Shuo Qian

List of Publications by Year
in descending order

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77 papers	1,834 citations	257450 24 h-index	276875 41 g-index
85 all docs	85 docs citations	85 times ranked	2744 citing authors

#	Article	IF	Citations
1	Interaction of a short antimicrobial peptide on charged lipid bilayer: A case study on aurein 1.2 peptide. BBA Advances, 2022, 2, 100045.	1.6	8
2	Poly(N-vinylpyrrolidone)-block-Poly(dimethylsiloxane)-block-Poly(N-vinylpyrrolidone) Triblock Copolymer Polymersomes for Delivery of PARP1 siRNA to Breast Cancers. ACS Applied Bio Materials, 2022, 5, 1670-1682.	4.6	13
3	drtsans: The data reduction toolkit for small-angle neutron scattering at Oak Ridge National Laboratory. SoftwareX, 2022, 19, 101101.	2.6	32
4	CENTAURâ€"The small- and wide-angle neutron scattering diffractometer/spectrometer for the Second Target Station of the Spallation Neutron Source. Review of Scientific Instruments, 2022, 93, .	1.3	9
5	Small angle neutron scattering and lipidomic analysis of a native, trimeric PSI-SMALP from a thermophilic cyanobacteria. Biochimica Et Biophysica Acta - Bioenergetics, 2022, 1863, 148596.	1.0	3
6	Structure of Diisobutylene Maleic Acid Copolymer (DIBMA) and Its Lipid Particle as a â€œStealthâ€• Membrane-Mimetic for Membrane Protein Research. ACS Applied Bio Materials, 2021, 4, 4760-4768.	4.6	8
7	Conformational Dynamics in the Interaction of SARS-CoV-2 Papain-like Protease with Human Interferon-Stimulated Gene 15 Protein. Journal of Physical Chemistry Letters, 2021, 12, 5608-5615.	4.6	14
8	Temperature controlled transformations of giant unilamellar vesicles of amphiphilic triblock copolymers synthesized via microfluidic mixing. Applied Surface Science Advances, 2021, 5, 100101.	6.8	5
9	Supermolecular structures of recrystallized starches with amylopectin side chains modified by amylosucrase to different chain lengths. Food Hydrocolloids, 2021, 119, 106830.	10.7	21
10	A Unified User-Friendly Instrument Control and Data Acquisition System for the ORNL SANS Instrument Suite. Applied Sciences (Switzerland), 2021, 11, 1216.	2.5	4
11	Conceptual design of a small- and wide-angle neutron scattering diffractometer/spectrometer for the Second Target Station of the SNS: Centaur. Acta Crystallographica Section A: Foundations and Advances, 2021, 77, a24-a24.	0.1	0
12	Structure and dynamics of lipid membranes interacting with antivirulence end-phosphorylated polyethylene glycol block copolymers. Soft Matter, 2020, 16, 983-989.	2.7	10
13	Understanding the Structure and Dynamics of Complex Biomembrane Interactions by Neutron Scattering Techniques. Langmuir, 2020, 36, 15189-15211.	3.5	38
14	Effect of ethoxylation and lauryl alcohol on the self-assembly of sodium laurylsulfate: Significant structural and rheological transformation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 595, 124704.	4.7	5
15	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.	13.7	29
16	Advanced characterization of surface-modified nanoparticles and nanofilled antibacterial dental adhesive resins. Scientific Reports, 2020, 10, 9811.	3.3	16
17	Highly Dynamic C99 Oligomeric Structure in Cholesterol and Sphingomyelin Rich Bicelles. Biophysical Journal, 2020, 118, 12a.	0.5	0
18	Real-time pressureâ€“temperature reaction studies of biological systems using small-angle neutron scattering technique. Acta Crystallographica Section A: Foundations and Advances, 2020, 76, a133-a133.	0.1	0

