	23
17	Designing a Polymer Blend with Phase Separation Tunable by Visible Light for Computer-Assisted Irradiation Experiments. Macromolecular Rapid Communications, 2006, 27, 758-762.	3.9	23
18	Eco-Friendly, Direct Deposition of Metal Nanoparticles on Graphite for Electrochemical Energy Conversion and Storage. ACS Applied Materials & Interfaces, 2019, 11, 36525-36534.	8.0	23

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19	Phase separation of polymer mixtures driven by photochemical reactions: Complexity and fascination. Current Opinion in Solid State and Materials Science, 2011, 15, 254-261.	11.5	22
20	Ultrasound attenuation and phase velocity of micrometer-sized particle suspensions with viscous and thermal losses. Ultrasonics, 2018, 83, 171-178.	3.9	22
21	Sound velocity and attenuation coefficient of hard and hollow microparticle suspensions observed by ultrasound spectroscopy. Ultrasonics, 2015, 62, 186-194.	3.9	21
22	Formation of Hierarchically Structured Polymer Films via Multiple Phase Separation Mediated by Intermittent Irradiation. Journal of Physical Chemistry Letters, 2013, 4, 3978-3982.	4.6	16
23	Dynamics of submicron microsphere suspensions observed by dynamic ultrasound scattering techniques in the frequency-domain. Journal of Applied Physics, 2014, 115, .	2.5	16
24	Simultaneous measurements of ultrasound attenuation, phase velocity, thickness, and density spectra of polymeric sheets. Ultrasonics, 2019, 99, 105974.	3.9	15
25	Particle size distribution analysis of oil-in-water emulsions using static and dynamic ultrasound scattering techniques. Ultrasonics, 2020, 108, 106117.	3.9	15
26	Dynamics of micron-sized particles in dilute and concentrated suspensions probed by dynamic ultrasound scattering techniques. Ultrasonics, 2016, 65, 59-68.	3.9	14
27	Existence of a Precipitation Threshold in the Electrostatic Precipitation of Oppositely Charged Nanoparticles. Angewandte Chemie - International Edition, 2018, 57, 16062-16066.	13.8	14
28	The Relationship between Static Charge and Shape. ACS Central Science, 2020, 6, 704-714.	11.3	14
29	Hexagonal phase induced by a reversible photo-cross-link reaction in a polymer mixture. Physical Review E, 2008, 77, 020801.	2.1	12
30	Fast Ion and Electron Transport in a Supercapacitor Based on Monolithic Nanowireâ€Array Electrodes Prepared from a Defectâ€Free Anodic Aluminium Oxide Mold. Advanced Materials Interfaces, 2015, 2, 1500354.	3.7	11
31	Dynamics of nanometer- and submicrometer-sized particles in suspension probed by dynamic ultrasound scattering techniques. Journal of Applied Physics, 2017, 122, .	2.5	11
32	Size distribution and elastic properties of thermo-responsive polymer gel microparticles in suspension probed by ultrasonic spectroscopy. Ultrasonics, 2018, 82, 31-38.	3.9	11
33	Self-Assembly of Charged Nanoparticles by an Autocatalytic Reaction Front. Langmuir, 2015, 31, 12019-12024.	3.5	10
34	Metalâ€“Organic Coaxial Nanowire Array Electrodes Combining Large Energy Capacity and High Rate Capability. ChemSusChem, 2017, 10, 701-710.	6.8	9
35	Reversible and Continuously Tunable Control of Charge of Close Surfaces. Journal of Physical Chemistry Letters, 2017, 8, 6142-6147.	4.6	9
36	Effects of Lightâ€Induced Regularity on the Physical Properties of Multiphase Polymers. Macromolecular Materials and Engineering, 2009, 294, 163-168.	3.6	8

