Mu-Ping Nieh

List of Publications by Year
in descending order

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112 papers	4,499 citations	126708 33 h-index	114278 63 g-index
112 all docs	112 docs citations	112 times ranked	5708 citing authors

#	Article	IF	Citations
1	Outer membrane vesicles (OMVs) enabled bioâ€applications: A critical review. Biotechnology and Bioengineering, 2022, 119, 34-47.	1.7	25
2	Head on Comparison of Selfâ€•and Nanoâ€Assemblies of Gamma Peptide Nucleic Acid Amphiphiles. Advanced Functional Materials, 2022, 32, 2109552.	7.8	8
3	Codelivery of Paclitaxel and Parthenolide in Discoidal Bicelles for a Synergistic Anticancer Effect: Structure Matters. Advanced NanoBiomed Research, 2022, 2, 2100080.	1.7	12
4	Changes Experienced by Low-Concentration Lipid Bicelles as a Function of Temperature. Langmuir, 2022, , .	1.6	3
5	Patchy metal nanoparticles with polymers: controllable growth and two-way self-assembly. Nanoscale, 2022, 14, 7364-7371.	2.8	7
6	Effect of drug-to-lipid ratio on nanodisc-based tenofovir drug delivery to the brain for HIV-1 infection. Nanomedicine, 2022, 17, 959-978.	1.7	5
7	Metalloâ€Helicoid with Double Rims: Polymerization Followed by Folding by Intramolecular Coordination. Angewandte Chemie, 2021, 133, 1301-1309.	1.6	2
8	Metalloâ€Helicoid with Double Rims: Polymerization Followed by Folding by Intramolecular Coordination. Angewandte Chemie - International Edition, 2021, 60, 1281-1289.	7.2	18
9	Multichannel hollow carbon fibers: Processing, structure, and properties. Carbon, 2021, 174, 730-740.	5.4	14
10	Aggregationâ€Enhanced Photoluminescence and Photoacoustics of Atomically Precise Gold Nanoclusters in Lipid Nanodiscs (NANO²). Advanced Functional Materials, 2021, 31, 2009750.	7.8	22
11	Nanocomplex made up of antimicrobial metallo-supramolecules and model biomembranes â€“ characterization and enhanced fluorescence. Nanoscale, 2021, 13, 14973-14979.	2.8	3
12	A Comprehensive Landscape for Fibril Association Behaviors Encoded Synergistically by Saccharides and Peptides. Journal of the American Chemical Society, 2021, 143, 6622-6633.	6.6	19
13	Structural Engineering in the Self-Assembly of Amphiphilic Block Copolymers with Reactive Additives: Micelles, Vesicles, and Beyond. Langmuir, 2021, 37, 9865-9872.	1.6	7
14	Dual-Modality Poly-<scp>l</scp>-histidine Nanoparticles to Deliver Peptide Nucleic Acids and Paclitaxel for In Vivo Cancer Therapy. ACS Applied Materials & Interfaces, 2021, 13, 45244-45258.	4.0	15
15	Flower-like Micelles of Polyethylene Oxide End-Capped with Cholesterol. Macromolecules, 2021, 54, 8960-8970.	2.2	5
16	DNA-Mediated Step-Growth Polymerization of Bottlebrush Macromonomers. Journal of the American Chemical Society, 2020, 142, 10297-10301.	6.6	16
17	Templated Supramolecular Structures of Multichromic, Multiresponsive Perylene Diimide-Polydiacetylene Films. Macromolecules, 2020, 53, 4501-4510.	2.2	17
18	Bicelles Rich in both Sphingolipids and Cholesterol and Their Use in Studies of Membrane Proteins. Journal of the American Chemical Society, 2020, 142, 12715-12729.	6.6	29

