

Fajun Zhang

List of Publications by Year in descending order

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docs citations

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times ranked

3131
citing authors

#	ARTICLE	IF	CITATIONS
1	Switchable $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si32.svg" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle^2 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -lactoglobulin (BLG) adsorption on protein resistant oligo (ethylene glycol) (OEG) self-assembled monolayers (SAMs). <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1673-1683.	9.4	5
2	Molecular Basis of Rhodomyrton Resistance in <i>Staphylococcus aureus</i> . <i>MBio</i> , 2022, 13, e0383321.	4.1	7
3	Reverse-engineering method for XPCS studies of non-equilibrium dynamics. <i>IUCr</i> , 2022, 9, 439-448.	2.2	4
4	Automated matching of two-time X-ray photon correlation maps from phase-separating proteins with Cahn-Hilliard-type simulations using auto-encoder networks. <i>Journal of Applied Crystallography</i> , 2022, 55, 751-757.	4.5	6
5	Bulk Phase Behavior vs Interface Adsorption: Specific Multivalent Cation and Anion Effects on BSA Interactions. <i>Langmuir</i> , 2021, 37, 139-150.	3.5	22
6	Temperature and salt controlled tuning of protein clusters. <i>Soft Matter</i> , 2021, 17, 8506-8516.	2.7	7
7	Nonclassical Nucleation—Role of Metastable Intermediate Phase in Crystal Nucleation: An Editorial Prefix. <i>Crystals</i> , 2021, 11, 174.	2.2	6
8	Nematic Phase of Plate-like Semicrystalline Block Copolymer Single Crystals in Solution Studied by Small-Angle X-Ray Scattering. <i>Langmuir</i> , 2021, 37, 2397-2405.	3.5	1
9	Kinetics of Network Formation and Heterogeneous Dynamics of an Egg White Gel Revealed by Coherent X-Ray Scattering. <i>Physical Review Letters</i> , 2021, 126, 098001.	7.8	28
10	Microscopic Dynamics of Liquid-Liquid Phase Separation and Domain Coarsening in a Protein Solution Revealed by X-Ray Photon Correlation Spectroscopy. <i>Physical Review Letters</i> , 2021, 126, 138004.	7.8	38
11	Interplay between Kinetics and Dynamics of Liquid-Liquid Phase Separation in a Protein Solution Revealed by Coherent X-ray Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7085-7090.	4.6	8
12	Human versus Bovine Serum Albumin: A Subtle Difference in Hydrophobicity Leads to Large Differences in Bulk and Interface Behavior. <i>Crystal Growth and Design</i> , 2021, 21, 5451-5459.	3.0	34
13	Bulk phase behaviour vs interface adsorption: Effects of anions and isotopes on β^2 -lactoglobulin (BLG) interactions. <i>Journal of Colloid and Interface Science</i> , 2021, 598, 430-443.	9.4	3
14	Molecular Flexibility of Antibodies Preserved Even in the Dense Phase after Macroscopic Phase Separation. <i>Molecular Pharmaceutics</i> , 2021, 18, 4162-4169.	4.6	10
15	Protein Crystallization from a Preordered Metastable Intermediate Phase Followed by Real-Time Small-Angle Neutron Scattering. <i>Crystal Growth and Design</i> , 2021, 21, 6971-6980.	3.0	5
16	Packing and dynamics of a protein solution approaching the jammed state. <i>Soft Matter</i> , 2020, 16, 7751-7759.	2.7	0
17	Evolution of the structure and dynamics of bovine serum albumin induced by thermal denaturation. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18507-18517.	2.8	20
18	Interplay between Glass Formation and Liquid-Liquid Phase Separation Revealed by the Scattering Invariant. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7273-7278.	4.6	17

