

Mu-Ping Nieh

List of Publications by Year in descending order

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112
papers

4,499
citations

126907

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5708
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#	ARTICLE	IF	CITATIONS
1	Fluid phase lipid areas and bilayer thicknesses of commonly used phosphatidylcholines as a function of temperature. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2761-2771.	2.6	850
2	Biomimetic nanocoatings with exceptional mechanical, barrier, and flame-retardant properties from large-scale one-step coassembly. <i>Science Advances</i> , 2017, 3, e1701212.	10.3	195
3	Morphology of fast-tumbling bicelles: a small angle neutron scattering and NMR study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001, 1513, 83-94.	2.6	131
4	SANS Study of the Structural Phases of Magnetically Alignable Lanthanide-Doped Phospholipid Mixtures. <i>Langmuir</i> , 2001, 17, 2629-2638.	3.5	128
5	SANS Study on the Effect of Lanthanide Ions and Charged Lipids on the Morphology of Phospholipid Mixtures. <i>Biophysical Journal</i> , 2002, 82, 2487-2498.	0.5	117
6	Magnetically Alignable Phase of Phospholipid "Bicelle" Mixtures Is a Chiral Nematic Made Up of Wormlike Micelles. <i>Langmuir</i> , 2004, 20, 7893-7897.	3.5	117
7	"Bicellar" Lipid Mixtures as used in Biochemical and Biophysical Studies. <i>Die Naturwissenschaften</i> , 2005, 92, 355-366.	1.6	117
8	Cholesterol in Bilayers with PUFA Chains: Doping with DMPC or POPC Results in Sterol Reorientation and Membrane-Domain Formation. <i>Biochemistry</i> , 2010, 49, 7485-7493.	2.5	109
9	Comprehensive Examination of Mesophases Formed by DMPC and DHPC Mixtures. <i>Langmuir</i> , 2005, 21, 5356-5361.	3.5	103
10	Bilayer thickness and thermal response of dimyristoylphosphatidylcholine unilamellar vesicles containing cholesterol, ergosterol and lanosterol: A small-angle neutron scattering study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1720, 84-91.	2.6	92
11	Combinational Effects of Active Targeting, Shape, and Enhanced Permeability and Retention for Cancer Theranostic Nanocarriers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10505-10519.	8.0	83
12	SANS Characterization of an Anisotropic Poly(vinyl alcohol) Hydrogel with Vascular Applications. <i>Macromolecules</i> , 2007, 40, 3655-3662.	4.8	82
13	Effect of Cations on the Structure of Bilayers Formed by Lipopolysaccharides Isolated from <i>Pseudomonas aeruginosa</i> PAO1. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8057-8062.	2.6	82
14	Decorating Nanoparticle Surface for Targeted Drug Delivery: Opportunities and Challenges. <i>Polymers</i> , 2016, 8, 83.	4.5	81
15	Chain Conformation of a New Class of PEG-Based Thermoresponsive Polymer Brushes Grafted on Silicon as Determined by Neutron Reflectometry. <i>Langmuir</i> , 2009, 25, 10271-10278.	3.5	79
16	Effects of additives on the structure of rhamnolipid (biosurfactant): A small-angle neutron scattering (SANS) study. <i>Journal of Colloid and Interface Science</i> , 2008, 319, 590-593.	9.4	67
17	Spontaneously Formed Unilamellar Vesicles with Path-Dependent Size Distribution. <i>Langmuir</i> , 2005, 21, 6656-6661.	3.5	66
18	Development of "all natural" layer-by-layer redispersible solid lipid nanoparticles by nano spray drying technology. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 107, 273-285.	4.3	65

