Steve P Meisburger

List of Publications by Year
in descending order

30 papers	1,444 citations	471509 17 h-index	580821 25 g-index
32 all docs	32 docs citations	32 times ranked	1765 citing authors

#	Article	IF	Citations
1	REGALS: a general method to deconvolve X-ray scattering data from evolving mixtures. IUCrJ, 2021, 8, 225-237.	2.2	23
2	Correlated Motions in Structural Biology. Biochemistry, 2021, 60, 2331-2340.	2.5	18
3	Diffuse X-ray scattering from correlated motions in a protein crystal. Nature Communications, 2020, 11, 1271.	12.8	37
4	The phenylketonuria-associated substitution R68S converts phenylalanine hydroxylase to a constitutively active enzyme but reduces its stability. Journal of Biological Chemistry, 2019, 294, 4359-4367.	3.4	8
5	An endogenous dAMP ligand in Bacillus subtilis class Ib RNR promotes assembly of a noncanonical dimer for regulation by dATP. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4594-E4603.	7.1	18
6	Visualizing single-stranded nucleic acids in solution. Nucleic Acids Research, 2017, 45, gkw1297.	14.5	25
7	The impact of base stacking on the conformations and electrostatics of single-stranded DNA. Nucleic Acids Research, 2017, 45, 3932-3943.	14.5	47
8	X-ray Scattering Studies of Protein Structural Dynamics. Chemical Reviews, 2017, 117, 7615-7672.	47.7	83
9	Asymmetric DNA Unwrapping Drives Sequential Dimer Release in Nucleosomes. Biophysical Journal, 2017, 112, 370a-371a.	0.5	0
10	Conformations of Single-Stranded Nucleic Acids in Solution. Biophysical Journal, 2017, 112, 473a-474a.	0.5	0
11	Correlated Motions from Crystallography beyond Diffraction. Accounts of Chemical Research, 2017, 50, 580-583.	15.6	11
12	Asymmetric unwrapping of nucleosomal DNA propagates asymmetric opening and dissociation of the histone core. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 334-339.	7.1	89
13	Full-length model of the human galectin-4 and insights into dynamics of inter-domain communication. Scientific Reports, 2016, 6, 33633.	3.3	15
14	Domain Movements upon Activation of Phenylalanine Hydroxylase Characterized by Crystallography and Chromatography-Coupled Small-Angle X-ray Scattering. Journal of the American Chemical Society, 2016, 138, 6506-6516.	13.7	100
15	A microfabricated fixed path length silicon sample holder improves background subtraction for cryoSAXS. Journal of Applied Crystallography, 2015, 48, 227-237.	4.5	3
16	Determining the Locations of Ions and Water around DNA from X-Ray Scattering Measurements. Biophysical Journal, 2015, 108, 2886-2895.	0.5	52
17	Fixed Path Length Sample Holders Enable Robust Cryosaxs Measurements from Sub-Microliter Sample Volumes. Biophysical Journal, 2015, 108, 620a.	0.5	0
18	Accurate small and wide angle x-ray scattering profiles from atomic models of proteins and nucleic acids. Journal of Chemical Physics, 2014, 141, 22D508.	3.0	33

#	Article	IF	Citations
19	Revealing transient structures of nucleosomes as DNA unwinds. Nucleic Acids Research, 2014, 42, 8767-8776.	14.5	73
20	Breaking the Radiation Damage Limit with Cryo-SAXS. Biophysical Journal, 2013, 104, 227-236.	0.5	53
21	Introducing Cryo-SAXS for Measuring Low Resolution Macromolecular Structure without Radiation Damage. Biophysical Journal, 2013, 104, 502a.	0.5	0
22	Polyelectrolyte properties of single stranded DNA measured using SAXS and singleâ€molecule FRET: Beyond the wormlike chain model. Biopolymers, 2013, 99, 1032-1045.	2.4	34
23	Ionic strength-dependent persistence lengths of single-stranded RNA and DNA. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 799-804.	7.1	322
24	Small-Angle X-ray Scattering and Single-Molecule FRET Spectroscopy Produce Highly Divergent Views of the Low-Denaturant Unfolded State. Journal of Molecular Biology, 2012, 418, 226-236.	4.2	92
25	RNA and Its Ionic Cloud: Solution Scattering Experiments and Atomically Detailed Simulations. Biophysical Journal, 2012, 102, 819-828.	0.5	89
26	Effects of a Protecting Osmolyte on the Ion Atmosphere Surrounding DNA Duplexes. Biochemistry, 2011, 50, 8540-8547.	2.5	16
27	Double-Stranded RNA Resists Condensation. Physical Review Letters, 2011, 106, 108101.	7.8	47
28	Counting Ions around DNA with Anomalous Small-Angle X-ray Scattering. Journal of the American Chemical Society, 2010, 132, 16334-16336.	13.7	83
29	The Role of Helix Topology and Counterion Distributions in RNA Interactions. Biophysical Journal, 2010, 98, 471a.	0.5	0
30	Both helix topology and counterion distribution contribute to the more effective charge screening in dsRNA compared with dsDNA. Nucleic Acids Research, 2009, 37, 3887-3896.	14.5	72