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19	Protein Crystallization in the Presence of a Metastable Liquidâ€“Liquid Phase Separation. <i>Crystal Growth and Design</i> , 2020, 20, 7951-7962.	3.0	17
20	Enhanced protein adsorption upon bulk phase separation. <i>Scientific Reports</i> , 2020, 10, 10349.	3.3	11
21	Unification of lower and upper critical solution temperature phase behavior of globular protein solutions in the presence of multivalent cations. <i>Soft Matter</i> , 2020, 16, 2128-2134.	2.7	9
22	Following Protein Dynamics in Real Time during Crystallization. <i>Crystal Growth and Design</i> , 2019, 19, 7036-7045.	3.0	8
23	Interplay between Stereocomplexation and Microphase Separation in PS- <i>b</i> -PLLA- <i>b</i> -PDLA Triblock Copolymers. <i>Macromolecules</i> , 2019, 52, 1004-1012.	4.8	13
24	Phase-Separation Kinetics in Proteinâ€“Salt Mixtures with Compositionally Tuned Interactions. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1913-1919.	2.6	12
25	Dynamics of proteins in solution. <i>Quarterly Reviews of Biophysics</i> , 2019, 52, .	5.7	78
26	Protein Short-Time Diffusion in a Naturally Crowded Environment. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1709-1715.	4.6	30
27	Neutron spectroscopy on protein solutions employing backscattering with an increased energy range. <i>Physica B: Condensed Matter</i> , 2019, 562, 31-35.	2.7	1
28	Tuning phase transitions of aqueous protein solutions by multivalent cations. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27214-27225.	2.8	36
29	Reentrant Phase Behavior in Protein Solutions Induced by Multivalent Salts: Strong Effect of Anions Cl ⁻ Versus NO ₃ ⁻ . <i>Journal of Physical Chemistry B</i> , 2018, 122, 11978-11985.	2.6	33
30	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.	2.6	16
31	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.	2.7	7
32	Effective Interactions and Colloidal Stability of Bovine β -Globulin in Solution. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5759-5769.	2.6	26
33	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.	4.6	39
34	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.	2.6	38
35	Multivalent-Ion-Activated Protein Adsorption Reflecting Bulk Reentrant Behavior. <i>Physical Review Letters</i> , 2017, 119, 228001.	7.8	33
36	Arrested and temporarily arrested states in a proteinâ€“polymer mixture studied by USAXS and VSANS. <i>Soft Matter</i> , 2017, 13, 8756-8765.	2.7	14

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37	Nonclassical nucleation pathways in protein crystallization. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 443002.	1.8	37
38	Cation-Induced Hydration Effects Cause Lower Critical Solution Temperature Behavior in Protein Solutions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7731-7736.	2.6	49
39	Kinetics of liquid-liquid phase separation in protein solutions exhibiting LCST phase behavior studied by time-resolved USAXS and VSANS. <i>Soft Matter</i> , 2016, 12, 9334-9341.	2.7	53
40	Structural Evolution of Metastable Protein Aggregates in the Presence of Trivalent Salt Studied by (V)SANS and SAXS. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5564-5571.	2.6	27
41	High-resolution neutron spectroscopy on protein solution samples. <i>EPJ Web of Conferences</i> , 2015, 83, 02005.	0.3	19
42	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.	2.8	48
43	Real-Time Observation of Nonclassical Protein Crystallization Kinetics. <i>Journal of the American Chemical Society</i> , 2015, 137, 1485-1491.	13.7	112
44	On the question of two-step nucleation in protein crystallization. <i>Faraday Discussions</i> , 2015, 179, 41-58.	3.2	56
45	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.	4.6	30
46	Molecular self-assembly and clustering in nucleation processes: general discussion. <i>Faraday Discussions</i> , 2015, 179, 155-197.	3.2	10
47	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.	1.9	55
48	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.	9.4	24
49	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.	2.7	55
50	Nonclassical Pathways of Protein Crystallization in the Presence of Multivalent Metal Ions. <i>Crystal Growth and Design</i> , 2014, 14, 6357-6366.	3.0	25
51	Effective interactions in protein-salt solutions approaching liquid-liquid phase separation. <i>Journal of Molecular Liquids</i> , 2014, 200, 20-27.	4.9	50
52	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.	2.6	35
53	Diffusion and Dynamics of Γ^3 -Globulin in Crowded Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7203-7209.	2.6	47
54	The role of serum proteins in <i>Staphylococcus aureus</i> adhesion to ethylene glycol coated surfaces. <i>International Journal of Medical Microbiology</i> , 2014, 304, 949-957.	3.6	13