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19	Assembling Pentatopic Terpyridine Ligands with Three Types of Coordination Moieties into a Giant Supramolecular Hexagonal Prism: Synthesis, Self-Assembly, Characterization, and Antimicrobial Study. <i>Journal of the American Chemical Society</i> , 2019, 141, 16108-16116.	13.7	63
20	A fluorescent polymer film with self-assembled three-dimensionally ordered nanopores: preparation, characterization and its application for explosives detection. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14613-14621.	10.3	58
21	Highly Stable Phospholipid Unilamellar Vesicles from Spontaneous Vesiculation: A DLS and SANS Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 609-616.	2.6	54
22	The Functional Significance of Lipid Diversity: Orientation of Cholesterol in Bilayers Is Determined by Lipid Species. <i>Journal of the American Chemical Society</i> , 2009, 131, 16358-16359.	13.7	51
23	Modulation of polypeptide conformation through donor-acceptor transformation of side-chain hydrogen bonding ligands. <i>Nature Communications</i> , 2017, 8, 92.	12.8	51
24	Neutron Diffraction Study of <i>Pseudomonas aeruginosa</i> Lipopolysaccharide Bilayers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 2477-2483.	2.6	48
25	What determines the thickness of a biological membrane. <i>General Physiology and Biophysics</i> , 2009, 28, 117-125.	0.9	47
26	Facile self-assembly of porphyrin-embedded polymeric vesicles for theranostic applications. <i>Chemical Communications</i> , 2012, 48, 9343.	4.1	44
27	The study of liposomes, lamellae and membranes using neutrons and X-rays. <i>Current Opinion in Colloid and Interface Science</i> , 2007, 12, 17-22.	7.4	41
28	Formation of Kinetically Trapped Nanoscopic Unilamellar Vesicles from Metastable Nanodiscs. <i>Langmuir</i> , 2011, 27, 14308-14316.	3.5	41
29	Temperature Driven Annealing of Perforations in Bicellar Model Membranes. <i>Langmuir</i> , 2011, 27, 4838-4847.	3.5	39
30	Morphology of Comb-Shaped Proton Exchange Membrane Copolymers Based on a Neutron Scattering Study. <i>Macromolecules</i> , 2008, 41, 6176-6182.	4.8	37
31	Morphological Characterization of DMPC/CHAPSO Bicellar Mixtures: A Combined SANS and NMR Study. <i>Langmuir</i> , 2013, 29, 15943-15957.	3.5	36
32	Reversible mechanofluorochromism of aniline-terminated phenylene ethynyls. <i>Chemical Science</i> , 2018, 9, 5415-5426.	7.4	35
33	The effects of temperature, salinity, concentration and PEGylated lipid on the spontaneous nanostructures of bicellar mixtures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 1871-1880.	2.6	34
34	Chemically Controlled Helical Polymorphism in Protein Tubes by Selective Modulation of Supramolecular Interactions. <i>Journal of the American Chemical Society</i> , 2019, 141, 19448-19457.	13.7	34
35	Spontaneously Formed Unilamellar Vesicles. <i>Methods in Enzymology</i> , 2009, 465, 3-20.	1.0	33
36	Sulfoethylated nanofibrillated cellulose: Production and properties. <i>Carbohydrate Polymers</i> , 2017, 169, 515-523.	10.2	33