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19	Tailoring Biomimetic Phosphorylcholine-Containing Block Copolymers as Membrane-Targeting Cellular Rescue Agents. Biomacromolecules, 2019, 20, 3385-3391.	5.4	11
20	Structural determination of Enzyme-Graphene Nanocomposite Sensor Material. Scientific Reports, 2019, 9, 15519.	3.3	3
21	An ensemble of flexible conformations underlies mechanotransduction by the cadherinâ€“catenin adhesion complex. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21545-21555.	7.1	33
22	Temperature-Responsive Polymersomes of Poly(3-methyl-N-vinylcaprolactam)-block-poly(N-vinylpyrrolidone) To Decrease Doxorubicin-Induced Cardiotoxicity. Biomacromolecules, 2019, 20, 3989-4000.	5.4	31
23	Alternating crystalline lamellar structures from thermodynamically miscible poly(Îµ-caprolactone) H/D blends. Polymer, 2019, 175, 320-328.	3.8	5
24	Structural Fluctuations in Rhodopsin Activation Revealed by Neutron Scattering. Biophysical Journal, 2019, 116, 53a.	0.5	0
25	Aurein 1.2, a Short and Potent Antimicrobial Peptide, Changes Charged Lipid Distribution and Lipid Dynamics in Bilayer. Biophysical Journal, 2019, 116, 86a.	0.5	0
26	Differential behavior of sodium laurylsulfate micelles in the presence of nonionic polymers. Journal of Colloid and Interface Science, 2019, 544, 276-283.	9.4	14
27	Effect of an Antimicrobial Peptide on Lateral Segregation of Lipids: A Structure and Dynamics Study by Neutron Scattering. Langmuir, 2019, 35, 4152-4160.	3.5	28
28	Effect of Temperature and Hydrophilic Ratio on the Structure of Poly(N-vinylcaprolactam)-block-poly(dimethylsiloxane)-block-poly(N-vinylcaprolactam) Polymersomes. ACS Applied Polymer Materials, 2019, 1, 722-736.	4.4	15
29	Crystallization-Driven Self-Assembly of Coilâ€“Comb-Shaped Polypeptoid Block Copolymers: Solution Morphology and Self-Assembly Pathways. Macromolecules, 2019, 52, 8867-8877.	4.8	42
30	Amphiphilic Bottlebrush Block Copolymers: Analysis of Aqueous Self-Assembly by Small-Angle Neutron Scattering and Surface Tension Measurements. Macromolecules, 2019, 52, 465-476.	4.8	56
31	Potentials with smallâ€angle neutron scattering technique for understanding structureâ€“property relation of 3Dâ€printed materials. Polymer Engineering and Science, 2019, 59, E65.	3.1	5
32	Analysis of styrene maleic acid alternating copolymer supramolecular assemblies in solution by small angle X-ray scattering. European Polymer Journal, 2019, 111, 178-184.	5.4	14
33	A Two-Fold Structural Classification Method for Determining the Accurate Ensemble of Protein Structures. Communications in Computational Physics, 2019, 25, .	1.7	1
34	Nondestructive hydrogen analysis of steam-oxidized Zircaloy-4 by wide-angle neutron scattering. Journal of Nuclear Materials, 2018, 502, 191-200.	2.7	2
35	The suite of small-angle neutron scattering instruments at Oak Ridge National Laboratory. Journal of Applied Crystallography, 2018, 51, 242-248.	4.5	115
36	Structural investigation of cellobiose dehydrogenase IIA: Insights from small angle scattering into intra- and intermolecular electron transfer mechanisms. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1031-1039.	2.4	26

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37	Small-Angle Neutron Scattering Reveals Energy Landscape for Rhodopsin Photoactivation. Journal of Physical Chemistry Letters, 2018, 9, 7064-7071.	4.6	16
38	Investigating the effect of supramolecular gel phase crystallization on gel nucleation. Soft Matter, 2018, 14, 9489-9497.	2.7	15
39	Grazing-Angle Neutron Diffraction Study of the Water Distribution in Membrane Hemifusion: From the Lamellar to Rhombohedral Phase. Journal of Physical Chemistry Letters, 2018, 9, 5778-5784.	4.6	9
40	Quantitative Analysis of the Morphology of {101} and {001} Faceted Anatase TiO₂ Nanocrystals and Its Implication on Photocatalytic Activity. Chemistry of Materials, 2017, 29, 5591-5604.	6.7	65
41	Neutron Scattering to Study Membrane Systems: From Model Membranes to Living Cells. Biophysical Journal, 2017, 112, 224a.	0.5	0
42	Interaction of Aurein 1.2 and Charged Lipid Bilayers. Biophysical Journal, 2017, 112, 378a-379a.	0.5	1
43	Small-angle neutron scattering study of a dense microemulsion system formed with an ionic liquid. Soft Matter, 2017, 13, 7154-7160.	2.7	7
44	Interaction of the Antimicrobial Peptide Aurein 1.2 and Charged Lipid Bilayer. Scientific Reports, 2017, 7, 3719.	3.3	28
45	The in vivo structure of biological membranes and evidence for lipid domains. PLoS Biology, 2017, 15, e2002214.	5.6	123
46	Neutron Scattering Studies of the Interplay of Amyloid Î² Peptide(1â€“40) and An Anionic Lipid 1,2-dimyristoyl-sn-glycero-3-phosphoglycerol. Scientific Reports, 2016, 6, 30983.	3.3	27
47	Informing the improvement of forest products durability using small angle neutron scattering. Cellulose, 2016, 23, 1593-1607.	4.9	41
48	The Interaction of Melittin with Dimyristoyl Phosphatidylcholine-Dimyristoyl Phosphatidylserine Lipid Bilayer Membranes. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2788-2794.	2.6	17
49	Dynamical and Phase Behavior of a Phospholipid Membrane Altered by an Antimicrobial Peptide at Low Concentration. Journal of Physical Chemistry Letters, 2016, 7, 2394-2401.	4.6	56
50	Small Angle Neutron and X-Ray Scattering Reveal Conformational Differences in Detergents Affecting Rhodopsin Activation. Biophysical Journal, 2015, 108, 39a.	0.5	2
51	Fast, quantitative, and nondestructive evaluation of hydrided LWR fuel cladding by small angle incoherent neutron scattering of hydrogen. Journal of Nuclear Materials, 2015, 460, 114-121.	2.7	4
52	Small Angle Neutron Scattering Studies of Glucose Oxidase Immobilized on Single Layer Graphene: Relevant to Protein Microfluidic Chip. Biophysical Journal, 2015, 108, 327a-328a.	0.5	1
53	Melittin-induced cholesterol reorganization in lipid bilayer membranes. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2253-2260.	2.6	24
54	Corrections for the geometric distortion of the tube detectors on SANS instruments at ORNL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 775, 63-70.	1.6	10