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55	Ion-activated attractive patches as a mechanism for controlled protein interactions. <i>Scientific Reports</i> , 2014, 4, 7016.	3.3	94
56	Influence of particle size and tunable interactions on isotropic-nematic transition of block copolymer single crystal platelet suspensions. <i>Journal of Colloid and Interface Science</i> , 2013, 411, 53-60.	9.4	5
57	Interplay of pH and Binding of Multivalent Metal Ions: Charge Inversion and Reentrant Condensation in Protein Solutions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5777-5787.	2.6	97
58	Dynamics of highly concentrated protein solutions around the denaturing transition. <i>Soft Matter</i> , 2012, 8, 1628-1633.	2.7	32
59	The role of cluster formation and metastable liquid-liquid phase separation in protein crystallization. <i>Faraday Discussions</i> , 2012, 159, 313.	3.2	70
60	Charge-controlled metastable liquid-liquid phase separation in protein solutions as a universal pathway towards crystallization. <i>Soft Matter</i> , 2012, 8, 1313-1316.	2.7	83
61	Hydration and interactions in protein solutions containing concentrated electrolytes studied by small-angle scattering. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2483.	2.8	82
62	Viscosity and diffusion: crowding and salt effects in protein solutions. <i>Soft Matter</i> , 2012, 8, 1404-1419.	2.7	86
63	Melting and van der Waals Stabilization of PE Single Crystals Grown from Ultrathin Films. <i>Macromolecules</i> , 2011, 44, 7752-7757.	4.8	11
64	Novel approach to controlled protein crystallization through ligandation of yttrium cations. <i>Journal of Applied Crystallography</i> , 2011, 44, 755-762.	4.5	57
65	Protein self-diffusion in crowded solutions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11815-11820.	7.1	207
66	Protein diffusion in crowded electrolyte solutions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 68-75.	2.3	37
67	Universality of protein reentrant condensation in solution induced by multivalent metal ions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 3450-3457.	2.6	106
68	Protein-Protein Interactions in Ovalbumin Solutions Studied by Small-Angle Scattering: Effect of Ionic Strength and the Chemical Nature of Cations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3776-3783.	2.6	95
69	Gold Nanoparticles Decorated with Oligo(ethylene glycol) Thiols: Enhanced Hofmeister Effects in Colloid-Protein Mixtures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4839-4847.	3.1	25
70	Gold nanoparticles decorated with oligo(ethylene glycol) thiols: kinetics of colloid aggregation driven by depletion forces. <i>European Biophysics Journal</i> , 2008, 37, 551-561.	2.2	22
71	Reentrant Condensation of Proteins in Solution Induced by Multivalent Counterions. <i>Physical Review Letters</i> , 2008, 101, 148101.	7.8	184
72	Competition of Lamellar Orientation in Thin Films of a Symmetric Poly(styrene)- <i>b</i> -poly(lactide) Diblock Copolymer in Melt State. <i>Macromolecules</i> , 2007, 40, 6631-6637.	4.8	22

