Claudiu C Gradinaru

List of Publications by Year
in descending order

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92	2,730	186209	189801
papers	citations	28 h-index	50 g-index

100	100	100	2977
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Protein Dynamics to Define and Refine Disordered Protein Ensembles. Journal of Physical Chemistry B, 2022, 126, 1885-1894.	1.2	9
2	Multisite phosphorylation and binding alter conformational dynamics of the 4E-BP2 protein. Biophysical Journal, 2022, 121, 3049-3060.	0.2	4
3	Integrating NMR, SAXS and Single-Molecule FRET Data to Infer Conformational Ensembles of the Yeast Sic1 Protein. Biophysical Journal, 2021, 120, 30a.	0.2	1
4	Modelling the Multifarious Conformations of the Intrinsically Disordered Protein 4E-BP2 with sm-FRET, SAXS & PRE Restraints. Biophysical Journal, 2021, 120, 215a.	0.2	0
5	Ligand modulation of the conformational dynamics of the A2A adenosine receptor revealed by single-molecule fluorescence. Scientific Reports, 2021, 11, 5910.	1.6	17
6	Multifunctional nanoparticles as theranostic agents for therapy and imaging of breast cancer. Journal of Photochemistry and Photobiology B: Biology, 2021, 218, 112110.	1.7	20
7	PED in 2021: a major update of the protein ensemble database for intrinsically disordered proteins. Nucleic Acids Research, 2021, 49, D404-D411.	6.5	95
8	Structure and Function Implications of Conformational Ensembles Consistent with NMR, SAXS, and smFRET Data. The Disordered Protein SIC1 Before and After Multisite Phosphorylation. Biophysical Journal, 2020, 118, 60a.	0.2	1
9	Conformational Ensembles of an Intrinsically Disordered Protein Consistent with NMR, SAXS, and Single-Molecule FRET. Journal of the American Chemical Society, 2020, 142, 15697-15710.	6.6	120
10	Extended experimental inferential structure determination method in determining the structural ensembles of disordered protein states. Communications Chemistry, 2020, 3, .	2.0	39
11	Non-cooperative 4E-BP2 folding with exchange between eIF4E-binding and binding-incompatible states tunes cap-dependent translation inhibition. Nature Communications, 2020, 11, 3146.	5.8	17
12	Dynamic Fingerprinting of the A2A Adenosine Receptor in Different Ligand-biased States. Biophysical Journal, 2020, 118, 178a.	0.2	0
13	Bayesian counting of photobleaching steps with physical priors. Journal of Chemical Physics, 2020, 152, 024110.	1.2	11
14	Dynamic Interactions between a Disordered Protein and its Target at the Single-Molecule Level. Biophysical Journal, 2019, 116, 311a.	0.2	0
15	Dynamic Interactions between an Intrinsically Disordered Protein and its Binding Partners Probed by Multiparameter Single-Molecule Fluorescence. Biophysical Journal, 2019, 116, 201a.	0.2	0
16	Local Chain Dynamics of Intrinsically Disordered Sic1 Protein Inferred from Fluorescence Anisotropy Decay Measurements. Biophysical Journal, 2019, 116, 201a.	0.2	0
17	To Flash or Not to Flash? Characterization of Fluorescein Arsenical Hairpin (FlAsH) as a Probe for Single-Molecule Fluorescence Spectroscopy. Biophysical Journal, 2018, 114, 170a.	0.2	0
18	Conformational Heterogeneity and Theory of Sequence-Specific Functional Phase Separation of Intrinsically Disordered Proteins. Biophysical Journal, 2018, 114, 6a.	0.2	0