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19	Glycosyltransferase-Induced Morphology Transition of Glycopeptide Self-Assemblies with Proteoglycan Residues. ACS Macro Letters, 2020, 9, 929-936.	2.3	10
20	Refining internal bilayer structure of bicelles resolved by extended-q small angle X-ray scattering. Chemistry and Physics of Lipids, 2020, 231, 104945.	1.5	10
21	Crystalline Mesoporous Complex Oxides: Porosityâ€Controlled Electromagnetic Response. Advanced Functional Materials, 2020, 30, 1909491.	7.8	15
22	Effects of fluidity and charge density on the morphology of a bicellar mixture â€“ A SANS study. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183315.	1.4	10
23	Correlation of the hierarchical structure with rheological behavior of polypseudorotaxane gel composed of pluronic and Î²-cyclodextrin. Soft Matter, 2020, 16, 4990-4998.	1.2	0
24	Chemically Controlled Helical Polymorphism in Protein Tubes by Selective Modulation of Supramolecular Interactions. Journal of the American Chemical Society, 2019, 141, 19448-19457.	6.6	34
25	Assembling Pentatopic Terpyridine Ligands with Three Types of Coordination Moieties into a Giant Supramolecular Hexagonal Prism: Synthesis, Self-Assembly, Characterization, and Antimicrobial Study. Journal of the American Chemical Society, 2019, 141, 16108-16116.	6.6	63
26	Directed polymorphism and mechanofluorochromism of conjugated materials through weak non-covalent control. Journal of Materials Chemistry C, 2019, 7, 8316-8324.	2.7	27
27	A universal discoidal nanoplatform for the intracellular delivery of PNAs. Nanoscale, 2019, 11, 12517-12529.	2.8	24
28	Combinational Effects of Active Targeting, Shape, and Enhanced Permeability and Retention for Cancer Theranostic Nanocarriers. ACS Applied Materials & Interfaces, 2019, 11, 10505-10519.	4.0	83
29	Genetically engineered bio-nanoparticles with co-expressed enzyme reporter and recognition element for IgG immunoassay. Sensors and Actuators Reports, 2019, 1, 100003.	2.3	8
30	Genetically Engineered Bacterial Outer Membrane Vesicles with Expressed Nanoluciferase Reporter for in Vivo Bioluminescence Kinetic Modeling through Noninvasive Imaging. ACS Applied Bio Materials, 2019, 2, 5608-5615.	2.3	15
31	Reversible mechanofluorochromism of aniline-terminated phenylene ethynylenes. Chemical Science, 2018, 9, 5415-5426.	3.7	35
32	What causes the anomalous aggregation in pluronic aqueous solutions?. Soft Matter, 2018, 14, 7653-7663.	1.2	11
33	Polylysine-grafted Au₁₄₄nanoclusters: birth and growth of a healthy surface-plasmon-resonance-like band. Chemical Science, 2017, 8, 3228-3238.	3.7	21
34	The role of TEOSâ€TIP within a pentablock ionomer: Morphology, physical properties, and ion transport. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 575-586.	2.4	4
35	Sulfoethylated nanofibrillated cellulose: Production and properties. Carbohydrate Polymers, 2017, 169, 515-523.	5.1	33
36	ABC Supramolecular Triblock Copolymer by ROMP and ATRP. Macromolecules, 2017, 50, 4244-4255.	2.2	12

