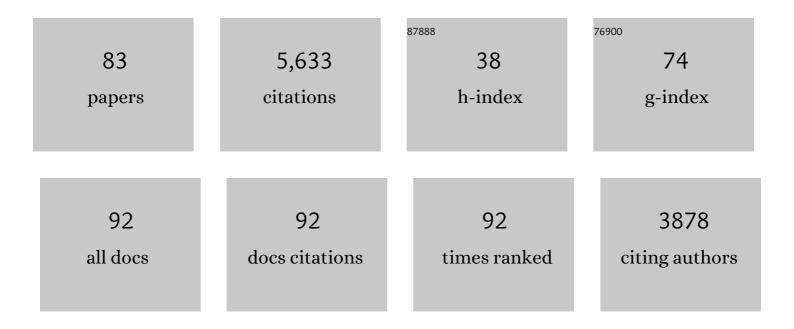
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fast Kinetics and Mechanisms in Protein Folding. Annual Review of Biophysics and Biomolecular Structure, 2000, 29, 327-359.	18.3	459
2	Diffusion-limited contact formation in unfolded cytochrome c: estimating the maximum rate of protein folding Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 11615-11617.	7.1	402
3	Smaller and Faster: The 20-Residue Trp-Cage Protein Folds in 4 μs. Journal of the American Chemical Society, 2002, 124, 12952-12953.	13.7	323
4	Protein reaction kinetics in a room-temperature glass. Science, 1995, 269, 959-962.	12.6	231
5	Out-of-plane conductivity in single-crystalYBa2Cu3O7. Physical Review B, 1988, 37, 7928-7931.	3.2	208
6	Protein folding: Defining a "standard―set of experimental conditions and a preliminary kinetic data set of two-state proteins. Protein Science, 2005, 14, 602-616.	7.6	207
7	Anomalous Hall effect in superconductors near their critical temperatures. Physical Review B, 1990, 41, 11630-11633.	3.2	198
8	Anomalous flux-flow Hall effect:Nd1.85Ce0.15CuO4â^'yand evidence for vortex dynamics. Physical Review B, 1993, 47, 1064-1068.	3.2	195
9	Anisotropy of the thermal conductivity ofYBa2Cu3O7â^'y. Physical Review B, 1989, 40, 9389-9392.	3.2	192
10	Trp zipper folding kinetics by molecular dynamics and temperature-jump spectroscopy. Proceedings of the United States of America, 2004, 101, 4077-4082.	7.1	185
11	Do Protein Molecules Unfold in a Simple Shear Flow?. Biophysical Journal, 2006, 91, 3415-3424.	0.5	169
12	Flux-flow Hall effect in superconductingTl2Ba2CaCu2O8films. Physical Review B, 1991, 43, 6246-6248.	3.2	131
13	Solvent Viscosity and Friction in Protein Folding Dynamics. Current Protein and Peptide Science, 2010, 11, 385-395.	1.4	125
14	Rate of Intrachain Diffusion of Unfolded Cytochromec. Journal of Physical Chemistry B, 1997, 101, 2352-2365.	2.6	119
15	Microfluidic study of competence regulation in <i>Streptococcus mutans</i> : environmental inputs modulate bimodal and unimodal expression of <i>comX</i> . Molecular Microbiology, 2012, 86, 258-272.	2.5	113
16	Geminate Rebinding and Conformational Dynamics of Myoglobin Embedded in a Glass at Room Temperature. The Journal of Physical Chemistry, 1996, 100, 12008-12021.	2.9	93
17	Anomalous in-plane paraconductivity in single-crystal YBa2Cu3O7. Physical Review B, 1988, 38, 7137-7140.	3.2	89
18	Internal Friction Controls the Speed of Protein Folding from a Compact Configurationâ€. Biochemistry, 2004, 43, 12532-12538.	2.5	89

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19	Flux-flow Nernst effect in epitaxialYBa2Cu3O7. Physical Review B, 1990, 42, 6777-6780.	3.2	87
20	Two-state expansion and collapse of a polypeptide 1 1Edited by A. R. Fersht. Journal of Molecular Biology, 2000, 301, 1019-1027.	4.2	87
21	Nonexponential structural relaxations in proteins. Journal of Chemical Physics, 1996, 104, 3395-3398.	3.0	76
22	A Limiting Speed for Protein Folding at Low Solvent Viscosity. Journal of the American Chemical Society, 2004, 126, 3398-3399.	13.7	76
23	Heterogeneous Response to a Quorum-Sensing Signal in the Luminescence of Individual Vibrio fischeri. PLoS ONE, 2010, 5, e15473.	2.5	76
24	Laminar-Flow Fluid Mixer for Fast Fluorescence Kinetics Studies. Biophysical Journal, 2002, 83, 2872-2878.	0.5	70
25	Two-state expansion and collapse of a polypeptide. Journal of Molecular Biology, 2000, 297, 781-789.	4.2	69
26	Multi-Scaled Explorations of Binding-Induced Folding of Intrinsically Disordered Protein Inhibitor IA3 to its Target Enzyme. PLoS Computational Biology, 2011, 7, e1001118.	3.2	68
27	Quorum Activation at a Distance: Spatiotemporal Patterns of Gene Regulation from Diffusion of an Autoinducer Signal. Journal of the American Chemical Society, 2012, 134, 5618-5626.	13.7	68
28	Transport and localization inNd2â^'xCexCuO4â^'ycrystals at low doping. Physical Review B, 1992, 45, 515-518.	3.2	64
29	Thermoelectric power ofNd2â 'xCexCuO4crystals. Physical Review B, 1992, 45, 7356-7359.	3.2	60
