

Christopher B Stanley

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

2,845
citations

201575

27
h-index

189801

50
g-index

80
all docs

80
docs citations

80
times ranked

4130
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleophosmin integrates within the nucleolus via multi-modal interactions with proteins displaying R-rich linear motifs and rRNA. <i>ELife</i> , 2016, 5, .	2.8	395
2	Self-interaction of NPM1 modulates multiple mechanisms of liquid-liquid phase separation. <i>Nature Communications</i> , 2018, 9, 842.	5.8	285
3	Polymer Chain Shape of Poly(3-alkylthiophenes) in Solution Using Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2013, 46, 1899-1907.	2.2	197
4	C9orf72 Poly(PR) Dipeptide Repeats Disturb Biomolecular Phase Separation and Disrupt Nucleolar Function. <i>Molecular Cell</i> , 2019, 74, 713-728.e6.	4.5	128
5	The in vivo structure of biological membranes and evidence for lipid domains. <i>PLoS Biology</i> , 2017, 15, e2002214.	2.6	123
6	The suite of small-angle neutron scattering instruments at Oak Ridge National Laboratory. <i>Journal of Applied Crystallography</i> , 2018, 51, 242-248.	1.9	115
7	Mechanical Properties of Nanoscopic Lipid Domains. <i>Journal of the American Chemical Society</i> , 2015, 137, 15772-15780.	6.6	108
8	Structure and Hydration of Highly-Branched, Monodisperse Phytoglycogen Nanoparticles. <i>Biomacromolecules</i> , 2016, 17, 735-743.	2.6	70
9	Description of Hydration Water in Protein (Green Fluorescent Protein) Solution. <i>Journal of the American Chemical Society</i> , 2017, 139, 1098-1105.	6.6	68
10	Intrinsically Disordered Protein Exhibits Both Compaction and Expansion under Macromolecular Crowding. <i>Biophysical Journal</i> , 2018, 114, 1067-1079.	0.2	67
11	DNA Cholesteric Pitch as a Function of Density and Ionic Strength. <i>Biophysical Journal</i> , 2005, 89, 2552-2557.	0.2	63
12	Measuring Osmotic Pressure of Poly(ethylene glycol) Solutions by Sedimentation Equilibrium Ultracentrifugation. <i>Macromolecules</i> , 2003, 36, 6888-6893.	2.2	53
13	Neutron scattering in the biological sciences: progress and prospects. <i>Acta Crystallographica Section D: Structural Biology</i> , 2018, 74, 1129-1168.	1.1	47
14	Properties of Polyvinylpyrrolidone in a Deep Eutectic Solvent. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3253-3259.	1.1	46
15	Preferential Hydration of DNA: The Magnitude and Distance Dependence of Alcohol and Polyol Interactions. <i>Biophysical Journal</i> , 2006, 91, 912-920.	0.2	45
16	<i>Bacillus subtilis</i> Lipid Extract, A Branched-Chain Fatty Acid Model Membrane. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4214-4217.	2.1	42
17	Fingerprinting Molecular Relaxation in Deformed Polymers. <i>Physical Review X</i> , 2017, 7, .	2.8	41
18	Peptide-Induced Lipid Flip-Flop in Asymmetric Liposomes Measured by Small Angle Neutron Scattering. <i>Langmuir</i> , 2019, 35, 11735-11744.	1.6	41