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37	Effects of Membrane Defects and Polymer Hydrophobicity on Networking Kinetics of Vesicles. Langmuir, 2017, 33, 5745-5751.	1.6	8
38	Micromagnetic Cancer Cell Immobilization and Release for Real-Time Single Cell Analysis. Journal of Magnetism and Magnetic Materials, 2017, 427, 7-13.	1.0	13
39	SiO2-TiO2-PBC nanocomposite film morphology, solvent swelling, estimated Ï‡ parameter, and liquid transport. Polymer, 2017, 123, 247-257.	1.8	5
40	Modulation of polypeptide conformation through donorâ€“acceptor transformation of side-chain hydrogen bonding ligands. Nature Communications, 2017, 8, 92.	5.8	51
41	Biomimetic nanocoatings with exceptional mechanical, barrier, and flame-retardant properties from large-scale one-step coassembly. Science Advances, 2017, 3, e1701212.	4.7	195
42	Supramolecular Assembly of Comb-like Macromolecules Induced by Chemical Reactions that Modulate the Macromolecular Interactions In Situ. Journal of the American Chemical Society, 2017, 139, 11106-11116.	6.6	21
43	Insight into the interactions between pyrene and polystyrene for efficient quenching nitroaromatic explosives. Journal of Materials Chemistry C, 2017, 5, 12466-12473.	2.7	11
44	Stable Discoidal Bicelles: A Platform of Lipid Nanocarriers for Cellular Delivery. Methods in Molecular Biology, 2017, 1522, 273-282.	0.4	17
45	Molecular Design of a Minimal Peptide Nanoparticle. ACS Biomaterials Science and Engineering, 2017, 3, 724-732.	2.6	9
46	Decorating Nanoparticle Surface for Targeted Drug Delivery: Opportunities and Challenges. Polymers, 2016, 8, 83.	2.0	81
47	Morphology-Induced Defects Enhance Lipid Transfer Rates. Langmuir, 2016, 32, 9757-9764.	1.6	11
48	Development of â€œall naturalâ€•layer-by-layer redispersible solid lipid nanoparticles by nano spray drying technology. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 107, 273-285.	2.0	65
49	Aggregation of Phospholipid Based Vesicle Using Triblock Polymer. MRS Advances, 2016, 1, 3749-3754.	0.5	0
50	Principles Governing the Self-Assembly of Coiled-Coil Protein Nanoparticles. Biophysical Journal, 2016, 110, 646-660.	0.2	31
51	Morphology and opto-thermal properties of the thermo-responsive PNIPAAm-protected gold nanorods. Polymer, 2016, 84, 138-147.	1.8	9
52	The Morphology of Self-Assembled Lipid-Based Nanoparticles Affects Their Uptake by Cancer Cells. Journal of Biomedical Nanotechnology, 2016, 12, 1852-1863.	0.5	30
53	Magnetic studies of mesoporous nanostructured iron oxide materials synthesized by one-step soft-templating. Dalton Transactions, 2015, 44, 11943-11953.	1.6	15
54	Effects of Nanoparticle Morphology and Acyl Chain Length on Spontaneous Lipid Transfer Rates. Langmuir, 2015, 31, 12920-12928.	1.6	27

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55	In-situ temperature-controllable shear flow device for neutron scattering measurementâ€"An example of aligned bicellar mixtures. Review of Scientific Instruments, 2015, 86, 025112.	0.6	2
56	Fluorescence Quenching Kinetics of Py Excimer in PS Films. Materials Research Society Symposia Proceedings, 2014, 1629, 1.	0.1	1
57	Lipid-based nanodiscs as models for studying mesoscale coalescence â€“ a transport limited case. Soft Matter, 2014, 10, 5055.	1.2	16
58	Super-hydrophobic â€œsmartâ€•sand for buried explosive detection. Sensors and Actuators B: Chemical, 2014, 195, 52-57.	4.0	11
59	The effects of temperature, salinity, concentration and PEGylated lipid on the spontaneous nanostructures of bicellar mixtures. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 1871-1880.	1.4	34
60	A fluorescent polymer film with self-assembled three-dimensionally ordered nanopores: preparation, characterization and its application for explosives detection. Journal of Materials Chemistry A, 2014, 2, 14613-14621.	5.2	58
61	Unique Effects of the Chain Lengths and Anions of Tetra-alkylammonium Salts on Quenching Pyrene Excimer. ACS Applied Materials & Interfaces, 2014, 6, 14801-14811.	4.0	8
62	Morphological Characterization of DMPC/CHAPSO Bicellar Mixtures: A Combined SANS and NMR Study. Langmuir, 2013, 29, 15943-15957.	1.6	36
63	Growth kinetics of lipid-based nanodiscs to unilamellar vesiclesâ€"A time-resolved small angle neutron scattering (SANS) study. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1025-1035.	1.4	28
64	Controllable Formation of Pyrene (C₁₆H₁₀) Excimers in Polystyrene/Tetrabutylammonium Hexafluorophosphate Films through Solvent Vapor and Temperature Annealing. Journal of Physical Chemistry C, 2013, 117, 1428-1435.	1.5	18
65	Facile self-assembly of porphyrin-embedded polymeric vesicles for theranostic applications. Chemical Communications, 2012, 48, 9343.	2.2	44
66	Temperature Driven Annealing of Perforations in Bicellar Model Membranes. Langmuir, 2011, 27, 4838-4847.	1.6	39
67	Formation of Kinetically Trapped Nanoscopic Unilamellar Vesicles from Metastable Nanodiscs. Langmuir, 2011, 27, 14308-14316.	1.6	41
68	Fluid phase lipid areas and bilayer thicknesses of commonly used phosphatidylcholines as a function of temperature. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2761-2771.	1.4	850
69	An unusual morphological transformation of rhamnolipid aggregates induced by concentration and addition of styrene: A small angle neutron scattering (SANS) study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 373, 42-50.	2.3	12
70	Small unilamellar vesicles: a platform technology for molecular imaging of brain tumors. Nanotechnology, 2011, 22, 195102.	1.3	28
71	Changes in the calcium cluster distribution of ultrafiltered and diafiltered fresh skim milk as observed by Small Angle Neutron Scattering. Journal of Dairy Research, 2011, 78, 349-356.	0.7	32
72	Bicellar Mixtures Containing Pluronic F68: Morphology and Lateral Diffusion from Combined SANS and PFG NMR Studies. Langmuir, 2010, 26, 2630-2638.	1.6	26

