

# Claudiu C Gradinaru

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3304096/publications.pdf>

Version: 2024-02-01

92  
papers

2,730  
citations

186209

28  
h-index

189801

50  
g-index

100  
all docs

100  
docs citations

100  
times ranked

2977  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Identifying the Pathways of Energy Transfer between Carotenoids and Chlorophylls in LHCII and CP29. A Multicolor, Femtosecond Pump-Probe Study. Journal of Physical Chemistry B, 2000, 104, 9330-9342.	1.2	203
3	Xanthophylls in Light-Harvesting Complex II of Higher Plants: A Light Harvesting and Triplet Quenching. Biochemistry, 1997, 36, 12208-12215.	1.2	128
4	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
5	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
6	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
7	Fluorescence anisotropy: from single molecules to live cells. Analyst, The, 2010, 135, 452.	1.7	108
8	Exocyst dynamics during vesicle tethering and fusion. Nature Communications, 2018, 9, 5140.	5.8	96
9	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
10	Energy Transfer in LHCII Monomers at 77K Studied by Sub-Picosecond Transient Absorption Spectroscopy. Biochemistry, 1997, 36, 15262-15268.	1.2	88
11	Synthesis of Stable Multifunctional Perfluorocarbon Nanoemulsions for Cancer Therapy and Imaging. Langmuir, 2016, 32, 10870-10880.	1.6	73
12	Ultrafast Evolution of the Excited States in the Chlorophyll a/b Complex CP29 from Green Plants Studied by Energy-Selective Pump-Probe Spectroscopy. Biochemistry, 1998, 37, 1143-1149.	1.2	69
13	Conformational Heterogeneity and FRET Data Interpretation for Dimensions of Unfolded Proteins. Biophysical Journal, 2017, 113, 1012-1024.	0.2	61
14	The primary photoreaction of photoactive yellow protein (PYP): anisotropy changes and excitation wavelength dependence. Chemical Physics Letters, 2002, 356, 347-354.	1.2	58
15	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
16	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
17	Detection of a Thousand Copies of miRNA without Enrichment or Modification. Analytical Chemistry, 2012, 84, 5470-5474.	3.2	48
18	An Adequate Account of Excluded Volume Is Necessary To Infer Compactness and Asphericity of Disordered Proteins by Förster Resonance Energy Transfer. Journal of Physical Chemistry B, 2015, 119, 15191-15202.	1.2	44

#	ARTICLE	IF	CITATIONS
19	Lipogels: Single-Lipid-Bilayer-Enclosed Hydrogel Spheres. <i>Biomacromolecules</i> , 2011, 12, 2364-2374.	2.6	43
20	Choosing the right fluorophore for single-molecule fluorescence studies in a lipid environment. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1242-1253.	1.4	42
21	Extended experimental inferential structure determination method in determining the structural ensembles of disordered protein states. <i>Communications Chemistry</i> , 2020, 3, .	2.0	39
22	Trapping Single Molecules in Liposomes: Surface Interactions and Freeze-Thaw Effects. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15191-15198.	1.2	38
23	Insights into the conformations and dynamics of intrinsically disordered proteins using single-molecule fluorescence. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1696-1706.	1.1	37
24	Stark spectroscopy of the light-harvesting complex II in different oligomerisation states. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003, 1605, 83-95.	0.5	36
25	Coordination complex SH2 domain proteomimetics: an alternative approach to disrupting oncogenic protein-protein interactions. <i>Chemical Communications</i> , 2010, 46, 892-894.	2.2	34
26	Simultaneous atomic-force and two-photon fluorescence imaging of biological specimens in vivo. <i>Ultramicroscopy</i> , 2004, 99, 235-245.	0.8	33
27	A Photostable, pH-Invariant Fluorescein Derivative for Single-Molecule Microscopy. <i>Journal of Fluorescence</i> , 2009, 19, 915-920.	1.3	31
28	The effect of Brownian motion of fluorescent probes on measuring nanoscale distances by Förster resonance energy transfer. <i>Journal of Chemical Physics</i> , 2011, 134, 225102.	1.2	30
29	Simultaneous Time- and Wavelength-Resolved Fluorescence Microscopy of Single Molecules. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15691-15698.	1.2	28
30	Triggered Instability of Liposomes Bound to Hydrophobically Modified Core-Shell PNIPAM Hydrogel Beads. <i>Langmuir</i> , 2010, 26, 1081-1089.	1.6	28
31	Selective Interaction between Xanthophylls and Chlorophylls in LHCII Probed by Femtosecond Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3938-3943.	1.2	27
32	Single-Molecule Analysis of the Supramolecular Organization of the M <sub>2</sub> Muscarinic Receptor and the G <sub>i1</sub> Protein. <i>Journal of the American Chemical Society</i> , 2016, 138, 11583-11598.	6.6	26
33	Energy and Electron Transfer in Photosystem II Reaction Centers with Modified Pheophytin Composition. <i>Biophysical Journal</i> , 2004, 86, 1664-1672.	0.2	23
34	Conformations of a Metastable SH3 Domain Characterized by smFRET and an Excluded-Volume Polymer Model. <i>Biophysical Journal</i> , 2016, 110, 1510-1522.	0.2	23
35	Structure and Interactions of the Chlorophylla Molecules in the Higher Plant Lhcb4 Antenna Protein. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9317-9321.	1.2	22
36	The Advanced Interdisciplinary Research Laboratory: A Student Team Approach to the Fourth-Year Research Thesis Project Experience. <i>Journal of Chemical Education</i> , 2014, 91, 655-661.	1.1	21

