

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	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
2	Transmembrane Pores Formed by Human Antimicrobial Peptide LL-37. Biophysical Journal, 2011, 100, 1688-1696.	0.5	156
3	Structure of the Alamethicin Pore Reconstructed by X-Ray Diffraction Analysis. Biophysical Journal, 2008, 94, 3512-3522.	0.5	133
4	The in vivo structure of biological membranes and evidence for lipid domains. PLoS Biology, 2017, 15, e2002214.	5.6	123
5	The suite of small-angle neutron scattering instruments at Oak Ridge National Laboratory. Journal of Applied Crystallography, 2018, 51, 242-248.	4.5	115
6	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
7	Quantitative Analysis of the Morphology of {101} and {001} Faceted Anatase TiO ₂ Nanocrystals and Its Implication on Photocatalytic Activity. Chemistry of Materials, 2017, 29, 5591-5604.	6.7	65
8	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
9	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
10	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
11	Crystallization-Driven Self-Assembly of Coil-Comb-Shaped Polypeptoid Block Copolymers: Solution Morphology and Self-Assembly Pathways. Macromolecules, 2019, 52, 8867-8877.	4.8	42
12	Informing the improvement of forest products durability using small angle neutron scattering. Cellulose, 2016, 23, 1593-1607.	4.9	41
13	Understanding the Structure and Dynamics of Complex Biomembrane Interactions by Neutron Scattering Techniques. Langmuir, 2020, 36, 15189-15211.	3.5	38
14	Synthesis, Characterization and Applications of a Perdeuterated Amphipol. Journal of Membrane Biology, 2014, 247, 909-924.	2.1	36
15	An ensemble of flexible conformations underlies mechanotransduction by the cadherin-catenin adhesion complex. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21545-21555.	7.1	33
16	drtsans: The data reduction toolkit for small-angle neutron scattering at Oak Ridge National Laboratory. SoftwareX, 2022, 19, 101101.	2.6	32
17	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
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.	13.7	29

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19	Alamethicin Disrupts the Cholesterol Distribution in Dimyristoyl Phosphatidylcholine-Cholesterol Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11200-11208.	2.6	28
20	Interaction of the Antimicrobial Peptide Aurein 1.2 and Charged Lipid Bilayer. <i>Scientific Reports</i> , 2017, 7, 3719.	3.3	28
21	Effect of an Antimicrobial Peptide on Lateral Segregation of Lipids: A Structure and Dynamics Study by Neutron Scattering. <i>Langmuir</i> , 2019, 35, 4152-4160.	3.5	28
22	Neutron Scattering Studies of the Interplay of Amyloid β Peptide(1-40) and An Anionic Lipid 1,2-dimyristoyl-sn-glycero-3-phosphoglycerol. <i>Scientific Reports</i> , 2016, 6, 30983.	3.3	27
23	Structural investigation of cellobiose dehydrogenase IIA: Insights from small angle scattering into intra- and intermolecular electron transfer mechanisms. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 1031-1039.	2.4	26
24	Melittin-induced cholesterol reorganization in lipid bilayer membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2253-2260.	2.6	24
25	Analysis of the solution structure of <i>Thermosynechococcus elongatus</i> photosystem I in n-dodecyl- β -D-maltoside using small-angle neutron scattering and molecular dynamics simulation. <i>Archives of Biochemistry and Biophysics</i> , 2014, 550-551, 50-57.	3.0	23
26	Supramolecular structures of recrystallized starches with amylopectin side chains modified by amylosucrase to different chain lengths. <i>Food Hydrocolloids</i> , 2021, 119, 106830.	10.7	21
27	Amphipol-Trapped ExbA-ExbD Membrane Protein Complex from <i>Escherichia coli</i> : A Biochemical and Structural Case Study. <i>Journal of Membrane Biology</i> , 2014, 247, 1005-1018.	2.1	18
28	Small-angle neutron scattering reveals the assembly of alpha-synuclein in lipid membranes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 1881-1889.	2.3	18
29	The Interaction of Melittin with Dimyristoyl Phosphatidylcholine-Dimyristoyl Phosphatidylserine Lipid Bilayer Membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 2788-2794.	2.6	17
30	Small-Angle Neutron Scattering Reveals Energy Landscape for Rhodopsin Photoactivation. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 7064-7071.	4.6	16
31	Advanced characterization of surface-modified nanoparticles and nanofilled antibacterial dental adhesive resins. <i>Scientific Reports</i> , 2020, 10, 9811.	3.3	16
32	A Novel Phase of Compressed Bilayers That Models the Prestalk Transition State of Membrane Fusion. <i>Biophysical Journal</i> , 2012, 102, 48-55.	0.5	15
33	Investigating the effect of supramolecular gel phase crystallization on gel nucleation. <i>Soft Matter</i> , 2018, 14, 9489-9497.	2.7	15
34	Effect of Temperature and Hydrophilic Ratio on the Structure of Poly(<i>N</i> -vinylcaprolactam)- <i>block</i> -poly(dimethylsiloxane)- <i>block</i> -poly(<i>N</i> -vinylcaprolactam) Polymersomes. <i>ACS Applied Polymer Materials</i> , 2019, 1, 722-736.	4.4	15
35	Differential behavior of sodium laurylsulfate micelles in the presence of nonionic polymers. <i>Journal of Colloid and Interface Science</i> , 2019, 544, 276-283.	9.4	14
36	Analysis of styrene maleic acid alternating copolymer supramolecular assemblies in solution by small angle X-ray scattering. <i>European Polymer Journal</i> , 2019, 111, 178-184.	5.4	14

