

Jörg Fitter

List of Publications by Year in descending order

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66
papers

2,646
citations

185998

28
h-index

189595

50
g-index

69
all docs

69
docs citations

69
times ranked

2780
citing authors

#	ARTICLE	IF	CITATIONS
1	Art and Artefacts of Fluorescence Correlation Spectroscopy. Current Pharmaceutical Biotechnology, 2004, 5, 155-161.	0.9	177
2	Interactions of Hydration Water and Biological Membranes Studied by Neutron Scattering. Journal of Physical Chemistry B, 1999, 103, 8036-8050.	1.2	158
3	The Temperature Dependence of Internal Molecular Motions in Hydrated and Dry Î±-Amylase: The Role of Hydration Water in the Dynamical Transition of Proteins. Biophysical Journal, 1999, 76, 1034-1042.	0.2	135
4	How Aggregation and Conformational Scrambling of Unfolded States Govern Fluorescence Emission Spectra. Biophysical Journal, 2006, 90, 3704-3711.	0.2	134
5	Internal molecular motions of bacteriorhodopsin: hydration-induced flexibility studied by quasielastic incoherent neutron scattering using oriented purple membranes.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 7600-7605.	3.3	120
6	Picosecond molecular motions in bacteriorhodopsin from neutron scattering. Biophysical Journal, 1997, 73, 2126-2137.	0.2	111
7	A Measure of Conformational Entropy Change during Thermal Protein Unfolding Using Neutron Spectroscopy. Biophysical Journal, 2003, 84, 3924-3930.	0.2	106
8	Structural Equilibrium Fluctuations in Mesophilic and Thermophilic Î±-Amylase. Biophysical Journal, 2000, 79, 1629-1636.	0.2	102
9	Bacteriorhodopsin: the functional details of a molecular machine are being resolved. Biophysical Chemistry, 2000, 85, 229-248.	1.5	78
10	Thermostability of Irreversible Unfolding Î±-Amylases Analyzed by Unfolding Kinetics. Journal of Biological Chemistry, 2005, 280, 37360-37365.	1.6	74
11	Anion reorientation in an ion conducting plastic crystal â€œ coherent quasielastic neutron scattering from sodium ortho-phosphate. Physica B: Condensed Matter, 1999, 266, 60-68.	1.3	68
12	First QINS results from the TOF-spectrometer NEAT. Physica B: Condensed Matter, 1996, 226, 86-91.	1.3	65
13	Function and picosecond dynamics of bacteriorhodopsin in purple membrane at different lipidation and hydration. FEBS Letters, 1998, 433, 321-325.	1.3	65
14	Large Domain Fluctuations on 50-ns Timescale Enable Catalytic Activity in Î±-Phosphoglycerate Kinase. Biophysical Journal, 2010, 99, 2309-2317.	0.2	62
15	Structural and dynamical features contributing to thermostability in Î±-amylases. Cellular and Molecular Life Sciences, 2005, 62, 1925-1937.	2.4	58
16	Uneven twins: Comparison of two enantiocomplementary hydroxynitrile lyases with Î±/Î²-hydrolase fold. Journal of Biotechnology, 2009, 141, 166-173.	1.9	54
17	Reversible and irreversible unfolding of multi-domain proteins. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2007, 1774, 1591-1603.	1.1	50
18	Fast Biosynthesis of GFP Molecules: A Single-Molecule Fluorescence Study. Angewandte Chemie - International Edition, 2009, 48, 1758-1761.	7.2	46

