

Hoi Sung Chung

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,746
citations

159585

30
h-index

254184

43
g-index

52
all docs

52
docs citations

52
times ranked

3216
citing authors

#	ARTICLE	IF	CITATIONS
1	Amide I Two-Dimensional Infrared Spectroscopy of Proteins. <i>Accounts of Chemical Research</i> , 2008, 41, 432-441.	15.6	427
2	Single-Molecule Fluorescence Experiments Determine Protein Folding Transition Path Times. <i>Science</i> , 2012, 335, 981-984.	12.6	360
3	Two-Dimensional Infrared Spectroscopy of Antiparallel β^2 -Sheet Secondary Structure. <i>Journal of the American Chemical Society</i> , 2004, 126, 7981-7990.	13.7	267
4	Experimental determination of upper bound for transition path times in protein folding from single-molecule photon-by-photon trajectories. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11837-11844.	7.1	262
5	Single-molecule fluorescence probes dynamics of barrier crossing. <i>Nature</i> , 2013, 502, 685-688.	27.8	193
6	Structural origin of slow diffusion in protein folding. <i>Science</i> , 2015, 349, 1504-1510.	12.6	175
7	Transient 2D IR spectroscopy of ubiquitin unfolding dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14237-14242.	7.1	164
8	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , 2021, 10, .	6.0	152
9	From The Cover: Conformational changes during the nanosecond-to-millisecond unfolding of ubiquitin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 612-617.	7.1	150
10	The Anharmonic Vibrational Potential and Relaxation Pathways of the Amide I and II Modes of N-Methylacetamide. <i>Journal of Physical Chemistry B</i> , 2006, 110, 18973-18980.	2.6	123
11	Solution structure of the ESCRT-I complex by small-angle X-ray scattering, EPR, and FRET spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9437-9442.	7.1	102
12	Protein folding transition path times from single molecule FRET. <i>Current Opinion in Structural Biology</i> , 2018, 48, 30-39.	5.7	97
13	Extracting Rate Coefficients from Single-Molecule Photon Trajectories and FRET Efficiency Histograms for a Fast-Folding Protein. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3642-3656.	2.5	95
14	Highly Disordered Amyloid- β^2 Monomer Probed by Single-Molecule FRET and MD Simulation. <i>Biophysical Journal</i> , 2018, 114, 870-884.	0.5	88
15	Solution Structure of the ESCRT-I and -II Supercomplex: Implications for Membrane Budding and Scission. <i>Structure</i> , 2012, 20, 874-886.	3.3	85
16	Nonlinear Infrared Spectroscopy of Protein Conformational Change during Thermal Unfolding. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15332-15342.	2.6	83
17	Fast single-molecule FRET spectroscopy: theory and experiment. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18644.	2.8	83
18	Transient two-dimensional IR spectrometer for probing nanosecond temperature-jump kinetics. <i>Review of Scientific Instruments</i> , 2007, 78, 063101.	1.3	66