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73	Small-Angle Scattering from Homogenous and Heterogeneous Lipid Bilayers. Behavior Research Methods, 2010, , 201-235.	2.3	17
74	Cholesterol in Bilayers with PUFA Chains: Doping with DMPC or POPC Results in Sterol Reorientation and Membrane-Domain Formation. Biochemistry, 2010, 49, 7485-7493.	1.2	109
75	Multimeric forms of the small multidrug resistance protein EmrE in anionic detergent. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 526-535.	1.4	21
76	Effects of Charge Density and Thermal History on the Morphologies of Spontaneously Formed Unilamellar Vesicles. Journal of Physical Chemistry B, 2010, 114, 5729-5735.	1.2	24
77	Formation mechanism of self-assembled unilamellar vesiclesSpecial issue on Neutron Scattering in Canada. Canadian Journal of Physics, 2010, 88, 735-740.	0.4	6
78	What determines the thickness of a biological membrane. General Physiology and Biophysics, 2009, 28, 117-125.	0.4	47
79	Spontaneously Formed Unilamellar Vesicles. Methods in Enzymology, 2009, 465, 3-20.	0.4	33
80	Characterization of anisotropic poly(vinyl alcohol) hydrogel by small- and ultra-small-angle neutron scattering. Journal of Chemical Physics, 2009, 130, 034903.	1.2	29
81	Asymmetric Distribution of Cholesterol in Unilamellar Vesicles of Monounsaturated Phospholipids. Langmuir, 2009, 25, 13522-13527.	1.6	28
82	Chain Conformation of a New Class of PEG-Based Thermoresponsive Polymer Brushes Grafted on Silicon as Determined by Neutron Reflectometry. Langmuir, 2009, 25, 10271-10278.	1.6	79
83	The Functional Significance of Lipid Diversity: Orientation of Cholesterol in Bilayers Is Determined by Lipid Species. Journal of the American Chemical Society, 2009, 131, 16358-16359.	6.6	51
84	Neutron and X-ray scattering for biophysics and biotechnology: examples of self-assembled lipid systems. Soft Matter, 2009, 5, 2694.	1.2	25
85	The influence of curvature on membrane domains. European Biophysics Journal, 2008, 37, 665-671.	1.2	20
86	Effects of additives on the structure of rhamnolipid (biosurfactant): A small-angle neutron scattering (SANS) study. Journal of Colloid and Interface Science, 2008, 319, 590-593.	5.0	67
87	Effect of Cations on the Structure of Bilayers Formed by Lipopolysaccharides Isolated from Pseudomonas aeruginosa PAO1. Journal of Physical Chemistry B, 2008, 112, 8057-8062.	1.2	82
88	Structure from substrate supported lipid bilayers (Review). Biointerphases, 2008, 3, FB55-FB63.	0.6	18
89	Controlled release mechanisms of spontaneously forming unilamellar vesicles. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1467-1471.	1.4	20
90	Morphology of Comb-Shaped Proton Exchange Membrane Copolymers Based on a Neutron Scattering Study. Macromolecules, 2008, 41, 6176-6182.	2.2	37

