

Asstâ€™Profâ€™Dr Felix Roosen-Runge

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,880
citations

201385

27
h-index

253896

43
g-index

45
all docs

45
docs citations

45
times ranked

1828
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature and salt controlled tuning of protein clusters. <i>Soft Matter</i> , 2021, 17, 8506-8516.	1.2	7
2	Self-diffusion of nonspherical particles fundamentally conflicts with effective sphere models. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 154002.	0.7	8
3	ApoE and ApoE Nascent-Like HDL Particles at Model Cellular Membranes: Effect of Protein Isoform and Membrane Composition. <i>Frontiers in Chemistry</i> , 2021, 9, 630152.	1.8	6
4	Molecular Flexibility of Antibodies Preserved Even in the Dense Phase after Macroscopic Phase Separation. <i>Molecular Pharmaceutics</i> , 2021, 18, 4162-4169.	2.3	10
5	Crowding in the Eye Lens: Modeling the Multisubunit Protein \hat{I}^2 -Crystallin with a Colloidal Approach. <i>Biophysical Journal</i> , 2020, 119, 2483-2496.	0.2	4
6	Evolution of the structure and dynamics of bovine serum albumin induced by thermal denaturation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18507-18517.	1.3	20
7	Multivalent ions and biomolecules: Attempting a comprehensive perspective. <i>ChemPhysChem</i> , 2020, 21, 1742-1767.	1.0	50
8	Following Protein Dynamics in Real Time during Crystallization. <i>Crystal Growth and Design</i> , 2019, 19, 7036-7045.	1.4	8
9	Dynamics of proteins in solution. <i>Quarterly Reviews of Biophysics</i> , 2019, 52, .	2.4	78
10	Protein Short-Time Diffusion in a Naturally Crowded Environment. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1709-1715.	2.1	30
11	Neutron spectroscopy on protein solutions employing backscattering with an increased energy range. <i>Physica B: Condensed Matter</i> , 2019, 562, 31-35.	1.3	1
12	Tuning phase transitions of aqueous protein solutions by multivalent cations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27214-27225.	1.3	36
13	Reentrant Phase Behavior in Protein Solutions Induced by Multivalent Salts: Strong Effect of Anions $Cl^{sup>\hat{a}€}$ Versus $NO_3^{sup>\hat{a}€}$. <i>Journal of Physical Chemistry B</i> , 2018, 122, 11978-11985.	1.2	33
14	Weak Shape Anisotropy Leads to a Nonmonotonic Contribution to Crowding, Impacting Protein Dynamics under Physiologically Relevant Conditions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 12396-12402.	1.2	15
15	Nanosecond Tracer Diffusion as a Probe of the Solution Structure and Molecular Mobility of Protein Assemblies: The Case of Ovalbumin. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8343-8350.	1.2	16
16	Two time scales for self and collective diffusion near the critical point in a simple patchy model for proteins with floating bonds. <i>Soft Matter</i> , 2018, 14, 8006-8016.	1.2	7
17	Effect of Phosphorylation on a Human-like Osteopontin Peptide. <i>Biophysical Journal</i> , 2017, 112, 1586-1596.	0.2	25
18	Effective Interactions and Colloidal Stability of Bovine \hat{I}^3 -Globulin in Solution. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5759-5769.	1.2	26

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19	Crowding-Controlled Cluster Size in Concentrated Aqueous Protein Solutions: Structure, Self- and Collective Diffusion. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2590-2596.	2.1	39
20	Strong Isotope Effects on Effective Interactions and Phase Behavior in Protein Solutions in the Presence of Multivalent Ions. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1731-1739.	1.2	38
21	Analytical correlation functions for motion through diffusivity landscapes. <i>Journal of Chemical Physics</i> , 2016, 144, 204109.	1.2	16
22	Cation-Induced Hydration Effects Cause Lower Critical Solution Temperature Behavior in Protein Solutions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7731-7736.	1.2	49
23	High-resolution neutron spectroscopy on protein solution samples. <i>EPJ Web of Conferences</i> , 2015, 83, 02005.	0.1	19
24	A generalized mean-squared displacement from inelastic fixed window scans of incoherent neutron scattering as a model-free indicator of anomalous diffusion confinement. <i>EPJ Web of Conferences</i> , 2015, 83, 02015.	0.1	4
25	Hierarchical molecular dynamics of bovine serum albumin in concentrated aqueous solution below and above thermal denaturation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4645-4655.	1.3	48
26	Real-Time Observation of Nonclassical Protein Crystallization Kinetics. <i>Journal of the American Chemical Society</i> , 2015, 137, 1485-1491.	6.6	112
27	On the question of two-step nucleation in protein crystallization. <i>Faraday Discussions</i> , 2015, 179, 41-58.	1.6	56
28	Salt-Induced Universal Slowing Down of the Short-Time Self-Diffusion of a Globular Protein in Aqueous Solution. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2577-2582.	2.1	30
29	Anomalous and anisotropic nanoscale diffusion of hydration water molecules in fluid lipid membranes. <i>Soft Matter</i> , 2015, 11, 8354-8371.	1.2	34
30	Reentrant condensation, liquid-liquid phase separation and crystallization in protein solutions induced by multivalent metal ions. <i>Pure and Applied Chemistry</i> , 2014, 86, 191-202.	0.9	55
31	Gold nanoparticles decorated with oligo(ethylene glycol) thiols: Surface charges and interactions with proteins in solution. <i>Journal of Colloid and Interface Science</i> , 2014, 426, 31-38.	5.0	24
32	Protein cluster formation in aqueous solution in the presence of multivalent metal ions - a light scattering study. <i>Soft Matter</i> , 2014, 10, 894-902.	1.2	55
33	Effective interactions in protein-salt solutions approaching liquid-liquid phase separation. <i>Journal of Molecular Liquids</i> , 2014, 200, 20-27.	2.3	50
34	Competing Salt Effects on Phase Behavior of Protein Solutions: Tailoring of Protein Interaction by the Binding of Multivalent Ions and Charge Screening. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11365-11374.	1.2	35
35	Diffusion and Dynamics of β -Globulin in Crowded Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7203-7209.	1.2	47
36	Ion-activated attractive patches as a mechanism for controlled protein interactions. <i>Scientific Reports</i> , 2014, 4, 7016.	1.6	94

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37	Interplay of pH and Binding of Multivalent Metal Ions: Charge Inversion and Reentrant Condensation in Protein Solutions. Journal of Physical Chemistry B, 2013, 117, 5777-5787.	1.2	97
38	Dynamics of highly concentrated protein solutions around the denaturing transition. Soft Matter, 2012, 8, 1628-1633.	1.2	32
39	The role of cluster formation and metastable liquid-liquid phase separation in protein crystallization. Faraday Discussions, 2012, 159, 313.	1.6	70
40	Charge-controlled metastable liquid-liquid phase separation in protein solutions as a universal pathway towards crystallization. Soft Matter, 2012, 8, 1313-1316.	1.2	83
41	Hydration and interactions in protein solutions containing concentrated electrolytes studied by small-angle scattering. Physical Chemistry Chemical Physics, 2012, 14, 2483.	1.3	82
42	Viscosity and diffusion: crowding and salt effects in protein solutions. Soft Matter, 2012, 8, 1404-1419.	1.2	86
43	Protein self-diffusion in crowded solutions. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11815-11820.	3.3	207
44	Protein diffusion in crowded electrolyte solutions. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 68-75.	1.1	37