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37	Conformational Dynamics in the Interaction of SARS-CoV-2 Papain-like Protease with Human Interferon-Stimulated Gene 15 Protein. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5608-5615.	4.6	14
38	Poly(<i>N</i> -vinylpyrrolidone)- <i>block</i> -Poly(dimethylsiloxane)- <i>block</i> -Poly(<i>N</i> -vinylpyrrolidone) Triblock Copolymer Polymersomes for Delivery of PARP1 siRNA to Breast Cancers. <i>ACS Applied Bio Materials</i> , 2022, 5, 1670-1682.	4.6	13
39	Tailoring Biomimetic Phosphorylcholine-Containing Block Copolymers as Membrane-Targeting Cellular Rescue Agents. <i>Biomacromolecules</i> , 2019, 20, 3385-3391.	5.4	11
40	Corrections for the geometric distortion of the tube detectors on SANS instruments at ORNL. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 775, 63-70.	1.6	10
41	Structure and dynamics of lipid membranes interacting with antiviral end-phosphorylated polyethylene glycol block copolymers. <i>Soft Matter</i> , 2020, 16, 983-989.	2.7	10
42	The Internal Organization of Mycobacterial Partition Assembly: Does the DNA Wrap a Protein Core?. <i>PLoS ONE</i> , 2012, 7, e52690.	2.5	9
43	Grazing-Angle Neutron Diffraction Study of the Water Distribution in Membrane Hemifusion: From the Lamellar to Rhombohedral Phase. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5778-5784.	4.6	9
44	CENTAUR™ The small- and wide-angle neutron scattering diffractometer/spectrometer for the Second Target Station of the Spallation Neutron Source. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	9
45	Structure of Diisobutylene Maleic Acid Copolymer (DIBMA) and Its Lipid Particle as a "Stealth" Membrane-Mimetic for Membrane Protein Research. <i>ACS Applied Bio Materials</i> , 2021, 4, 4760-4768.	4.6	8
46	Interaction of a short antimicrobial peptide on charged lipid bilayer: A case study on aurein 1.2 peptide. <i>BBA Advances</i> , 2022, 2, 100045.	1.6	8
47	Small-angle neutron scattering study of a dense microemulsion system formed with an ionic liquid. <i>Soft Matter</i> , 2017, 13, 7154-7160.	2.7	7
48	Alternating crystalline lamellar structures from thermodynamically miscible poly(μ -caprolactone) H/D blends. <i>Polymer</i> , 2019, 175, 320-328.	3.8	5
49	Potentials with small-angle neutron scattering technique for understanding structure-property relation of 3D-printed materials. <i>Polymer Engineering and Science</i> , 2019, 59, E65.	3.1	5
50	Effect of ethoxylation and lauryl alcohol on the self-assembly of sodium laurylsulfate: Significant structural and rheological transformation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 595, 124704.	4.7	5
51	Temperature controlled transformations of giant unilamellar vesicles of amphiphilic triblock copolymers synthesized via microfluidic mixing. <i>Applied Surface Science Advances</i> , 2021, 5, 100101.	6.8	5
52	Fast, quantitative, and nondestructive evaluation of hydrided LWR fuel cladding by small angle incoherent neutron scattering of hydrogen. <i>Journal of Nuclear Materials</i> , 2015, 460, 114-121.	2.7	4
53	A Unified User-Friendly Instrument Control and Data Acquisition System for the ORNL SANS Instrument Suite. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1216.	2.5	4
54	Structural determination of Enzyme-Graphene Nanocomposite Sensor Material. <i>Scientific Reports</i> , 2019, 9, 15519.	3.3	3

