

Electrostatic Interactions in Protein Structure, Folding,

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Liquid-Liquid Phase Separation of Patchy Particles Illuminates Diverse Effects of Regulatory Components on Protein Droplet Formation. <i>Scientific Reports</i> , 2018, 8, 6728.	1.6	100
2	Why Do Disordered and Structured Proteins Behave Differently in Phase Separation?. <i>Trends in Biochemical Sciences</i> , 2018, 43, 499-516.	3.7	114
3	Effect of crowding on protein-protein association in diffusion-limited regime. <i>Journal of Physics: Conference Series</i> , 2018, 1035, 012006.	0.3	0
4	Quantifying the protein-protein association rate in polymer solutions: crowding-induced diffusion and energy modifications. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27937-27948.	1.3	8
5	Wetting of the Protein Active Site Leads to Non-Marcusian Reaction Kinetics. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10490-10495.	1.2	11
6	Dipolar susceptibility of protein hydration shells. <i>Chemical Physics Letters</i> , 2018, 713, 210-214.	1.2	16
7	Printed, Flexible pH Sensor Hydrogels for Wet Environments. <i>Advanced Materials Technologies</i> , 2018, 3, 1800137.	3.0	34
8	CRIB effector disorder: exquisite function from chaos. <i>Biochemical Society Transactions</i> , 2018, 46, 1289-1302.	1.6	6
9	Phosphorylâ€Transfer Reaction in RNA under Alkaline Conditions. <i>Chemistry - A European Journal</i> , 2018, 24, 13565-13572.	1.7	0
10	Electrostatic control of calcineurin's intrinsically-disordered regulatory domain binding to calmodulin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2651-2659.	1.1	9
11	Understanding the pH-Dependent Reaction Mechanism of a Glycoside Hydrolase Using High-Resolution X-ray and Neutron Crystallography. <i>ACS Catalysis</i> , 2018, 8, 8058-8069.	5.5	15
12	Hierarchical Assemblies of Supramolecular Coordination Complexes. <i>Accounts of Chemical Research</i> , 2018, 51, 2047-2063.	7.6	265
13	Mechanistic Study of Protein Adsorption on Mesoporous TiO ₂ in Aqueous Buffer Solutions. <i>Langmuir</i> , 2019, 35, 11037-11047.	1.6	8
14	Structural Changes in the Acceptor Site of Photosystem II upon Ca ²⁺ /Sr ²⁺ Exchange in the Mn ₄ CaO ₅ Cluster Site and the Possible Long-Range Interactions. <i>Biomolecules</i> , 2019, 9, 371.	1.8	2
15	Polyelectrolyte complexes of polyacrylic acid with oligovalent organic counterions. <i>Journal of Molecular Liquids</i> , 2019, 293, 111418.	2.3	4
16	Interplay between Short-Range Attraction and Long-Range Repulsion Controls Reentrant Liquid Condensation of Ribonucleoprotein-RNA Complexes. <i>Journal of the American Chemical Society</i> , 2019, 141, 14593-14602.	6.6	144
17	Whole-Cell Models and Simulations in Molecular Detail. <i>Annual Review of Cell and Developmental Biology</i> , 2019, 35, 191-211.	4.0	47
18	An arsenal of methods for the experimental characterization of intrinsically disordered proteins â€How to choose and combine them?. <i>Archives of Biochemistry and Biophysics</i> , 2019, 676, 108055.	1.4	37