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19	Exocyst dynamics during vesicle tethering and fusion. Nature Communications, 2018, 9, 5140.	5.8	96
20	Diverse Diffusion Regimes of Individual M2 Muscarinic Receptors and Gi Proteins in Live Cells. Biophysical Journal, 2018, 114, 239a.	0.2	0
21	Global Dimensions are Decoupled from Electrostatics in the Intrinsically Disordered Protein Sic1. Biophysical Journal, 2018, 114, 591a.	0.2	0
22	Probing the Conformational Dynamics of the Disordered 4E-BP2 Protein in Different Phosphorylation States using Single-Molecule Fluorescence. Biophysical Journal, 2018, 114, 368a.	0.2	0
23	Ligand-Induced Coupling between Oligomers of the M2 Receptor and the Gi1 Protein in Live Cells. Biophysical Journal, 2018, 115, 881-895.	0.2	19
24	Choosing the right fluorophore for single-molecule fluorescence studies in a lipid environment. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1242-1253.	1.4	42
25	Insights into the conformations and dynamics of intrinsically disordered proteins using single-molecule fluorescence. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1696-1706.	1.1	37
26	Single Molecule FRET Investigation of the Dimensions and Dynamics in Highly Cooperative Sic1-WD40 Binding. Biophysical Journal, 2017, 112, 315a-316a.	0.2	0
27	The Role of G-Protein-Coupled Receptor Activation by Conformational Selection as Revealed by Single-Molecule Fluorescence. Biophysical Journal, 2017, 112, 327a-328a.	0.2	0
28	Interplay Among Binding, Phosphorylation and Denaturation in Disordered 4E-BP2 as Probed by Single Molecule Fluorescence. Biophysical Journal, 2017, 112, 510a.	0.2	0
29	The M2 Muscarinic Receptor Signaling Complex Resolved by Single Molecule Tracking in Live Cells. Biophysical Journal, 2017, 112, 87a-88a.	0.2	0
30	Single-Molecule Analysis of the Supramolecular Organization of the M2 Muscarinic Receptor and the Gî± i1 Protein. Biophysical Journal, 2017, 112, 27a-28a.	0.2	0
31	Characterization of Fluorescein Arsenical Hairpin (FlAsH) as a Probe for Single-Molecule Fluorescence Spectroscopy. Scientific Reports, 2017, 7, 13063.	1.6	10
32	Conformational Heterogeneity and FRET Data Interpretation for Dimensions of Unfolded Proteins. Biophysical Journal, 2017, 113, 1012-1024.	0.2	61
33	Single-Molecule Dissection of the Conformations, Dynamics and Binding of the Disordered 4E-BP2 Protein. Biophysical Journal, 2016, 110, 556a-557a.	0.2	0
34	A New Approach to Infer Size and Shape of Disordered Conformations of Proteins from Sm-FRET Data. Biophysical Journal, 2016, 110, 37a.	0.2	0
35	In Vitro Studies of Multifunctional Perfluorocarbon Nanoemulsions for Cancer Therapy and Imaging. Biophysical Journal, 2016, 110, 503a.	0.2	2
36	Single-Molecule Study of the Oligomeric States of the M2 Muscarinic Receptor, the Gi1 Protein and the M2-Gi1 Complex. Biophysical Journal, 2016, 110, 216a.	0.2	0

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37	Conformations of a Metastable SH3 Domain Characterized by smFRET and an Excluded-Volume Polymer Model. Biophysical Journal, 2016, 110, 1510-1522.	0.2	23
38	Single-Molecule Analysis of the Supramolecular Organization of the M₂ Muscarinic Receptor and the Gî±_{i1} Protein. Journal of the American Chemical Society, 2016, 138, 11583-11598.	6.6	26
39	Synthesis of Stable Multifunctional Perfluorocarbon Nanoemulsions for Cancer Therapy and Imaging. Langmuir, 2016, 32, 10870-10880.	1.6	73
40	Dimensions and Dynamics of Highly Cooperative Sic1-WD40 Binding: smFRET through a Polymer Physics Lens. Biophysical Journal, 2016, 110, 560a.	0.2	0
41	Allosteric modulation in monomers and oligomers of a G protein-coupled receptor. ELife, 2016, 5, .	2.8	21
42	Phase Change Nanoemulsions for Cancer Therapy and Imaging. Biophysical Journal, 2015, 108, 332a-333a.	0.2	1
43	An Adequate Account of Excluded Volume Is Necessary To Infer Compactness and Asphericity of Disordered Proteins by FÃ¶rster Resonance Energy Transfer. Journal of Physical Chemistry B, 2015, 119, 15191-15202.	1.2	44
44	Multifunctional perfluorocarbon nanoemulsions for cancer therapy and imaging. , 2015, , .		0
45	Single Lipid Bilayer Deposition on Polymer Surfaces Using Bicelles. Biomacromolecules, 2015, 16, 1032-1039.	2.6	18
46	The Advanced Interdisciplinary Research Laboratory: A Student Team Approach to the Fourth-Year Research Thesis Project Experience. Journal of Chemical Education, 2014, 91, 655-661.	1.1	21
47	The Effect of Intrachain Electrostatic Repulsion on Conformational Disorder and Dynamics of the Sic1 Protein. Journal of Physical Chemistry B, 2014, 118, 4088-4097.	1.2	55
48	Nature of the M2 Muscarinic Receptor Signaling Complex Revealed by Dual-Color FCS and FRET. Biophysical Journal, 2014, 106, 101a.	0.2	2
49	How Electrostatics Influences the Conformational Disorder and Dynamics of the Sic1 Protein: A Single-Molecule Study. Biophysical Journal, 2014, 106, 688a.	0.2	0
50	The Conformations of the DrkN SH3 Domain Studied by Single Molecule Fluorescence Spectroscopy. Biophysical Journal, 2014, 106, 50a.	0.2	2
51	Electrostatics-Dependent Shape of the Intrinsically-Disordered Protein Sic1. Biophysical Journal, 2014, 106, 689a.	0.2	0
52	Isolation of Monovalent Quantum Dotâ€“Nucleic Acid Conjugates Using Magnetic Beads. Bioconjugate Chemistry, 2014, 25, 1342-1350.	1.8	17
53	The Intrinsically Unstable SH3-DRKN Protein: Compactness, Conformations and Speed. Biophysical Journal, 2013, 104, 190a-191a.	0.2	0
54	Sub-Diffusion Decays in Fluorescence Correlation Spectroscopy: Dye Photophysics or Protein Dynamics?. Journal of Physical Chemistry B, 2013, 117, 11100-11111.	1.2	11