30	Kinetics of Folding and Binding of an Intrinsically Disordered Protein: The Inhibitor of Yeast Aspartic Proteinase YPrA. Journal of the American Chemical Society, 2008, 130, 11477-11485.	13.7	55
31	In-plane transport properties of single-crystalR2â^xCexCuO4â^y(R=Nd,Sm). Physical Review B, 1991, 43, 13606-13609.	3.2	54
32	Approaching the Mott-Hubbard insulator in the 85-K superconductorBi2(Sr,Ca)3Cu2O8+dby doping with Tm. Physical Review B, 1989, 39, 7320-7323.	3.2	51
33	Effects of dimensional crossover on flux pinning in a model high-Tcsuperconductor:YBa2Cu3O7â^îÎ/(PrxY1â^'x)Ba2Cu3O7â^îÎsuperlattices. Physical Review Letters, 1992, 69, 2713-2716.	7.8	51
34	Hall-effect studies ofY1â^'xPrxBa2Cu3O7crystals. Physical Review B, 1992, 46, 8694-8697.	3.2	51
35	Exponential decay kinetics in "downhill―protein folding. Proteins: Structure, Function and Bioinformatics, 2002, 50, 1-4.	2.6	46
36	Sharply Tuned pH Response of Genetic Competence Regulation in Streptococcus mutans: a Microfluidic Study of the Environmental Sensitivity of <i>comX</i> . Applied and Environmental Microbiology, 2015, 81, 5622-5631.	3.1	46

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37	Rate of intrachain contact formation in an unfolded protein: temperature and denaturant effects. Journal of Molecular Biology, 2001, 305, 1161-1171.	4.2	40
38	Folding Dynamics and Pathways of the Trp-Cage Miniproteins. Biochemistry, 2014, 53, 6011-6021.	2.5	40
39	Effect of stress along theabplane on theJcandTcofYBa2Cu3O7thin films. Physical Review B, 1991, 44, 10117-10120.	3.2	39
40	Fast Chain Contraction during Protein Folding: "Foldability―and Collapse Dynamics. Physical Review Letters, 2003, 90, 168103.	7.8	39
41	IA3, an Aspartic Proteinase Inhibitor from Saccharomyces cerevisiae, Is Intrinsically Unstructured in Solution. Biochemistry, 2004, 43, 4071-4081.	2.5	38
42	Diffusional limits to the speed of protein folding: fact or friction?. Journal of Physics Condensed Matter, 2005, 17, S1503-S1514.	1.8	38
43	Noise and crosstalk in two quorum-sensing inputs of Vibrio fischeri. BMC Systems Biology, 2011, 5, 153.	3.0	38
44	Effects of Carbohydrate Source on Genetic Competence in Streptococcus mutans. Applied and Environmental Microbiology, 2016, 82, 4821-4834.	3.1	38
45	Rapid Intrachain Binding of Histidine-26 and Histidine-33 to Heme in Unfolded Ferrocytochrome c. Biochemistry, 2002, 41, 1372-1380.	2.5	36
46	Bidirectional signaling in the competence regulatory pathway ofStreptococcus mutans. FEMS Microbiology Letters, 2015, 362, fnv159.	1.8	35
47	Intracellular Signaling by the <i>comRS</i> System in <i>Streptococcus mutans</i> Genetic Competence. MSphere, 2018, 3, .	2.9	32
48	Traveling waves in response to a diffusing quorum sensing signal in spatially-extended bacterial colonies. Journal of Theoretical Biology, 2014, 363, 53-61.	1.7	31
49	Characterization of LrgAB as a stationary phase-specific pyruvate uptake system in Streptococcus mutans. BMC Microbiology, 2019, 19, 223.	3.3	30
50	Probe-dependent and nonexponential relaxation kinetics: Unreliable signatures of downhill protein folding. Proteins: Structure, Function and Bioinformatics, 2007, 68, 205-217.	2.6	29
51	Co-Assembly Tags Based on Charge Complementarity (CATCH) for Installing Functional Protein Ligands into Supramolecular Biomaterials. Cellular and Molecular Bioengineering, 2016, 9, 335-350.	2.1	26
52	Origins of heterogeneity in <i>Streptococcus mutans</i> competence: interpreting an environment-sensitive signaling pathway. Physical Biology, 2017, 14, 015001.	1.8	25
53	Exponential growth of bacteria: Constant multiplication through division. American Journal of Physics, 2010, 78, 1290-1296.	0.7	24
54	Modeling Analysis of Signal Sensitivity and Specificity by Vibrio fischeri LuxR Variants. PLoS ONE, 2015, 10, e0126474.	2.5	24

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55	Oxidative Stressors Modify the Response of Streptococcus mutans to Its Competence Signal Peptides. Applied and Environmental Microbiology, 2017, 83, .	3.1	23
56	Kinetics of Internal-Loop Formation in Polypeptide Chains: A Simulation Study. Biophysical Journal, 2007, 92, 2281-2289.	0.5	22