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37	Changes in the calcium cluster distribution of ultrafiltered and diafiltered fresh skim milk as observed by Small Angle Neutron Scattering. <i>Journal of Dairy Research</i> , 2011, 78, 349-356.	1.4	32
38	Effect of the Hydrophilic Size on the Structural Phases of Aqueous Nonionic Gemini Surfactant Solutions. <i>Langmuir</i> , 2004, 20, 9061-9068.	3.5	31
39	Characterization of protein resistant, grafted methacrylate polymer layers bearing oligo(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo	1.6	31
40	Principles Governing the Self-Assembly of Coiled-Coil Protein Nanoparticles. <i>Biophysical Journal</i> , 2016, 110, 646-660.	0.5	31
41	The Morphology of Self-Assembled Lipid-Based Nanoparticles Affects Their Uptake by Cancer Cells. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1852-1863.	1.1	30
42	Characterization of anisotropic poly(vinyl alcohol) hydrogel by small- and ultra-small-angle neutron scattering. <i>Journal of Chemical Physics</i> , 2009, 130, 034903.	3.0	29
43	Bicelles Rich in both Sphingolipids and Cholesterol and Their Use in Studies of Membrane Proteins. <i>Journal of the American Chemical Society</i> , 2020, 142, 12715-12729.	13.7	29
44	Comparison of Solution Structures and Stabilities of Native, Partially Unfolded and Partially Refolded Pepsin. <i>Biochemistry</i> , 2006, 45, 13982-13992.	2.5	28
45	Asymmetric Distribution of Cholesterol in Unilamellar Vesicles of Monounsaturated Phospholipids. <i>Langmuir</i> , 2009, 25, 13522-13527.	3.5	28
46	Small unilamellar vesicles: a platform technology for molecular imaging of brain tumors. <i>Nanotechnology</i> , 2011, 22, 195102.	2.6	28
47	Growth kinetics of lipid-based nanodiscs to unilamellar vesiclesâ€”A time-resolved small angle neutron scattering (SANS) study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1025-1035.	2.6	28
48	Effects of Nanoparticle Morphology and Acyl Chain Length on Spontaneous Lipid Transfer Rates. <i>Langmuir</i> , 2015, 31, 12920-12928.	3.5	27
49	Directed polymorphism and mechanofluorochromism of conjugated materials through weak non-covalent control. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8316-8324.	5.5	27
50	Small-Angle Neutron Scattering to Detect Rafts and Lipid Domains. <i>Methods in Molecular Biology</i> , 2007, 398, 231-244.	0.9	27
51	Bicellar Mixtures Containing Pluronic F68: Morphology and Lateral Diffusion from Combined SANS and PFG NMR Studies. <i>Langmuir</i> , 2010, 26, 2630-2638.	3.5	26
52	Neutron and X-ray scattering for biophysics and biotechnology: examples of self-assembled lipid systems. <i>Soft Matter</i> , 2009, 5, 2694.	2.7	25
53	Outer membrane vesicles (OMVs) enabled bioâ€™applications: A critical review. <i>Biotechnology and Bioengineering</i> , 2022, 119, 34-47.	3.3	25
54	Effects of Charge Density and Thermal History on the Morphologies of Spontaneously Formed Unilamellar Vesicles. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5729-5735.	2.6	24

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55	A universal discoidal nanoplatform for the intracellular delivery of PNAs. <i>Nanoscale</i> , 2019, 11, 12517-12529.	5.6	24
56	Aggregation-Enhanced Photoluminescence and Photoacoustics of Atomically Precise Gold Nanoclusters in Lipid Nanodiscs (NANO ²). <i>Advanced Functional Materials</i> , 2021, 31, 2009750.	14.9	22
57	Multimeric forms of the small multidrug resistance protein EmrE in anionic detergent. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 526-535.	2.6	21
58	Polylysine-grafted Au ₁₄₄ nanoclusters: birth and growth of a healthy surface-plasmon-resonance-like band. <i>Chemical Science</i> , 2017, 8, 3228-3238.	7.4	21
59	Supramolecular Assembly of Comb-like Macromolecules Induced by Chemical Reactions that Modulate the Macromolecular Interactions In Situ. <i>Journal of the American Chemical Society</i> , 2017, 139, 11106-11116.	13.7	21
60	The influence of curvature on membrane domains. <i>European Biophysics Journal</i> , 2008, 37, 665-671.	2.2	20
61	Controlled release mechanisms of spontaneously forming unilamellar vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 1467-1471.	2.6	20
62	A Comprehensive Landscape for Fibril Association Behaviors Encoded Synergistically by Saccharides and Peptides. <i>Journal of the American Chemical Society</i> , 2021, 143, 6622-6633.	13.7	19
63	Structure from substrate supported lipid bilayers (Review). <i>Biointerphases</i> , 2008, 3, FB55-FB63.	1.6	18
64	Controllable Formation of Pyrene (C ₁₆ H ₁₀) Excimers in Polystyrene/Tetrabutylammonium Hexafluorophosphate Films through Solvent Vapor and Temperature Annealing. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1428-1435.	3.1	18
65	Metallo- α -Helicoid with Double Rims: Polymerization Followed by Folding by Intramolecular Coordination. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1281-1289.	13.8	18
66	Small-Angle Scattering from Homogenous and Heterogeneous Lipid Bilayers. <i>Behavior Research Methods</i> , 2010, , 201-235.	4.0	17
67	Stable Discoidal Bicelles: A Platform of Lipid Nanocarriers for Cellular Delivery. <i>Methods in Molecular Biology</i> , 2017, 1522, 273-282.	0.9	17
68	Templated Supramolecular Structures of Multichromic, Multiresponsive Perylene Diimide-Polydiacetylene Films. <i>Macromolecules</i> , 2020, 53, 4501-4510.	4.8	17
69	Structural Phase Behavior of High-Concentration, Alignable Biomimetic Bicelle Mixtures. <i>Macromolecular Symposia</i> , 2005, 219, 135-146.	0.7	16
70	Lipid-based nanodiscs as models for studying mesoscale coalescence – a transport limited case. <i>Soft Matter</i> , 2014, 10, 5055.	2.7	16
71	DNA-Mediated Step-Growth Polymerization of Bottlebrush Macromonomers. <i>Journal of the American Chemical Society</i> , 2020, 142, 10297-10301.	13.7	16
72	Magnetic studies of mesoporous nanostructured iron oxide materials synthesized by one-step soft-templating. <i>Dalton Transactions</i> , 2015, 44, 11943-11953.	3.3	15