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19	Hydrogen-Bonding Motifs and Proton-Transfer Dynamics in Electronically Excited 6-Hydroxy-2-formylfulvene. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6506-6526.	1.1	3
20	Chirality-Dependent Adsorption between Amphipathic Peptide and POPC Membrane. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4760.	1.8	11
21	Polyphosphates diminish solubility of a globular protein and thereby promote amyloid aggregation. <i>Journal of Biological Chemistry</i> , 2019, 294, 15318-15329.	1.6	8
22	Brownian Dynamics Simulations of Biological Molecules. <i>Trends in Chemistry</i> , 2019, 1, 727-738.	4.4	37
23	Solvent Screening in Zwitterions Analyzed with the Fragment Molecular Orbital Method. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5404-5416.	2.3	24
24	Tuning of salt separation efficiency by flow rate control in microfluidic dynamic dialysis. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	4
25	Computational Investigation on Electrostatic Loop Mutants Instigating Destabilization and Aggregation on Human SOD1 Protein Causing Amyotrophic Lateral Sclerosis. <i>Protein Journal</i> , 2019, 38, 37-49.	0.7	8
26	Self-assembly of plant protein fibrils interacting with superparamagnetic iron oxide nanoparticles. <i>Scientific Reports</i> , 2019, 9, 8939.	1.6	20
27	Recent advances in fabrication strategies and protein preservation application of protein-nanomaterial hybrids: Integration and synergy. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 434-443.	5.8	12
28	AFM Study of pH-Dependent Adhesion of Single Protein to TiO ₂ Surface. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900411.	1.9	19
29	Designed Mutations Alter the Binding Pathways of an Intrinsically Disordered Protein. <i>Scientific Reports</i> , 2019, 9, 6172.	1.6	18
30	NiCo ₂ O ₄ spinel embedded with carbon nanotubes derived from bimetallic NiCo metal-organic framework for the ultrasensitive detection of human immune deficiency virus-1 gene. <i>Biosensors and Bioelectronics</i> , 2019, 133, 55-63.	5.3	68
31	In situ fluorescent profiling of living cell membrane proteins at a single-molecule level. <i>Chemical Communications</i> , 2019, 55, 4043-4046.	2.2	24
32	A solvent based separation method for phenolic compounds from low-temperature coal tar. <i>Journal of Cleaner Production</i> , 2019, 223, 1-11.	4.6	59
33	Generalized Born Implicit Solvent Models for Biomolecules. <i>Annual Review of Biophysics</i> , 2019, 48, 275-296.	4.5	155
34	Simulation Studies of Amyloidogenic Polypeptides and Their Aggregates. <i>Chemical Reviews</i> , 2019, 119, 6956-6993.	23.0	138
35	Natural rubber@SiO ₂ nanohybrids: interface structures and dynamics. <i>Soft Matter</i> , 2019, 15, 2826-2837.	1.2	17
36	Tunable Coacervation of Well-Defined Homologous Polyanions and Polycations by Local Polarity. <i>ACS Central Science</i> , 2019, 5, 549-557.	5.3	76

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37	What Are We Missing by Not Measuring the Net Charge of Proteins?. Chemistry - A European Journal, 2019, 25, 7581-7590.	1.7	18
38	Effect of chloride salt type on the physicochemical, mechanical and morphological properties of fish gelatin film. Materials Research Express, 2019, 6, 126414.	0.8	4
39	On the Nonaggregation of Normal Adult Hemoglobin and the Aggregation of Sickle Cell Hemoglobin. Journal of Physical Chemistry B, 2019, 123, 10735-10745.	1.2	5
40	Synthesis and preclinical validation of novel P2Y1 receptor ligands as a potent anti-prostate cancer agent. Scientific Reports, 2019, 9, 18938.	1.6	18
41	Ultrafast Protonation of an Amide: Photoionization-Induced Proton Transfer in Phenol-Dimethylformamide Complex Cation. Journal of Physical Chemistry A, 2019, 123, 10700-10713.	1.1	3
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47	Diffusion dynamics of a single collapsed homopolymer globule at the solid-liquid interface. Soft Matter, 2020, 16, 2431-2436.	1.2	8
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49	Investigations of Albumin-Insulin Detemir Complexes Using Molecular Dynamics Simulations and Free Energy Calculations. Molecular Pharmaceutics, 2020, 17, 132-144.	2.3	8
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51	Nonclassical Nucleation. ACS Symposium Series, 2020, , 19-46.	0.5	24
52	Epigenetic Inactivation of Î±-Internexin Accelerates Microtubule Polymerization in Colorectal Cancer. Cancer Research, 2020, 80, 5203-5215.	0.4	14
53	Metal ions shape Î±-synuclein. Scientific Reports, 2020, 10, 16293.	1.6	55
54	Selectively Scissoring Hydrogen-Bonded Cytosine Dimer Structures Catalyzed by Water Molecules. ACS Nano, 2020, 14, 10680-10687.	7.3	10