57	Intercellular Communication via the <i>comX</i> -Inducing Peptide (XIP) of Streptococcus mutans. Journal of Bacteriology, 2017, 199, .	2.2	22
58	Entropy-driven motility of <i>Sinorhizobium meliloti</i> on a semi-solid surface. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132575.	2.6	21
59	Bacterium in a box: sensing of quorum and environment by the LuxI/LuxR gene regulatory circuit. Journal of Biological Physics, 2010, 36, 317-327.	1.5	20
60	Enhanced purification coupled with biophysical analyses shows cross-Î <sup>2</sup> structure as a core building block for Streptococcus mutans functional amyloids. Scientific Reports, 2020, 10, 5138.	3.3	20
61	Solvent Friction Changes the Folding Pathway of the Tryptophan Zipper TZ2. Journal of Molecular Biology, 2009, 390, 538-546.	4.2	19
62	Analysis of gene expression levels in individual bacterial cells without image segmentation. Biochemical and Biophysical Research Communications, 2012, 421, 425-430.	2.1	19
63	Internal friction in the ultrafast folding of the tryptophan cage. Chemical Physics, 2004, 307, 243-249.	1.9	18
64	Genome-Wide Screens Reveal New Gene Products That Influence Genetic Competence in Streptococcus mutans. Journal of Bacteriology, 2018, 200, .	2.2	18
65	Carbohydrate and PepO control bimodality in competence development by <i>Streptococcus mutans</i> . Molecular Microbiology, 2019, 112, 1388-1402.	2.5	17
66	Characterizing the Residue Level Folding of the Intrinsically Unstructured IA3. Biochemistry, 2006, 45, 13585-13596.	2.5	14
67	Anisotropic normal-state magnetothermopower of superconductingNd1.85Ce0.15CuO4crystals. Physical Review B, 1993, 48, 657-660.	3.2	11
68	Environmental Triggers of IrgA Expression in Streptococcus mutans. Frontiers in Microbiology, 2020, 11, 18.	3.5	11
69	Asymmetric current-voltage characteristics in type-II superconductors. Physical Review B, 1994, 49, 9244-9247.	3.2	10
70	Comments on the physics and chemistry of trehalose as a storage medium for hemoglobin-based blood substitutes: "From kramers theory to the battlefield― Transfusion Clinique Et Biologique, 1995, 2, 423-426.	0.4	10
71	Threshold regulation and stochasticity from the MecA/ClpCP proteolytic system in <i>Streptococcus mutans</i> competence. Molecular Microbiology, 2018, 110, 914-930.	2.5	7
72	The quantitative measure and statistical distribution of fame. PLoS ONE, 2018, 13, e0200196.	2.5	5

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73	Spatially propagating activation of quorum sensing in Vibrio fischeri and the transition to low population density. Physical Review E, 2020, 101, 062421.	2.1	5
74	Solvent Viscosity and Friction in Protein Folding Dynamics. Current Protein and Peptide Science, 2010, 999, 1-11.	1.4	4
75	Anomalous normal state magnetothermopower of electron-doped Nd1.85Ce0.15CuO4+? crystals. Journal of Superconductivity and Novel Magnetism, 1994, 7, 773-775.	0.5	2
76	IA3, A Yeast Proteinase A Inhibitor, Is Intrinsically Unstructured in Solution. Scientific World Journal, The, 2002, 2, 99-101.	2.1	2
77	Laser Temperature-Jump Spectroscopy of Intrinsically Disordered Proteins. Methods in Molecular Biology, 2012, 896, 267-281.	0.9	2
78	Spatial Correlations and Distribution of Competence Gene Expression in Biofilms of Streptococcus mutans. Frontiers in Microbiology, 2020, 11, 627992.	3.5	2
79	Swimming in Information? Physical Limits to Learning by Quorum Sensing. Biological and Medical Physics Series, 2015, , 123-144.	0.4	1
80	Dimension-reduction simplifies the analysis of signal crosstalk in a bacterial quorum sensing pathway. Scientific Reports, 2021, 11, 19719.	3.3	1
81	Symposia lectures. Journal of Biosciences, 1999, 24, 5-31.	1.1	0
82	Wavelike propagation of quorum activation through a spatially distributed bacterial population under natural regulation. Physical Biology, 2021, 18, 046008.	1.8	0
83	Andreev Reflection, Thermal Conductivity, Torque Magnetometry, and Hall Effect Studies on High-Tc Systems, Springer Series in Solid-state Sciences, 1989, , 204-212.	0.3	0