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55	Liposome-Coated Hydrogel Spheres: Delivery Vehicles with Tandem Release from Distinct Compartments. Langmuir, 2013, 29, 14603-14612.	1.6	13
56	Src homology 2 domain proteomimetics: developing phosphopeptide selective receptors. MedChemComm, 2012, 3, 763.	3.5	9
57	Ultrasensitive on-column laser-induced fluorescence in capillary electrophoresis using multiparameter confocal detection. Analyst, The, 2012, 137, 5538.	1.7	10
58	Electrostatics and Intrinsic Disorder: A Single-Molecule Study of the Sic1 Protein. Biophysical Journal, 2012, 102, 10a.	0.2	0
59	Phosphopeptide Selective Coordination Complexes as Promising Src Homology 2 Domain Mimetics. Inorganic Chemistry, 2012, 51, 8284-8291.	1.9	10
60	Size, Shape and Motions of the SH3 Domain of the Drosophila Adapter Protein Drk. Biophysical Journal, 2012, 102, 453a.	0.2	0
61	Detection of a Thousand Copies of miRNA without Enrichment or Modification. Analytical Chemistry, 2012, 84, 5470-5474.	3.2	48
62	Lipogels: Single-Lipid-Bilayer-Enclosed Hydrogel Spheres. Biomacromolecules, 2011, 12, 2364-2374.	2.6	43
63	An Improved Method for Studying Single Proteins Trapped in Lipid Vesicles. Biophysical Journal, 2011, 100, 615a.	0.2	0
64	The effect of Brownian motion of fluorescent probes on measuring nanoscale distances by FÃ¶rster resonance energy transfer. Journal of Chemical Physics, 2011, 134, 225102.	1.2	30
65	Artificially Induced Proteinâ€“Membrane Anchorage with Cholesterolâ€Based Recognition Agents as a New Therapeutic Concept. Angewandte Chemie - International Edition, 2011, 50, 6248-6253.	7.2	17
66	On the performance of bioanalytical fluorescence correlation spectroscopy measurements in a multiparameter photon-counting microscope. Analytica Chimica Acta, 2011, 688, 61-69.	2.6	15
67	A mixed film composed of oligonucleotides and poly(2-hydroxyethyl methacrylate) brushes to enhance selectivity for detection of single nucleotide polymorphisms. Analytica Chimica Acta, 2010, 661, 103-110.	2.6	5
68	Triggered Instability of Liposomes Bound to Hydrophobically Modified Coreâˆ'Shell PNIPAM Hydrogel Beads. Langmuir, 2010, 26, 1081-1089.	1.6	28
69	Trapping Single Molecules in Liposomes: Surface Interactions and Freezeâˆ'Thaw Effects. Journal of Physical Chemistry B, 2010, 114, 15191-15198.	1.2	38
70	Fluorescence anisotropy: from single molecules to live cells. Analyst, The, 2010, 135, 452.	1.7	108
71	Coordination complex SH2 domain proteomimetics: an alternative approach to disrupting oncogenic proteinâ€“protein interactions. Chemical Communications, 2010, 46, 892-894.	2.2	34
72	Development of methods to study the conformational dynamics of quantum dot-oligonucleotide conjugates by single molecule spectroscopy. Proceedings of SPIE, 2009, , .	0.8	6