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19	Lipid Rafts: Buffers of Cell Membrane Physical Properties. <i>Journal of Physical Chemistry B</i> , 2019, 123, 2050-2056.	1.2	40
20	Evidence for water structuring forces between surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 551-556.	3.4	37
21	Uncovering a membrane-distal conformation of KRAS available to recruit RAF to the plasma membrane. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24258-24268.	3.3	34
22	An ensemble of flexible conformations underlies mechanotransduction by the cadherin-catenin adhesion complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21545-21555.	3.3	33
23	drtsans: The data reduction toolkit for small-angle neutron scattering at Oak Ridge National Laboratory. <i>SoftwareX</i> , 2022, 19, 101101.	1.2	32
24	Phosphatidylinositol 4,5-Bisphosphate Clusters the Cell Adhesion Molecule CD44 and Assembles a Specific CD44-Ezrin Heterocomplex, as Revealed by Small Angle Neutron Scattering. <i>Journal of Biological Chemistry</i> , 2015, 290, 6639-6652.	1.6	29
25	Small-angle neutron scattering and the errors in protein structures that arise from uncorrected background and intermolecular interactions. <i>Journal of Applied Crystallography</i> , 2008, 41, 456-465.	1.9	28
26	Protein Structure and Hydration Probed by SANS and Osmotic Stress. <i>Biophysical Journal</i> , 2008, 94, 2777-2789.	0.2	28
27	Osmotically Induced Helix-Coil Transition in Poly(Glutamic Acid). <i>Biophysical Journal</i> , 2008, 94, 4427-4434.	0.2	28
28	Conformational Flexibility Enables the Function of a BECN1 Region Essential for Starvation-Mediated Autophagy. <i>Biochemistry</i> , 2016, 55, 1945-1958.	1.2	28
29	Methanol Accelerates DMPC Flip-Flop and Transfer: A SANS Study on Lipid Dynamics. <i>Biophysical Journal</i> , 2019, 116, 755-759.	0.2	28
30	Using GANs with adaptive training data to search for new molecules. <i>Journal of Cheminformatics</i> , 2021, 13, 14.	2.8	27
31	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.	1.1	26
32	Deciphering Melatonin-Stabilized Phase Separation in Phospholipid Bilayers. <i>Langmuir</i> , 2019, 35, 12236-12245.	1.6	25
33	Biochemical and structural analyses reveal that the tumor suppressor neurofibromin (NF1) forms a high-affinity dimer. <i>Journal of Biological Chemistry</i> , 2020, 295, 1105-1119.	1.6	25
34	Biochemical and structural analyses reveal that the tumor suppressor neurofibromin (NF1) forms a high-affinity dimer. <i>Journal of Biological Chemistry</i> , 2020, 295, 1105-1119.	1.6	25
35	Understanding inelastically scattered neutrons from water on a time-of-flight small-angle neutron scattering (SANS) instrument. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 737, 42-46.	0.7	24
36	Poly(ethylene glycol)s in Semidilute Regime: Radius of Gyration in the Bulk and Partitioning into a Nanopore. <i>Macromolecules</i> , 2017, 50, 2477-2483.	2.2	24

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37	Molecular Conformation of the Full-Length Tumor Suppressor NF2/Merlin A Small-Angle Neutron Scattering Study. <i>Journal of Molecular Biology</i> , 2014, 426, 2755-2768.	2.0	23
38	Assessing the Interaction of Urea and Protein-Stabilizing Osmolytes with the Nonpolar Surface of Hydroxypropylcellulose. <i>Biochemistry</i> , 2008, 47, 6711-6718.	1.2	22
39	Structural Formation of Huntingtin Exon 1 Aggregates Probed by Small-Angle Neutron Scattering. <i>Biophysical Journal</i> , 2011, 100, 2504-2512.	0.2	22
40	Structural relaxation, viscosity, and network connectivity in a hydrogen bonding liquid. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25859-25869.	1.3	22
41	Structural studies of <i>Neurospora crassa</i> LPMO9D and redox partner CDH1A using neutron crystallography and small-angle scattering. <i>Carbohydrate Research</i> , 2017, 448, 200-204.	1.1	19
42	β -Catenin Structure and Nanoscale Dynamics in Solution and in Complex with F-Actin. <i>Biophysical Journal</i> , 2018, 115, 642-654.	0.2	19
43	Structure, Hydration, and Interactions of Native and Hydrophobically Modified Phytoglycogen Nanoparticles. <i>Biomacromolecules</i> , 2020, 21, 4053-4062.	2.6	19
44	Effects of Macromolecular Crowding on the Structure of a Protein Complex: A Small-Angle Scattering Study of Superoxide Dismutase. <i>Biophysical Journal</i> , 2015, 108, 967-974.	0.2	17
45	Folding propensity of intrinsically disordered proteins by osmotic stress. <i>Molecular BioSystems</i> , 2016, 12, 3695-3701.	2.9	17
46	Generalizable coordination of large multiscale workflows. , 2021, , .		17
47	Investigating the Structural Impact of the Glutamine Repeat in Huntingtin Assembly. <i>Biophysical Journal</i> , 2014, 107, 411-421.	0.2	16
48	Impact of Surface Active Compounds on Iron Catalyzed Oxidation of Methyl Linolenate in AOT Water Hexadecane Systems. <i>Food Biophysics</i> , 2007, 2, 57-66.	1.4	15
49	Periplasmic Binding Protein Dimer Has a Second Allosteric Event Tied to Ligand Binding. <i>Biochemistry</i> , 2017, 56, 5328-5337.	1.2	14
50	Charge segregation in weakly ionized microgels. <i>Physical Review E</i> , 2017, 95, 012608.	0.8	13
51	Scaling Behavior of Anisotropy Relaxation in Deformed Polymers. <i>Physical Review Letters</i> , 2018, 121, 117801.	2.9	13
52	Controllable Activation of Nanoscale Dynamics in a Disordered Protein Alters Binding Kinetics. <i>Journal of Molecular Biology</i> , 2017, 429, 987-998.	2.0	12
53	NADPH-dependent sulfite reductase flavoprotein adopts an extended conformation unique to this diflavin reductase. <i>Journal of Structural Biology</i> , 2019, 205, 170-179.	1.3	12
54	Synthesis and characterization of poly[1,5-(3,7-di-tert-butyl)naphthyleneethynylene] by alkyne metathesis. <i>Macromolecular Rapid Communications</i> , 2000, 21, 493-495.	2.0	11