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73	Gold Nanoparticles Decorated with Oligo(ethylene glycol) Thiols: Protein Resistance and Colloidal Stability. <i>Journal of Physical Chemistry A</i> , 2007, 111, 12229-12237.	2.5	50
74	Protein Interactions Studied by SAXS: Effect of Ionic Strength and Protein Concentration for BSA in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2007, 111, 251-259.	2.6	252
75	Effect of Crystallization on the Lamellar Orientation in Thin Films of Symmetric Poly(styrene)- <i>b</i> -poly(l-lactide) Diblock Copolymer. <i>Macromolecules</i> , 2006, 39, 4101-4107.	4.8	25
76	Composition fluctuation and domain spacing of low molar weight PEO- <i>b</i> -PPO- <i>b</i> -PEO triblock copolymers in the melt, during crystallization and in the solid state. <i>Colloid and Polymer Science</i> , 2006, 284, 823-833.	2.1	17
77	Partial Dewetting of Polyethylene Thin Films on Rough Silicon Dioxide Surfaces. <i>Langmuir</i> , 2005, 21, 7427-7432.	3.5	26
78	Morphology and Structure of Poly(di-n-butylsilane) Single Crystals Prepared by Controlling Kinetic Process of Solvent Evaporation. <i>Macromolecules</i> , 2004, 37, 3310-3318.	4.8	12
79	Effects of Casting Solvents on the Formation of Inverted Phase in Block Copolymer Thin Films. <i>Macromolecules</i> , 2004, 37, 6523-6530.	4.8	68
80	Thickness-dependent molecular chain and lamellar crystal orientation in ultrathin poly(di-n-hexylsilane) films. <i>Langmuir</i> , 2004, 20, 3271-7.	3.5	4
81	Morphology and Structures of Self-Assembled Symmetric Poly(di-n-alkylsilanes). <i>Langmuir</i> , 2003, 19, 9013-9017.	3.5	15
82	Multiple melting behavior of isotactic polypropylene and poly(propylene-co-ethylene) after stepwise isothermal crystallization. <i>European Polymer Journal</i> , 2003, 39, 2315-2322.	5.4	19
83	Study on the Origin of Inverted Phase in Drying Solution-Cast Block Copolymer Films. <i>Macromolecules</i> , 2003, 36, 4084-4092.	4.8	53
84	Crystallization of Weakly Segregated Poly(styrene- <i>b</i> - μ -caprolactone) Diblock Copolymer in Thin Films. <i>Langmuir</i> , 2003, 19, 10100-10108.	3.5	21
85	Boundary Effect of Relief Structure on Crystallization of Diblock Copolymer in Thin Films. <i>Langmuir</i> , 2003, 19, 5563-5566.	3.5	23
86	Polydispersity of ethylene sequence length in metallocene ethylene/olefin copolymers. I. Characterized by thermal-fractionation technique. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 813-821.	2.1	24
87	Polydispersity of ethylene sequence length in metallocene ethylene/olefin copolymers. II. Influence on crystallization and melting behavior. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 822-830.	2.1	17
88	The polydispersity of ethylene sequence in metallocene ethylene/olefin copolymers III: crystallization and melting behavior of short ethylene sequence. <i>Polymer</i> , 2002, 43, 1453-1460.	3.8	17
89	In situ study of nanostructure and morphological development during the crystal-mesophase transition of poly(di-n-hexylsilane) and poly(di-n-butylsilane) by X-ray and hot-stage AFM. <i>Polymer</i> , 2002, 43, 6005-6012.	3.8	2
90	Improved thermal fractionation technique for chain structure analysis of ethylene/olefin copolymers. <i>Polymer</i> , 2002, 43, 1031-1034.	3.8	35

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91	Study on single crystals of butyl branched polyethylene in the presence of electric field. <i>Polymer</i> , 2002, 43, 1903-1906.	3.8	2
92	Morphologies of metallocene-catalyzed short chain branched polyethylene single crystals formed from the melt at higher temperature. <i>Polymer</i> , 2001, 42, 5449-5452.	3.8	3
93	Observation of Twisting Growth of Branched Polyethylene Single Crystals Formed from the Melt. <i>Macromolecular Rapid Communications</i> , 2001, 22, 1340-1343.	3.9	14
94	Lateral habits of single crystals of metallocene-catalyzed low molecular weight short chain branched polyethylene from the melt. <i>Polymer</i> , 2000, 41, 8573-8577.	3.8	4
95	Observation of Inverted Phases in Poly(styrene-b-butadiene-b-styrene) Triblock Copolymer by Solvent-Induced Order~Disorder Phase Transition. <i>Macromolecules</i> , 2000, 33, 9561-9567.	4.8	101