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19	Î±-Amylase from germinating soybean (Glycine max) seeds â€“ Purification, characterization and sequential similarity of conserved and catalytic amino acid residues. <i>Phytochemistry</i> , 2010, 71, 1657-1666.	1.4	46
20	Macromolecular Crowding: How Shape and Interactions Affect Diffusion. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7537-7543.	1.2	45
21	Effects of Solubilization on the Structure and Function of the Sensory Rhodopsin II/Transducer Complex. <i>Journal of Molecular Biology</i> , 2006, 356, 1207-1221.	2.0	44
22	Dehydration of biological membranes by cooling: an investigation on the purple membrane 1 Edited by J. Karn. <i>Journal of Molecular Biology</i> , 1998, 277, 593-603.	2.0	43
23	Observing Proteins as Single Molecules Encapsulated in Surfaceâ€“tethered Polymeric Nanocontainers. <i>ChemBioChem</i> , 2009, 10, 702-709.	1.3	37
24	Inter-Dye Distance Distributions Studied by a Combination of Single-Molecule FRET-Filtered Lifetime Measurements and a Weighted Accessible Volume (wAV) Algorithm. <i>Molecules</i> , 2014, 19, 19269-19291.	1.7	34
25	Translational Diffusion and Interaction of a Photoreceptor and Its Cognate Transducer Observed in Giant Unilamellar Vesicles by Using Dualâ€“Focus FCS. <i>ChemBioChem</i> , 2009, 10, 1823-1829.	1.3	33
26	Statistical Analysis of Diffusion Coefficient Determination by Fluorescence Correlation Spectroscopy. <i>Journal of Fluorescence</i> , 2005, 15, 415-422.	1.3	32
27	In-Situ Observation of Membrane Protein Folding during Cell-Free Expression. <i>PLoS ONE</i> , 2016, 11, e0151051.	1.1	32
28	Enzymeâ€“Polyelectrolyte Complexes Boost the Catalytic Performance of Enzymes. <i>ACS Catalysis</i> , 2018, 8, 10876-10887.	5.5	30
29	Proton diffusion on purple membrane studied by neutron scattering. <i>Biophysical Chemistry</i> , 1994, 49, 91-99.	1.5	28
30	Molecular motions and hydration of purple membranes and disk membranes studied by neutron scattering. <i>European Biophysics Journal</i> , 1998, 27, 638-645.	1.2	27
31	Dynamical properties of Î±-amylase in the folded and unfolded state: the role of thermal equilibrium fluctuations for conformational entropy and protein stabilisation. <i>Physica B: Condensed Matter</i> , 2001, 301, 1-7.	1.3	27
32	Impact of Molecular Crowding on Translational Mobility and Conformational Properties of Biological Macromolecules. <i>Journal of Physical Chemistry B</i> , 2019, 123, 4477-4486.	1.2	27
33	The perspectives of studying multi-domain protein folding. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 1672-1681.	2.4	26
34	Determination of Conformational Entropy of Fully and Partially Folded Conformations of Holo- and Apomyoglobin. <i>Journal of Physical Chemistry B</i> , 2015, 119, 72-82.	1.2	25
35	Conformational State Distributions and Catalytically Relevant Dynamics of Åa Hinge-Bending Enzyme Studied by Single-Molecule FRET and a Coarse-Grained Simulation. <i>Biophysical Journal</i> , 2014, 107, 1913-1923.	0.2	23
36	Genetically Encoded Förster Resonance Energy Transfer-Based Biosensors Studied on the Single-Molecule Level. <i>ACS Sensors</i> , 2018, 3, 1462-1470.	4.0	23