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55	Small-angle neutron scattering reveals the assembly of alpha-synuclein in lipid membranes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1881-1889.	2.3	18
56	The Bio-SANS instrument at the High Flux Isotope Reactor of Oak Ridge National Laboratory. Journal of Applied Crystallography, 2014, 47, 1238-1246.	4.5	83
57	Nondestructive Evaluation on Hydrided LWR Fuel Cladding by Small Angle Incoherent Neutron Scattering of Hydrogen. Materials Research Society Symposia Proceedings, 2014, 1653, 1.	0.1	1
58	Alamethicin Disrupts the Cholesterol Distribution in Dimyristoyl Phosphatidylcholineâ€“Cholesterol Lipid Bilayers. Journal of Physical Chemistry B, 2014, 118, 11200-11208.	2.6	28
59	Synthesis, Characterization and Applications of a Perdeuterated Amphipol. Journal of Membrane Biology, 2014, 247, 909-924.	2.1	36
60	Amphipol-Trapped ExbBâ€“ExbD Membrane Protein Complex from Escherichia coli: A Biochemical and Structural Case Study. Journal of Membrane Biology, 2014, 247, 1005-1018.	2.1	18
61	G-Protein-Coupled Receptor Activation Investigated using Small-Angle Neutron Scattering. Biophysical Journal, 2014, 106, 634a.	0.5	1
62	Redistribution of Cholesterol in Model Lipid Membranes in Response to Alamethicin. Biophysical Journal, 2014, 106, 294a.	0.5	1
63	Analysis of the solution structure of Thermosynechococcus elongatus photosystem I in n-dodecyl-Î²-d-maltoside using small-angle neutron scattering and molecular dynamics simulation. Archives of Biochemistry and Biophysics, 2014, 550-551, 50-57.	3.0	23
64	Interplay Between Amyloid Beta-Peptide and Cholesterol in Bilayer. Biophysical Journal, 2014, 106, 301a.	0.5	0
65	Structural Organization of the Mycobacterial Segrosome. Biophysical Journal, 2013, 104, 182a.	0.5	0
66	Low Noise, High throughput Small-Angle Neutron Scattering of Protein in Solution. Biophysical Journal, 2013, 104, 182a.	0.5	0
67	A Tale of Two Dimers: GFP Proteins under Macromolecular Crowding Studied by Small Angle Neutron Scattering. Biophysical Journal, 2012, 102, 43a.	0.5	0
68	A Novel Phase of Compressed Bilayers That Models the Prestalk Transition State of Membrane Fusion. Biophysical Journal, 2012, 102, 48-55.	0.5	15
69	The Internal Organization of Mycobacterial Partition Assembly: Does the DNA Wrap a Protein Core?. PLoS ONE, 2012, 7, e52690.	2.5	9
70	SANS Investigation of the Response of DMPC-DMPG Lipid Bilayers to Membrane-Active Peptides. Biophysical Journal, 2011, 100, 626a.	0.5	0
71	Transmembrane Pores Formed by Human Antimicrobial Peptide LL-37. Biophysical Journal, 2011, 100, 1688-1696.	0.5	156
72	Peptide-Induced Asymmetric Distribution of Charged Lipids in a Vesicle Bilayer Revealed by Small-Angle Neutron Scattering. Journal of Physical Chemistry B, 2011, 115, 9831-9837.	2.6	50

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73	Point Contact between Membranes Precursory to Fusion. Biophysical Journal, 2010, 98, 615a.	0.5	0
74	Evidence for Lipidic Pores. Biophysical Journal, 2009, 96, 426a.	0.5	0
75	Hemifusion of Giant Lipid Vesicles by a Small Transient Osmotic Depletion Pressure. Biophysical Journal, 2009, 96, 359a.	0.5	1
76	Structure of the Alamethicin Pore Reconstructed by X-Ray Diffraction Analysis. Biophysical Journal, 2008, 94, 3512-3522.	0.5	133
77	Structure of transmembrane pore induced by Bax-derived peptide: Evidence for lipidic pores. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17379-17383.	7.1	197