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73	A Photostable, pH-Invariant Fluorescein Derivative for Single-Molecule Microscopy. Journal of Fluorescence, 2009, 19, 915-920.	1.3	31
74	Liposomeâ˜Hydrogel Bead Complexes Prepared via Biotinâ˜Avidin Conjugation. Langmuir, 2009, 25, 9413-9423.	1.6	20
75	Single-molecule fluorescence study of the inhibition of the oncogenic functionality of STAT3. , 2009, , .		0
76	Simultaneous Time- and Wavelength-Resolved Fluorescence Microscopy of Single Molecules. Journal of Physical Chemistry B, 2005, 109, 15691-15698.	1.2	28
77	Simultaneous atomic-force and two-photon fluorescence imaging of biological specimens in vivo. Ultramicroscopy, 2004, 99, 235-245.	0.8	33
78	Energy and Electron Transfer in Photosystem II Reaction Centers with Modified Pheophytin Composition. Biophysical Journal, 2004, 86, 1664-1672.	0.2	23
79	Selective Interaction between Xanthophylls and Chlorophylls in LHCII Probed by Femtosecond Transient Absorption Spectroscopy. Journal of Physical Chemistry B, 2003, 107, 3938-3943.	1.2	27
80	Stark spectroscopy of the light-harvesting complex II in different oligomerisation states. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1605, 83-95.	0.5	36
81	The primary photoreaction of photoactive yellow protein (PYP): anisotropy changes and excitation wavelength dependence. Chemical Physics Letters, 2002, 356, 347-354.	1.2	58
82	Energy Transfer in the Peridinin Chlorophyll-a Protein of Amphidinium carterae Studied by Polarized Transient Absorption and Target Analysis. Biophysical Journal, 2001, 80, 2843-2855.	0.2	113
83	ENERGY TRANSFER IN THE PERIDININ CHLOROPHYLL a PROTEIN OF AMPHIDINIUM CARTERAE STUDIED BY POLARIZED ABSORPTION MEASUREMENTS. International Journal of Modern Physics B, 2001, 15, 3849-3852.	1.0	5
84	An unusual pathway of excitation energy deactivation in carotenoids: Singlet-to-triplet conversion on an ultrafast timescale in a photosynthetic antenna. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 2364-2369.	3.3	326
85	Identifying the Pathways of Energy Transfer between Carotenoids and Chlorophylls in LHCII and CP29. A Multicolor, Femtosecond Pumpâ˜Probe Study. Journal of Physical Chemistry B, 2000, 104, 9330-9342.	1.2	203
86	Structure and Interactions of the ChlorophyllaMolecules in the Higher Plant Lhcb4 Antenna Protein. Journal of Physical Chemistry B, 2000, 104, 9317-9321.	1.2	22
87	Spectroscopic characterization of the spinach Lhcb4 protein (CP29), a minor light-harvesting complex of photosystem II. FEBS Journal, 1999, 262, 817-823.	0.2	51
88	Ultrafast Evolution of the Excited States in the Chlorophyll a/b Complex CP29 from Green Plants Studied by Energy-Selective Pumpâ˜Probe Spectroscopy. Biochemistry, 1998, 37, 1143-1149.	1.2	69
89	The Flow of Excitation Energy in LHCII Monomers: Implications for the Structural Model of the Major Plant Antenna. Biophysical Journal, 1998, 75, 3064-3077.	0.2	124
90	Xanthophylls in Light-Harvesting Complex II of Higher Plants:Â Light Harvesting and Triplet Quenchingâ€. Biochemistry, 1997, 36, 12208-12215.	1.2	128

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91	Energy Transfer in LHCII Monomers at 77K Studied by Sub-Picosecond Transient Absorption Spectroscopy. Biochemistry, 1997, 36, 15262-15268.	1.2	88
92	Integrative Conformational Ensembles of Sic1 Using Different Initial Pools and Optimization Methods. Frontiers in Molecular Biosciences, 0, 9, .	1.6	9