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73	Genetically Engineered Bacterial Outer Membrane Vesicles with Expressed Nanoluciferase Reporter for <i>In Vivo</i> Bioluminescence Kinetic Modeling through Noninvasive Imaging. <i>ACS Applied Bio Materials</i> , 2019, 2, 5608-5615.	4.6	15
74	Crystalline Mesoporous Complex Oxides: Porosity-Controlled Electromagnetic Response. <i>Advanced Functional Materials</i> , 2020, 30, 1909491.	14.9	15
75	Dual-Modality Poly-histidine Nanoparticles to Deliver Peptide Nucleic Acids and Paclitaxel for <i>In Vivo</i> Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45244-45258.	8.0	15
76	Multichannel hollow carbon fibers: Processing, structure, and properties. <i>Carbon</i> , 2021, 174, 730-740.	10.3	14
77	Spontaneously Forming Ellipsoidal Phospholipid Unilamellar Vesicles and Their Interactions with Helical Domains of Saposin C. <i>Langmuir</i> , 2006, 22, 11028-11033.	3.5	13
78	Micromagnetic Cancer Cell Immobilization and Release for Real-Time Single Cell Analysis. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 427, 7-13.	2.3	13
79	An unusual morphological transformation of rhamnolipid aggregates induced by concentration and addition of styrene: A small angle neutron scattering (SANS) study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 373, 42-50.	4.7	12
80	ABC Supramolecular Triblock Copolymer by ROMP and ATRP. <i>Macromolecules</i> , 2017, 50, 4244-4255.	4.8	12
81	Codelivery of Paclitaxel and Parthenolide in Discoidal Bicelles for a Synergistic Anticancer Effect: Structure Matters. <i>Advanced NanoBiomed Research</i> , 2022, 2, 2100080.	3.6	12
82	Super-hydrophobic smart-sand for buried explosive detection. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 52-57.	7.8	11
83	Morphology-Induced Defects Enhance Lipid Transfer Rates. <i>Langmuir</i> , 2016, 32, 9757-9764.	3.5	11
84	Insight into the interactions between pyrene and polystyrene for efficient quenching nitroaromatic explosives. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12466-12473.	5.5	11
85	What causes the anomalous aggregation in pluronic aqueous solutions?. <i>Soft Matter</i> , 2018, 14, 7653-7663.	2.7	11
86	Glycosyltransferase-Induced Morphology Transition of Glycopeptide Self-Assemblies with Proteoglycan Residues. <i>ACS Macro Letters</i> , 2020, 9, 929-936.	4.8	10
87	Refining internal bilayer structure of bicelles resolved by extended-q small angle X-ray scattering. <i>Chemistry and Physics of Lipids</i> , 2020, 231, 104945.	3.2	10
88	Effects of fluidity and charge density on the morphology of a bicellar mixture – A SANS study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183315.	2.6	10
89	Morphology and opto-thermal properties of the thermo-responsive PNIPAAm-protected gold nanorods. <i>Polymer</i> , 2016, 84, 138-147.	3.8	9
90	Molecular Design of a Minimal Peptide Nanoparticle. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 724-732.	5.2	9