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91	Adapting a triple-axis spectrometer for small angle neutron scattering measurements. Review of Scientific Instruments, 2008, 79, 095102.	0.6	6
92	Neutron Diffraction Study ofPseudomonasaeruginosaLipopolysaccharide Bilayers. Journal of Physical Chemistry B, 2007, 111, 2477-2483.	1.2	48
93	SANS Characterization of an Anisotropic Poly(vinyl alcohol) Hydrogel with Vascular Applications. Macromolecules, 2007, 40, 3655-3662.	2.2	82
94	Characterization of protein resistant, grafted methacrylate polymer layers bearing oligo(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	31
95	The study of liposomes, lamellae and membranes using neutrons and X-rays. Current Opinion in Colloid and Interface Science, 2007, 12, 17-22.	3.4	41
96	Small-Angle Neutron Scattering to Detect Rafts and Lipid Domains. Methods in Molecular Biology, 2007, 398, 231-244.	0.4	27
97	Spontaneously Forming Ellipsoidal Phospholipid Unilamellar Vesicles and Their Interactions with Helical Domains of Saposin C. Langmuir, 2006, 22, 11028-11033.	1.6	13
98	Comparison of Solution Structures and Stabilities of Native, Partially Unfolded and Partially Refolded Pepsin. Biochemistry, 2006, 45, 13982-13992.	1.2	28
99	Spontaneously Forming Unilamellar Phospholipid Vesicles. Macromolecular Symposia, 2005, 219, 123-134.	0.4	3
100	Structural Phase Behavior of High-Concentration, Alignable Biomimetic Bicelle Mixtures. Macromolecular Symposia, 2005, 219, 135-146.	0.4	16
101	â€œBicellarâ€•Lipid Mixtures as used in Biochemical and Biophysical Studies. Die Naturwissenschaften, 2005, 92, 355-366.	0.6	117
102	Highly Stable Phospholipid Unilamellar Vesicles from Spontaneous Vesiculation:Â A DLS and SANS Study. Journal of Physical Chemistry B, 2005, 109, 609-616.	1.2	54
103	Comprehensive Examination of Mesophases Formed by DMPC and DHPC Mixtures. Langmuir, 2005, 21, 5356-5361.	1.6	103
104	Bilayer thickness and thermal response of dimyristoylphosphatidylcholine unilamellar vesicles containing cholesterol, ergosterol and lanosterol: A small-angle neutron scattering study. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1720, 84-91.	1.4	92
105	Spontaneously Formed Unilamellar Vesicles with Path-Dependent Size Distribution. Langmuir, 2005, 21, 6656-6661.	1.6	66
106	Effect of the Hydrophilic Size on the Structural Phases of Aqueous Nonionic Gemini Surfactant Solutions. Langmuir, 2004, 20, 9061-9068.	1.6	31
107	Magnetically Alignable Phase of Phospholipid â€œBicelleâ€•Mixtures Is a Chiral Nematic Made Up of Wormlike Micelles. Langmuir, 2004, 20, 7893-7897.	1.6	117
108	Neutron Scattering Study of Chain Conformations in the Energetically Neutral Pores of Vycor Glass. Macromolecules, 2002, 35, 6384-6391.	2.2	6

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109	SANS Study on the Effect of Lanthanide Ions and Charged Lipids on the Morphology of Phospholipid Mixtures. Biophysical Journal, 2002, 82, 2487-2498.	0.2	117
110	SANS Study of the Structural Phases of Magnetically Alignable Lanthanide-Doped Phospholipid Mixtures. Langmuir, 2001, 17, 2629-2638.	1.6	128
111	Morphology of fast-tumbling bicelles: a small angle neutron scattering and NMR study. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1513, 83-94.	1.4	131
112	Restrictionâ€inâ€Motion of Surface Ligands Enhances Photoluminescence of Quantum Dotsâ€”Experiment and Theory. Advanced Materials Interfaces, 0, , 2102079.	1.9	4