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55	Small Molecule Binding, Docking, and Characterization of the Interaction between Pth1 and Peptidyl-tRNA. <i>International Journal of Molecular Sciences</i> , 2013, 14, 22741-22752.	1.8	10
56	Small-angle neutron scattering solution structures of NADPH-dependent sulfite reductase. <i>Journal of Structural Biology</i> , 2021, 213, 107724.	1.3	10
57	Molecular details of ligand selectivity determinants in a promiscuous $\hat{1}^2$ -glucan periplasmic binding protein. <i>BMC Structural Biology</i> , 2013, 13, 18.	2.3	8
58	Dynamic structure of the full-length scaffolding protein NHERF1 influences signaling complex assembly. <i>Journal of Biological Chemistry</i> , 2019, 294, 11297-11310.	1.6	7
59	Small Angle Neutron Scattering Studies of R67 Dihydrofolate Reductase, a Tetrameric Protein with Intrinsically Disordered N-Termini. <i>Biochemistry</i> , 2017, 56, 5886-5899.	1.2	6
60	Optimal vocabulary selection approaches for privacy-preserving deep NLP model training for information extraction and cancer epidemiology. <i>Cancer Biomarkers</i> , 2022, 33, 185-198.	0.8	6
61	Characterization of an Extensive Interface on Vitronectin for Binding to Plasminogen Activator Inhibitor-1: Adoption of Structure in an Intrinsically Disordered Region. <i>Biochemistry</i> , 2019, 58, 5117-5134.	1.2	5
62	Electrostatically driven self-assembly of hybrid elastin-DNA liquid crystals. <i>Soft Matter</i> , 2008, 4, 241-244.	1.2	4
63	A nucleotide-dependent oligomerization of the Escherichia coli replication initiator DnaA requires residue His136 for remodeling of the chromosomal origin. <i>Nucleic Acids Research</i> , 2019, 48, 200-211.	6.5	4
64	Effect of stereochemistry on nanoscale assembly of ABA triblock copolymers with crystallizable blocks. <i>Polymer</i> , 2021, 223, 123683.	1.8	3
65	QUASI-ANHARMONIC ANALYSIS REVEALS INTERMEDIATE STATES IN THE NUCLEAR CO-ACTIVATOR RECEPTOR BINDING DOMAIN ENSEMBLE. , 2011, , .		3
66	How Distinct Structural Flexibility within SARS-CoV-2 Spike Protein Reveals Potential Therapeutic Targets. , 2021, , .		3
67	Neutron scattering maps the higher-order assembly of NADPH-dependent assimilatory sulfite reductase. <i>Biophysical Journal</i> , 2022, 121, 1799-1812.	0.2	3
68	Solid-State Complexes of Hexafluoro-2-propanol with Benzophenone-Containing Polyimides. <i>Macromolecules</i> , 2001, 34, 8730-8734.	2.2	2
69	Computer-aided Abnormality Detection in Chest Radiographs in a Clinical Setting via Domain-adaptation. , 2021, , .		1
70	Secure Collaborative Environment for Seamless Sharing of Scientific Knowledge. <i>Communications in Computer and Information Science</i> , 2022, , 139-156.	0.4	1
71	Multi-scale applications of neutron scattering and imaging. , 2014, , .		0
72	Revealing the structural details of huntingtin fibrils using small-angle neutron scattering. , 2014, , .		0

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73	Optimal Balance of Privacy and Utility with Differential Privacy Deep Learning Frameworks. , 2021, , .		0