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55	Small angle neutron scattering and lipidomic analysis of a native, trimeric PSI-SMALP from a thermophilic cyanobacteria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2022, 1863, 148596.	1.0	3
56	Small Angle Neutron and X-Ray Scattering Reveal Conformational Differences in Detergents Affecting Rhodopsin Activation. <i>Biophysical Journal</i> , 2015, 108, 39a.	0.5	2
57	Nondestructive hydrogen analysis of steam-oxidized Zircaloy-4 by wide-angle neutron scattering. <i>Journal of Nuclear Materials</i> , 2018, 502, 191-200.	2.7	2
58	Hemifusion of Giant Lipid Vesicles by a Small Transient Osmotic Depletion Pressure. <i>Biophysical Journal</i> , 2009, 96, 359a.	0.5	1
59	Nondestructive Evaluation on Hydrided LWR Fuel Cladding by Small Angle Incoherent Neutron Scattering of Hydrogen. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1653, 1.	0.1	1
60	G-Protein-Coupled Receptor Activation Investigated using Small-Angle Neutron Scattering. <i>Biophysical Journal</i> , 2014, 106, 634a.	0.5	1
61	Redistribution of Cholesterol in Model Lipid Membranes in Response to Alamethicin. <i>Biophysical Journal</i> , 2014, 106, 294a.	0.5	1
62	Small Angle Neutron Scattering Studies of Glucose Oxidase Immobilized on Single Layer Graphene: Relevant to Protein Microfluidic Chip. <i>Biophysical Journal</i> , 2015, 108, 327a-328a.	0.5	1
63	Interaction of Aurein 1.2 and Charged Lipid Bilayers. <i>Biophysical Journal</i> , 2017, 112, 378a-379a.	0.5	1
64	A Two-Fold Structural Classification Method for Determining the Accurate Ensemble of Protein Structures. <i>Communications in Computational Physics</i> , 2019, 25, .	1.7	1
65	Evidence for Lipidic Pores. <i>Biophysical Journal</i> , 2009, 96, 426a.	0.5	0
66	Point Contact between Membranes Precursory to Fusion. <i>Biophysical Journal</i> , 2010, 98, 615a.	0.5	0
67	SANS Investigation of the Response of DMPC-DMPG Lipid Bilayers to Membrane-Active Peptides. <i>Biophysical Journal</i> , 2011, 100, 626a.	0.5	0
68	A Tale of Two Dimers: GFP Proteins under Macromolecular Crowding Studied by Small Angle Neutron Scattering. <i>Biophysical Journal</i> , 2012, 102, 43a.	0.5	0
69	Structural Organization of the Mycobacterial Segrosome. <i>Biophysical Journal</i> , 2013, 104, 182a.	0.5	0
70	Low Noise, High throughput Small-Angle Neutron Scattering of Protein in Solution. <i>Biophysical Journal</i> , 2013, 104, 182a.	0.5	0
71	Interplay Between Amyloid Beta-Peptide and Cholesterol in Bilayer. <i>Biophysical Journal</i> , 2014, 106, 301a.	0.5	0
72	Neutron Scattering to Study Membrane Systems: From Model Membranes to Living Cells. <i>Biophysical Journal</i> , 2017, 112, 224a.	0.5	0

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73	Structural Fluctuations in Rhodopsin Activation Revealed by Neutron Scattering. <i>Biophysical Journal</i> , 2019, 116, 53a.	0.5	0
74	Aurein 1.2, a Short and Potent Antimicrobial Peptide, Changes Charged Lipid Distribution and Lipid Dynamics in Bilayer. <i>Biophysical Journal</i> , 2019, 116, 86a.	0.5	0
75	Highly Dynamic C99 Oligomeric Structure in Cholesterol and Sphingomyelin Rich Bicelles. <i>Biophysical Journal</i> , 2020, 118, 12a.	0.5	0
76	Conceptual design of a small- and wide-angle neutron scattering diffractometer/spectrometer for the Second Target Station of the SNS: Centaur. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2021, 77, a24-a24.	0.1	0
77	Real-time pressure-temperature reaction studies of biological systems using small-angle neutron scattering technique. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2020, 76, a133-a133.	0.1	0