

# Steve P Meisburger

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	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
4	RNA and Its Ionic Cloud: Solution Scattering Experiments and Atomically Detailed Simulations. Biophysical Journal, 2012, 102, 819-828.	0.5	89
5	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
6	Counting Ions around DNA with Anomalous Small-Angle X-ray Scattering. Journal of the American Chemical Society, 2010, 132, 16334-16336.	13.7	83
7	X-ray Scattering Studies of Protein Structural Dynamics. Chemical Reviews, 2017, 117, 7615-7672.	47.7	83
8	Revealing transient structures of nucleosomes as DNA unwinds. Nucleic Acids Research, 2014, 42, 8767-8776.	14.5	73
9	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
10	Breaking the Radiation Damage Limit with Cryo-SAXS. Biophysical Journal, 2013, 104, 227-236.	0.5	53
11	Determining the Locations of Ions and Water around DNA from X-Ray Scattering Measurements. Biophysical Journal, 2015, 108, 2886-2895.	0.5	52
12	Double-Stranded RNA Resists Condensation. Physical Review Letters, 2011, 106, 108101.	7.8	47
13	The impact of base stacking on the conformations and electrostatics of single-stranded DNA. Nucleic Acids Research, 2017, 45, 3932-3943.	14.5	47
14	Diffuse X-ray scattering from correlated motions in a protein crystal. Nature Communications, 2020, 11, 1271.	12.8	37
15	Polyelectrolyte properties of single stranded DNA measured using SAXS and single-molecule FRET: Beyond the wormlike chain model. Biopolymers, 2013, 99, 1032-1045.	2.4	34
16	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
17	Visualizing single-stranded nucleic acids in solution. Nucleic Acids Research, 2017, 45, gkw1297.	14.5	25
18	<i>REGALS</i>: a general method to deconvolve X-ray scattering data from evolving mixtures. IUCr, 2021, 8, 225-237.	2.2	23

#	ARTICLE	IF	CITATIONS
19	An endogenous dAMP ligand in <i>Bacillus subtilis</i> class Ib RNR promotes assembly of a noncanonical dimer for regulation by dATP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4594-E4603.	7.1	18
20	Correlated Motions in Structural Biology. <i>Biochemistry</i> , 2021, 60, 2331-2340.	2.5	18
21	Effects of a Protecting Osmolyte on the Ion Atmosphere Surrounding DNA Duplexes. <i>Biochemistry</i> , 2011, 50, 8540-8547.	2.5	16
22	Full-length model of the human galectin-4 and insights into dynamics of inter-domain communication. <i>Scientific Reports</i> , 2016, 6, 33633.	3.3	15
23	Correlated Motions from Crystallography beyond Diffraction. <i>Accounts of Chemical Research</i> , 2017, 50, 580-583.	15.6	11
24	The phenylketonuria-associated substitution R68S converts phenylalanine hydroxylase to a constitutively active enzyme but reduces its stability. <i>Journal of Biological Chemistry</i> , 2019, 294, 4359-4367.	3.4	8
25	A microfabricated fixed path length silicon sample holder improves background subtraction for cryoSAXS. <i>Journal of Applied Crystallography</i> , 2015, 48, 227-237.	4.5	3
26	The Role of Helix Topology and Counterion Distributions in RNA Interactions. <i>Biophysical Journal</i> , 2010, 98, 471a.	0.5	0
27	Introducing Cryo-SAXS for Measuring Low Resolution Macromolecular Structure without Radiation Damage. <i>Biophysical Journal</i> , 2013, 104, 502a.	0.5	0
28	Fixed Path Length Sample Holders Enable Robust Cryosaxs Measurements from Sub-Microliter Sample Volumes. <i>Biophysical Journal</i> , 2015, 108, 620a.	0.5	0
29	Asymmetric DNA Unwrapping Drives Sequential Dimer Release in Nucleosomes. <i>Biophysical Journal</i> , 2017, 112, 370a-371a.	0.5	0
30	Conformations of Single-Stranded Nucleic Acids in Solution. <i>Biophysical Journal</i> , 2017, 112, 473a-474a.	0.5	0