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37	Metal Nanowire-Based Hybrid Electrodes Exhibiting High Charge/Discharge Rates and Long-Lived Electrocatalysis. ACS Applied Materials & Interfaces, 2017, 9, 36350-36357.	8.0	8
38	Effects of Nanowire Length on Charge Transport in Vertically Aligned Gold Nanowire Array Electrodes. Langmuir, 2018, 34, 15674-15680.	3.5	8
39	Ultrasound attenuation and phase velocity of moderately concentrated silica suspensions. Ultrasonics, 2019, 93, 63-70.	3.9	8
40	Interpenetrating Polymer Networks with Spatially Graded Morphology Controllable by UV-Radiation Curing. Macromolecular Symposia, 2006, 242, 157-164.	0.7	7
41	Viscoelastic ECAH: Scattering analysis of spherical particles in suspension with viscoelasticity. Ultrasonics, 2021, 115, 106463.	3.9	7
42	Self-assembly of like-charged nanoparticles into Voronoi diagrams. Physical Chemistry Chemical Physics, 2016, 18, 25735-25740.	2.8	6
43	Existence of a Precipitation Threshold in the Electrostatic Precipitation of Oppositely Charged Nanoparticles. Angewandte Chemie, 2018, 130, 16294-16298.	2.0	4
44	Graphiteâ€Aligned Ni/Ni(OH)₂ Nanowireâ€Based Aqueous Asymmetric Supercapacitors Exhibiting Excellent Cycle Stability, High Rate Performance, and Wide Operation Voltage. ChemistrySelect, 2019, 4, 13543-13550.	1.5	4
45	Nanocrystals Assembled by the Chemical Reaction of the Dispersion Solvent. Angewandte Chemie - International Edition, 2020, 59, 13086-13092.	13.8	4
46	Design of non-autonomous pH oscillators and the existence of chemical beat phenomenon in a neutralization reaction. Scientific Reports, 2021, 11, 11011.	3.3	3
47	Interfacial structures of particle-stabilized emulsions examined by ultrasonic scattering analysis with a coreâ€“shell model. Ultrasonics, 2021, 116, 106510.	3.9	3
48	Phase Separation and Morphology of Polymer Mixtures Driven by Light. Series in Sof Condensed Matter, 2009, , 171-195.	0.1	3
49	Patterning Silver Nanowires by Inducing Transient Concentration Gradients in Reaction Mixtures. ACS Applied Materials & Interfaces, 2021, 13, 60462-60470.	8.0	3
50	pH mediated kinetics of assembly and disassembly of molecular and nanoscopic building blocks. Reaction Kinetics, Mechanisms and Catalysis, 2018, 123, 323-333.	1.7	2
51	Structures and dynamics of carbon-black in suspension probed by static and dynamic ultrasound scattering techniques. Ultrasonics, 2019, 94, 192-201.	3.9	2
52	Photoreaction-induced phase separation and morphology control in ternary IPNs blends involving 3D spherical dendrimer. Soft Matter, 2011, 7, 10556.	2.7	1
53	Effects of molecular weight on the local deformation of photo-cross-linked polymer blends studied by Machâ€“Zehnder interferometry. Polymer Journal, 2014, 46, 819-822.	2.7	1
54	Metastable Nanoporous Palladium Evolving from Palladium Nanocrystals. ChemNanoMat, 0, , .	2.8	1

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55	Nanoparticle-Aerogel Composites: Nanoparticle-Loaded Aerogels and Layered Aerogels Cast from Sol-Gel Mixtures (Small 18/2011). Small, 2011, 7, 2542-2542.	10.0	0
56	Selective Reduction Sites on Commercial Graphite Foil for Building Multimetallic Nanoâ€Assemblies for Energy Conversion. ChemistrySelect, 2020, 5, 13269-13277.	1.5	0
57	Nanocrystals Assembled by the Chemical Reaction of the Dispersion Solvent. Angewandte Chemie, 2020, 132, 13186-13192.	2.0	0
58	Unidirectional Bi-Continuous Morphology of Polymer Blends Undergoing Photopolymerization-Induced Phase Separation by Computer-Assisted Irradiation (CAI) Method. Kobunshi Ronbunshu, 2017, 74, 233-238.	0.2	0
59	Self-Assembly of Graphene Oxide Flakes for Smart and Multifunctional Coating with Reversible Formation of Wrinkling Patterns. Soft Matter, 2022, , .	2.7	0