Dmitri Toptygin

List of Publications by Year
in descending order

27 papers	910 citations	516710 16 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	1153 citing authors

#	Article	IF	Citations
1	The Magic of Linking Rings: Discovery of a Unique Photoinduced Fluorescent Protein Crosslink. Journal of the American Chemical Society, 2022, 144, 10809-10816.	13.7	4
2	Synchronized Real-time Measurement of Sec-mediated Protein Translocation. Bio-protocol, 2021, 11, e4129.	0.4	0
3	The SecA motor generates mechanical force during protein translocation. Nature Communications, 2020, 11, 3802.	12.8	26
4	Structural Stability of the Coiled-Coil Domain of Tumor Susceptibility Gene (TSG)-101. Biochemistry, 2017, 56, 4646-4655.	2.5	10
5	A genetic and physical study of the interdomain linker ofE. ColiAraC protein-atrans-subunit communication pathway. Proteins: Structure, Function and Bioinformatics, 2016, 84, 448-460.	2.6	7
6	Single-Molecule Chemo-Mechanical Spectroscopy Provides Structural Identity of Folding Intermediates. Biophysical Journal, 2016, 110, 1280-1290.	0.5	19
7	Phosphorylation Increases Persistence Length and End-to-End Distance of a Segment of Tau Protein. Biophysical Journal, 2016, 110, 362-371.	0.5	39
8	Time-Dependent Spectral Shifts in Tryptophan Fluorescence: Bridging Experiments with Molecular Dynamics Simulations. Reviews in Fluorescence, 2016, , 29-69.	0.5	1
9	Picosecond Fluorescence Dynamics of Tryptophan and 5-Fluorotryptophan in Monellin: Slow Waterâ€“Protein Relaxation Unmasked. Journal of Physical Chemistry B, 2015, 119, 4230-4239.	2.6	20
10	Effect of Diffusion on Resonance Energy Transfer Rate Distributions: Implications for Distance Measurements. Journal of Physical Chemistry B, 2015, 119, 12603-12622.	2.6	5
11	Analysis of Time-Dependent Red Shifts in Fluorescence Emission from Tryptophan Residues in Proteins. Methods in Molecular Biology, 2014, 1076, 215-256.	0.9	6
12	Nanosecond dynamics of influenza A/M2TM and an amantadine resistant mutant probed by time-dependent red shifts of a native tryptophan. Chemical Physics, 2013, 422, 73-79.	1.9	5
13	Pan1 is an intrinsically disordered protein with homotypic interactions. Proteins: Structure, Function and Bioinformatics, 2013, 81, 1944-1963.	2.6	7
14	Picosecond Protein Dynamics: The Origin of the Time-Dependent Spectral Shift in the Fluorescence of the Single Trp in the Protein GB1. Journal of Physical Chemistry B, 2010, 114, 11323-11337.	2.6	34
15	Femtosecond Fluorescence Spectra of Tryptophan in Human Î³-Crystallin Mutants: Site-Dependent Ultrafast Quenching. Journal of the American Chemical Society, 2009, 131, 16751-16757.	13.7	44
16	Mechanism of the Efficient Tryptophan Fluorescence Quenching in Human Î³D-Crystallin Studied by Time-Resolved Fluorescence. Biochemistry, 2008, 47, 10705-10721.	2.5	54
17	Ultrafast Fluorescence Dynamics of Tryptophan in the Proteins Monellin and IIAGlc. Journal of the American Chemical Society, 2006, 128, 1214-1221.	13.7	61
18	Nanosecond Relaxation Dynamics of Protein GB1 Identified by the Time-Dependent Red Shift in the Fluorescence of Tryptophan and 5-Fluorotryptophan. Journal of Physical Chemistry B, 2006, 110, 26292-26302.	2.6	57

#	Article	IF	Citations
19	Title is missing!. Journal of Fluorescence, 2003, 13, 201-219.	2.5	187
20	R150A Mutant of F TraI Relaxase Domain:Â Reduced Affinity and Specificity for Single-Stranded DNA and Altered Fluorescence Anisotropy of a Bound Labeled Oligonucleotideâ€. Biochemistry, 2002, 41, 6460-6468.	2.5	23
21	Effect of the Solvent Refractive Index on the Excited-State Lifetime of a Single Tryptophan Residue in a Protein. Journal of Physical Chemistry B, 2002, 106, 3724-3734.	2.6	67
22	Homogeneous Spectrally- and Time-Resolved Fluorescence Emission from Single-Tryptophan Mutants of IIAGlc Protein. Journal of Physical Chemistry B, 2001, 105, 2043-2055.	2.6	73
23	Spectrally- and time-resolved fluorescence emission of indole during solvent relaxation: a quantitative model. Chemical Physics Letters, 2000, 322, 496-502.	2.6	57
24	A nanosecond fluorescence study of the simultaneous influx of Ca2+ and Cd2+ into liposomes. Biophysical Chemistry, 1998, 71, 63-72.	2.8	9
25	Fluorescence Study of the Multiple Binding Equilibria of the Galactose Repressorâ€. Biochemistry, 1998, 37, 41-50.	2.5	12
26	Resolution of absorption spectra of rhodamine 6G aggregates in aqueous solution using the law of mass action. Chemical Physics Letters, 1997, 277, 430-435.	2.6	58
27	Steady-state and time-resolved fluorescence measurements for studying molecular interactions: interaction of a calcium-binding probe with proteins. Biophysical Chemistry, 1996, 62, 25-38.	2.8	25