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19	Residual Native Structure in a Thermally Denatured \hat{I}^2 -Hairpin. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17025-17027.	2.6	60
20	Testing Landscape Theory for Biomolecular Processes with Single Molecule Fluorescence Spectroscopy. <i>Physical Review Letters</i> , 2015, 115, 018101.	7.8	57
21	Molecular Lens of the Nonresonant Dipole Force. <i>Physical Review Letters</i> , 2000, 85, 2705-2708.	7.8	55
22	Distinguishing between Protein Dynamics and Dye Photophysics in Single-Molecule FRET Experiments. <i>Biophysical Journal</i> , 2010, 98, 696-706.	0.5	55
23	Visualization and Characterization of the Infrared Active Amide I Vibrations of Proteins. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2888-2898.	2.6	49
24	Oligomerization of the tetramerization domain of p53 probed by two- and three-color single-molecule FRET. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6812-E6821.	7.1	45
25	Diffusion-limited association of disordered protein by non-native electrostatic interactions. <i>Nature Communications</i> , 2018, 9, 4707.	12.8	45
26	Measuring ultrafast protein folding rates from photon-by-photon analysis of single molecule fluorescence trajectories. <i>Chemical Physics</i> , 2013, 422, 229-237.	1.9	43
27	Disordered proteins follow diverse transition paths as they fold and bind to a partner. <i>Science</i> , 2020, 368, 1253-1257.	12.6	40
28	Molecular lens applied to benzene and carbon disulfide molecular beams. <i>Journal of Chemical Physics</i> , 2001, 114, 8293-8302.	3.0	39
29	Separation of a benzene and nitric oxide mixture by a molecule prism. <i>Journal of Chemical Physics</i> , 2003, 119, 8905-8909.	3.0	37
30	Analysis of Fluorescence Lifetime and Energy Transfer Efficiency in Single-Molecule Photon Trajectories of Fast-Folding Proteins. <i>Journal of Physical Chemistry B</i> , 2016, 120, 680-699.	2.6	34
31	Three-Color Single-Molecule FRET and Fluorescence Lifetime Analysis of Fast Protein Folding. <i>Journal of Physical Chemistry B</i> , 2018, 122, 11702-11720.	2.6	33
32	Temperature-dependent downhill unfolding of ubiquitin. I. Nanosecond-to-millisecond resolved nonlinear infrared spectroscopy. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 474-487.	2.6	32
33	Probing the mechanism of inhibition of amyloid- \hat{I}^2 (1-42)-induced neurotoxicity by the chaperonin GroEL. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11924-E11932.	7.1	29
34	Fast three-color single-molecule FRET using statistical inference. <i>Nature Communications</i> , 2020, 11, 3336.	12.8	27
35	Probing the Folding Transition State of Ubiquitin Mutants by Temperature-Jump-Induced Downhill Unfolding. <i>Biochemistry</i> , 2008, 47, 13870-13877.	2.5	22
36	Temperature-dependent downhill unfolding of ubiquitin. II. Modeling the free energy surface. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 488-497.	2.6	18

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37	Transition Path Times Measured by Single-Molecule Spectroscopy. <i>Journal of Molecular Biology</i> , 2018, 430, 409-423.	4.2	16
38	Atomic view of cosolute-induced protein denaturation probed by NMR solvent paramagnetic relaxation enhancement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13
39	Single-molecule fluorescence imaging and deep learning reveal highly heterogeneous aggregation of amyloid- β 42. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2116736119.	7.1	12
40	Diverse Folding Pathways of HIV-1 Protease Monomer on a Rugged Energy Landscape. <i>Biophysical Journal</i> , 2019, 117, 1456-1466.	0.5	5
41	Kinetics of amyloid β from deep learning. <i>Nature Computational Science</i> , 2021, 1, 20-21.	8.0	2
42	Single-Molecule FRET Shows Folding Transition Path Time for All-Alpha Protein Slowed by Internal Friction. <i>Biophysical Journal</i> , 2013, 104, 188a.	0.5	1
43	Multi-Color Single Molecule FRET Study of Intrinsically Disordered Protein Binding. <i>Biophysical Journal</i> , 2016, 110, 555a-556a.	0.5	1
44	Photon-By-Photon Analysis of Single Molecule Fluorescence Trajectories of a Fast Folding Protein. <i>Biophysical Journal</i> , 2010, 98, 29a-30a.	0.5	0
45	Photon-By-Photon Analysis of Single Molecule Fluorescence Trajectories Determines an Upper Bound for the Transition Path Time in Protein Folding. <i>Biophysical Journal</i> , 2011, 100, 349a.	0.5	0
46	Single-molecule fluorescence studies of IDPs and IDRs. , 2019, , 93-136.		0
47	Amyloid Beta Oligomerization Probed by Single-Molecule FRET. <i>Biophysical Journal</i> , 2020, 118, 38a.	0.5	0
48	Multidimensional IR Spectroscopy of Site-Specific Hairpin Folding. <i>Springer Series in Chemical Physics</i> , 2007, , 350-352.	0.2	0
49	Single Molecule Photon Trajectories and Transition Paths in Protein Folding. , 2010, , .		0
50	Theory and Analysis of Single-Molecule FRET Experiments. <i>Methods in Molecular Biology</i> , 2022, 2376, 247-282.	0.9	0