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37	Single molecule fluorescence spectroscopy: a tool for protein studies approaching cellular environmental conditions. <i>Soft Matter</i> , 2011, 7, 1254-1259.	1.2	22
38	Dynamics-Stability Relationships in Apo- and Holomyoglobin: A Combined Neutron Scattering and Molecular Dynamics Simulations Study. <i>Biophysical Journal</i> , 2012, 102, 351-359.	0.2	22
39	The effect of calcium binding on the unfolding barrier: A kinetic study on homologous Î±-amylases. <i>Biophysical Chemistry</i> , 2010, 151, 54-60.	1.5	21
40	Strong Adverse Contribution of Conformational Dynamics to Streptavidin-Biotin Binding. <i>Journal of Physical Chemistry B</i> , 2020, 124, 324-335.	1.2	21
41	Temperature dependence of molecular motions in the membrane protein bacteriorhodopsin from QINS. <i>Physica B: Condensed Matter</i> , 1996, 226, 61-65.	1.3	19
42	Native and Unfolded States of Phosphoglycerate Kinase Studied by Single-Molecule FRET. <i>ChemPhysChem</i> , 2011, 12, 704-710.	1.0	19
43	Factors influencing the operational stability of NADPH-dependent alcohol dehydrogenase and an NADH-dependent variant thereof in gas/solid reactors. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 67, 271-283.	1.8	18
44	Accurate Fluorescence Quantum Yield Determination by Fluorescence Correlation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4668-4672.	1.2	17
45	A Novel Method to Evaluate Ribosomal Performance in Cell-Free Protein Synthesis Systems. <i>Scientific Reports</i> , 2017, 7, 46753.	1.6	16
46	4f-spin dynamics in La _{2-x} Sr _x Nd _y CuO ₄ . <i>Physical Review B</i> , 1999, 60, 9793-9800.	1.1	14
47	Bacteriorhodopsin and rhodopsin studied by incoherent neutron scattering: dynamical properties of ground states and light activated intermediates. <i>Physica B: Condensed Matter</i> , 1999, 266, 35-40.	1.3	14
48	Selective Double-Labeling of Cell-Free Synthesized Proteins for More Accurate smFRET Studies. <i>Analytical Chemistry</i> , 2017, 89, 11278-11285.	3.2	14
49	Thermophoresis: The Case of Streptavidin and Biotin. <i>Polymers</i> , 2020, 12, 376.	2.0	14
50	Conformational dynamics of a protein in the folded and the unfolded state. <i>Chemical Physics</i> , 2003, 292, 405-411.	0.9	11
51	Single-Molecule FRET Measurements in Additive-Enriched Aqueous Solutions. <i>Analytical Chemistry</i> , 2017, 89, 694-702.	3.2	10
52	Cotranslational Incorporation into Proteins of a Fluorophore Suitable for smFRET Studies. <i>ACS Synthetic Biology</i> , 2018, 7, 405-411.	1.9	9
53	Transition between protein-like and polymer-like dynamic behavior: Internal friction in unfolded apomyoglobin depends on denaturing conditions. <i>Scientific Reports</i> , 2020, 10, 1570.	1.6	9
54	Brightness-gated two-color coincidence detection unravels two distinct mechanisms in bacterial protein translation initiation. <i>Communications Biology</i> , 2019, 2, 459.	2.0	8

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55	Mapping Multiple Distances in a Multidomain Protein for the Identification of Folding Intermediates. <i>Biophysical Journal</i> , 2020, 118, 688-697.	0.2	8
56	Structural Stability of Soybean (<i>Glycine max</i>) α -Amylase: Properties of the Unfolding Transition Studied with Fluorescence and CD Spectroscopy. <i>Protein and Peptide Letters</i> , 2011, 18, 253-260.	0.4	7
57	Nanosecond Dynamics of Calmodulin and Ribosome-Bound Nascent Chains Studied by Time-Resolved Fluorescence Anisotropy. <i>ChemBioChem</i> , 2014, 15, 977-985.	1.3	7
58	Structural Analysis of a Genetically Encoded FRET Biosensor by SAXS and MD Simulations. <i>Sensors</i> , 2021, 21, 4144.	2.1	6
59	Thermodiffusion as a probe of protein hydration for streptavidin and the streptavidin-biotin complex. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	5
60	Confined molecular motions of globular proteins studied in powder samples and in solution. <i>European Physical Journal Special Topics</i> , 2000, 10, Pr7-265-Pr7-270.	0.2	5
61	Single-Molecule Techniques and Cell-Free Protein Synthesis: A Perfect Marriage. <i>Analytical Chemistry</i> , 2019, 91, 2570-2576.	3.2	4
62	Spin dynamics in the high-Tc superconductor $\text{La}_{2-x}\text{Sr}_x\text{REyCuO}_4$. <i>Journal of Physics and Chemistry of Solids</i> , 1998, 59, 2233-2236.	1.9	3
63	Single-Molecule Studies on a FRET Biosensor: Lessons from a Comparison of Fluorescent Protein Equipped versus Dye-Labeled Species. <i>Molecules</i> , 2018, 23, 3105.	1.7	2
64	Impact of Molecule Concentration, Diffusion Rates and Surface Passivation on Single-Molecule Fluorescence Studies in Solution. <i>Biomolecules</i> , 2022, 12, 468.	1.8	2
65	Domain Fluctuations Enable Catalytic Activity in Phosphoglycerate Kinase?. <i>Biophysical Journal</i> , 2011, 100, 171a.	0.2	1
66	Preparation of Cell-free Synthesized Proteins Selectively Double Labeled for Single-molecule FRET Studies. <i>Bio-protocol</i> , 2018, 8, e2881.	0.2	1