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91	Unique Effects of the Chain Lengths and Anions of Tetra-alkylammonium Salts on Quenching Pyrene Excimer. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 14801-14811.	8.0	8
92	Effects of Membrane Defects and Polymer Hydrophobicity on Networking Kinetics of Vesicles. <i>Langmuir</i> , 2017, 33, 5745-5751.	3.5	8
93	Genetically engineered bio-nanoparticles with co-expressed enzyme reporter and recognition element for IgG immunoassay. <i>Sensors and Actuators Reports</i> , 2019, 1, 100003.	4.4	8
94	Head on Comparison of Self- and Nano-Assemblies of Gamma Peptide Nucleic Acid Amphiphiles. <i>Advanced Functional Materials</i> , 2022, 32, 2109552.	14.9	8
95	Structural Engineering in the Self-Assembly of Amphiphilic Block Copolymers with Reactive Additives: Micelles, Vesicles, and Beyond. <i>Langmuir</i> , 2021, 37, 9865-9872.	3.5	7
96	Patchy metal nanoparticles with polymers: controllable growth and two-way self-assembly. <i>Nanoscale</i> , 2022, 14, 7364-7371.	5.6	7
97	Neutron Scattering Study of Chain Conformations in the Energetically Neutral Pores of Vycor Glass. <i>Macromolecules</i> , 2002, 35, 6384-6391.	4.8	6
98	Adapting a triple-axis spectrometer for small angle neutron scattering measurements. <i>Review of Scientific Instruments</i> , 2008, 79, 095102.	1.3	6
99	Formation mechanism of self-assembled unilamellar vesicles Special issue on Neutron Scattering in Canada. <i>Canadian Journal of Physics</i> , 2010, 88, 735-740.	1.1	6
100	SiO ₂ -TiO ₂ -PBC nanocomposite film morphology, solvent swelling, estimated χ parameter, and liquid transport. <i>Polymer</i> , 2017, 123, 247-257.	3.8	5
101	Flower-like Micelles of Polyethylene Oxide End-Capped with Cholesterol. <i>Macromolecules</i> , 2021, 54, 8960-8970.	4.8	5
102	Effect of drug-to-lipid ratio on nanodisc-based tenofovir drug delivery to the brain for HIV-1 infection. <i>Nanomedicine</i> , 2022, 17, 959-978.	3.3	5
103	The role of TEOS-TIP within a pentablock ionomer: Morphology, physical properties, and ion transport. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 575-586.	2.1	4
104	Restriction of Motion of Surface Ligands Enhances Photoluminescence of Quantum Dots Experiment and Theory. <i>Advanced Materials Interfaces</i> , 0, , 2102079.	3.7	4
105	Spontaneously Forming Unilamellar Phospholipid Vesicles. <i>Macromolecular Symposia</i> , 2005, 219, 123-134.	0.7	3
106	Nanocomplex made up of antimicrobial metallo-supramolecules and model biomembranes – characterization and enhanced fluorescence. <i>Nanoscale</i> , 2021, 13, 14973-14979.	5.6	3
107	Changes Experienced by Low-Concentration Lipid Bicelles as a Function of Temperature. <i>Langmuir</i> , 2022, , .	3.5	3
108	In-situ temperature-controllable shear flow device for neutron scattering measurement – An example of aligned bicellar mixtures. <i>Review of Scientific Instruments</i> , 2015, 86, 025112.	1.3	2

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109	Metallo- α -Helicoid with Double Rims: Polymerization Followed by Folding by Intramolecular Coordination. <i>Angewandte Chemie</i> , 2021, 133, 1301-1309.	2.0	2
110	Fluorescence Quenching Kinetics of Py Excimer in PS Films. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1629, 1.	0.1	1
111	Aggregation of Phospholipid Based Vesicle Using Triblock Polymer. <i>MRS Advances</i> , 2016, 1, 3749-3754.	0.9	0
112	Correlation of the hierarchical structure with rheological behavior of polypseudorotaxane gel composed of pluronic and β -cyclodextrin. <i>Soft Matter</i> , 2020, 16, 4990-4998.	2.7	0