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56	Complex Morphogenesis by a Model Intrinsically Disordered Protein. <i>Small</i> , 2020, 16, e2005191.	5.2	10
57	Extreme Temperature-Tolerant Conductive Gel with Antibacterial Activity for Flexible Dual-Response Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56470-56479.	4.0	37
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62	Amyloidogenic Propensities of Ribosomal S1 Proteins: Bioinformatics Screening and Experimental Checking. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5199.	1.8	18
63	Aggregate Science: From Structures to Properties. <i>Advanced Materials</i> , 2020, 32, e2001457.	11.1	254
64	NKNK: a New Essential Motif in the C-Terminal Domain of HIV-1 Group M Integrases. <i>Journal of Virology</i> , 2020, 94, .	1.5	7
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66	In Situ Cross-Linking of Artificial Basement Membranes in 3D Tissues and Their Size-Dependent Molecular Permeability. <i>Biomacromolecules</i> , 2020, 21, 4923-4932.	2.6	4
67	Rapid preparation of 1-vinylimidazole based non-affinity polymers for the highly-selective purification of antibodies from multiple biological sources. <i>Journal of Chromatography A</i> , 2020, 1632, 461607.	1.8	4
68	Bioadhesion in the oral cavity and approaches for biofilm management by surface modifications. <i>Clinical Oral Investigations</i> , 2020, 24, 4237-4260.	1.4	87
69	Mutations in SARS-CoV-2 Leading to Antigenic Variations in Spike Protein: A Challenge in Vaccine Development. <i>Journal of Laboratory Physicians</i> , 2020, 12, 154-160.	0.4	27
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72	Cholesterol sensing by CD81 is important for hepatitis C virus entry. <i>Journal of Biological Chemistry</i> , 2020, 295, 16931-16948.	1.6	17

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73	Efficient Encounter Complex Formation and Electron Transfer to Cytochrome <i>c</i> Peroxidase with an Additional, Distant Electrostatic Binding Site. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23239-23243.	7.2	13
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77	Harmonic surface mapping algorithm for molecular dynamics simulations of particle systems with planar dielectric interfaces. <i>Journal of Chemical Physics</i> , 2020, 152, 134109.	1.2	12
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82	Beyond β : Experiments and Simulations of Nitrile Vibrational Probes in Staphylococcal Nuclease Show the Importance of Local Interactions. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3387-3399.	1.2	7
83	High-performance double-network ionogels enabled by electrostatic interaction. <i>RSC Advances</i> , 2020, 10, 7424-7431.	1.7	9
84	Sequence-Dependent Correlated Segments in the Intrinsically Disordered Region of ChiZ. <i>Biomolecules</i> , 2020, 10, 946.	1.8	19
85	Effect of Like Charges on the Conformation and Internal Dynamics of Polypeptides Probed by Pyrene Excimer Fluorescence. <i>Macromolecules</i> , 2020, 53, 5147-5157.	2.2	11
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90	Innate Viral Sensor MDA5 and Coxsackievirus Interplay in Type 1 Diabetes Development. <i>Microorganisms</i> , 2020, 8, 993.	1.6	24

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92	“Apollo Program” in Nanoscale: Landing and Exploring Cell-Surface with DNA Nanotechnology. <i>ACS Applied Bio Materials</i> , 2020, 3, 2723-2742.	2.3	22
93	Protein Interaction Energy Landscapes are Shaped by Functional and also Non-functional Partners. <i>Journal of Molecular Biology</i> , 2020, 432, 1183-1198.	2.0	10
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95	A unified analytical theory of heteropolymers for sequence-specific phase behaviors of polyelectrolytes and polyampholytes. <i>Journal of Chemical Physics</i> , 2020, 152, 045102.	1.2	45
96	Bovine Serum Albumin Protein-Based Liquid Crystal Biosensors for Optical Detection of Toxic Heavy Metals in Water. <i>Sensors</i> , 2020, 20, 298.	2.1	31
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147	Engineering Hydrogel Adhesion for Biomedical Applications via Chemical Design of the Junction. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4048-4076.	2.6	89
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