

# Joseph E Curtis

## List of Publications by Year in descending order

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43  
papers

1,385  
citations

393982

19  
h-index

344852

36  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1649  
citing authors

#	ARTICLE	IF	CITATIONS
1	Styrene- <i>l</i> -Maleic Acid Copolymer Nanodiscs to Determine the Shape of Membrane Proteins. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1034-1044.	1.2	1
2	Effects of Monovalent Salt on Protein-Protein Interactions of Dilute and Concentrated Monoclonal Antibody Formulations. <i>Antibodies</i> , 2022, 11, 24.	1.2	6
3	Counting the Water: Characterize the Hydration Level of Aluminum Adjuvants Using Contrast Matching Small-Angle Neutron Scattering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, , 129285.	2.3	2
4	Structural Characterization and Modeling of a Respiratory Syncytial Virus Fusion Glycoprotein Nanoparticle Vaccine in Solution. <i>Molecular Pharmaceutics</i> , 2021, 18, 359-376.	2.3	12
5	Phase Behavior of Poloxamer 188 Aqueous Solutions at Subzero Temperatures: A Neutron and X-ray Scattering Study. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1476-1486.	1.2	8
6	Intermediate scattering functions of a rigid body monoclonal antibody protein in solution studied by dissipative particle dynamic simulation. <i>Structural Dynamics</i> , 2021, 8, 024102.	0.9	3
7	Computational Characterization of Antibody-Excipient Interactions for Rational Excipient Selection Using the Site Identification by Ligand Competitive Saturation-Biologics Approach. <i>Molecular Pharmaceutics</i> , 2020, 17, 4323-4333.	2.3	20
8	BEES: Bayesian Ensemble Estimation from SAS. <i>Biophysical Journal</i> , 2019, 117, 399-407.	0.2	7
9	Studying Excipient Modulated Physical Stability and Viscosity of Monoclonal Antibody Formulations Using Small-Angle Scattering. <i>Molecular Pharmaceutics</i> , 2019, 16, 4319-4338.	2.3	36
10	Evaluating the Effects of Hinge Flexibility on the Solution Structure of Antibodies at Concentrated Conditions. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 1663-1674.	1.6	10
11	Characterization of the NISTmAb Reference Material using small-angle scattering and molecular simulation. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2161-2171.	1.9	19
12	Characterization of the NISTmAb Reference Material using small-angle scattering and molecular simulation. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2141-2159.	1.9	19
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	A methodology to calculate small-angle scattering profiles of macromolecular solutions from molecular simulations in the grand-canonical ensemble. <i>Journal of Chemical Physics</i> , 2018, 149, 084203.	1.2	2
15	Relaxation dynamics of saturated and unsaturated oriented lipid bilayers. <i>Soft Matter</i> , 2018, 14, 6119-6127.	1.2	13
16	Investigating Structure and Dynamics of Proteins in Amorphous Phases Using Neutron Scattering. <i>Computational and Structural Biotechnology Journal</i> , 2017, 15, 117-130.	1.9	43
17	Combined Monte Carlo/torsion-angle molecular dynamics for ensemble modeling of proteins, nucleic acids and carbohydrates. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 73, 179-190.	1.3	14
18	Characterization of Monoclonal Antibody-Protein Antigen Complexes Using Small-Angle Scattering and Molecular Modeling. <i>Antibodies</i> , 2017, 6, 25.	1.2	9

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19	Monte Carlo simulation algorithm for Bâ€DNA. <i>Journal of Computational Chemistry</i> , 2016, 37, 2553-2563.	1.5	8
20	Role of Molecular Flexibility and Colloidal Descriptions of Proteins in Crowded Environments from Small-Angle Scattering. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12511-12518.	1.2	30
21	Deuterium Labeling Together with Contrast Variation Small-Angle Neutron Scattering Suggests How Skp Captures and Releases Unfolded Outer Membrane Proteins. <i>Methods in Enzymology</i> , 2016, 566, 159-210.	0.4	46
22	Linkage-specific conformational ensembles of non-canonical polyubiquitin chains. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5771-5788.	1.3	58
23	Atomistic modelling of scattering data in the Collaborative Computational Project for Small Angle Scattering (CCP-SAS). <i>Journal of Applied Crystallography</i> , 2016, 49, 1861-1875.	1.9	67
24	The GenApp framework integrated with Airavata for managed compute resource submissions. <i>Concurrency Computation Practice and Experience</i> , 2015, 27, 4292-4303.	1.4	11
25	Structural model of an mRNA in complex with the bacterial chaperone Hfq. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17134-17139.	3.3	70
26	SLDMOL: A tool for the structural characterization of thermally disordered membrane proteins. <i>Computer Physics Communications</i> , 2014, 185, 3010-3015.	3.0	4
27	Structures of Tral in solution. <i>Journal of Molecular Modeling</i> , 2014, 20, 2308.	0.8	4
28	Observation of Small Cluster Formation in Concentrated Monoclonal Antibody Solutions and Its Implications to Solution Viscosity. <i>Biophysical Journal</i> , 2014, 106, 1763-1770.	0.2	146
29	Probing the Average Local Structure of Biomolecules Using Small-Angle Scattering and Scaling Laws. <i>Biophysical Journal</i> , 2014, 106, 2474-2482.	0.2	11
30	GenApp Module Execution and Airavata Integration. , 2014, , .		2
31	Role of Water and Ions on the Dynamical Transition of RNA. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3325-3329.	2.1	11
32	Small-Angle Neutron Scattering Study of a Monoclonal Antibody Using Free-Energy Constraints. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14029-14038.	1.2	45
33	Rapid and accurate calculation of small-angle scattering profiles using the golden ratio. <i>Journal of Applied Crystallography</i> , 2013, 46, 1171-1177.	1.9	40
34	Protein structure and interactions in the solid state studied by small-angle neutron scattering. <i>Faraday Discussions</i> , 2012, 158, 285.	1.6	17
35	Pronounced Microheterogeneity in a Sorbitolâ€Water Mixture Observed through Variable Temperature Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4439-4447.	1.2	36
36	Solution structure and small angle scattering analysis of Tral (381â€569). <i>Proteins: Structure, Function and Bioinformatics</i> , 2012, 80, 2250-2261.	1.5	5

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37	Small-Angle Neutron Scattering Study of Protein Crowding in Liquid and Solid Phases: Lysozyme in Aqueous Solution, Frozen Solution, and Carbohydrate Powders. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9653-9667.	1.2	43
38	SASSIE: A program to study intrinsically disordered biological molecules and macromolecular ensembles using experimental scattering restraints. <i>Computer Physics Communications</i> , 2012, 183, 382-389.	3.0	118
39	HIV-1 Gag Extension: Conformational Changes Require Simultaneous Interaction with Membrane and Nucleic Acid. <i>Journal of Molecular Biology</i> , 2011, 406, 205-214.	2.0	103
40	Neutron Reflectometry Study of the Conformation of HIV Nef Bound to Lipid Membranes. <i>Biophysical Journal</i> , 2010, 99, 1940-1948.	0.2	22
41	Electrostatic Interactions and Binding Orientation of HIV-1 Matrix Studied by Neutron Reflectivity. <i>Biophysical Journal</i> , 2010, 99, 2516-2524.	0.2	49
42	Conformation of the HIV-1 Gag Protein in Solution. <i>Journal of Molecular Biology</i> , 2007, 365, 812-824.	2.0	126
43	Inertial Suppression of Protein Dynamics in a Binary Glycerol-Trehalose Glass. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22953-22956.	1.2	42