#	ARTICLE	IF	CITATIONS
37	Allosteric modulation in monomers and oligomers of a G protein-coupled receptor. <i>ELife</i> , 2016, 5, .	2.8	21
38	Liposome-Hydrogel Bead Complexes Prepared via Biotin-Avidin Conjugation. <i>Langmuir</i> , 2009, 25, 9413-9423.	1.6	20
39	Multifunctional nanoparticles as theranostic agents for therapy and imaging of breast cancer. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 218, 112110.	1.7	20
40	Ligand-Induced Coupling between Oligomers of the M2 Receptor and the Gi1 Protein in Live Cells. <i>Biophysical Journal</i> , 2018, 115, 881-895.	0.2	19
41	Single Lipid Bilayer Deposition on Polymer Surfaces Using Bicelles. <i>Biomacromolecules</i> , 2015, 16, 1032-1039.	2.6	18
42	Artificially Induced Protein-Membrane Anchorage with Cholesterol-Based Recognition Agents as a New Therapeutic Concept. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6248-6253.	7.2	17
43	Isolation of Monovalent Quantum Dot-Nucleic Acid Conjugates Using Magnetic Beads. <i>Bioconjugate Chemistry</i> , 2014, 25, 1342-1350.	1.8	17
44	Non-cooperative 4E-BP2 folding with exchange between eIF4E-binding and binding-incompatible states tunes cap-dependent translation inhibition. <i>Nature Communications</i> , 2020, 11, 3146.	5.8	17
45	Ligand modulation of the conformational dynamics of the A2A adenosine receptor revealed by single-molecule fluorescence. <i>Scientific Reports</i> , 2021, 11, 5910.	1.6	17
46	On the performance of bioanalytical fluorescence correlation spectroscopy measurements in a multiparameter photon-counting microscope. <i>Analytica Chimica Acta</i> , 2011, 688, 61-69.	2.6	15
47	Liposome-Coated Hydrogel Spheres: Delivery Vehicles with Tandem Release from Distinct Compartments. <i>Langmuir</i> , 2013, 29, 14603-14612.	1.6	13
48	Sub-Diffusion Decays in Fluorescence Correlation Spectroscopy: Dye Photophysics or Protein Dynamics?. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11100-11111.	1.2	11
49	Bayesian counting of photobleaching steps with physical priors. <i>Journal of Chemical Physics</i> , 2020, 152, 024110.	1.2	11
50	Ultrasensitive on-column laser-induced fluorescence in capillary electrophoresis using multiparameter confocal detection. <i>Analyst</i> , The, 2012, 137, 5538.	1.7	10
51	Phosphopeptide Selective Coordination Complexes as Promising Src Homology 2 Domain Mimetics. <i>Inorganic Chemistry</i> , 2012, 51, 8284-8291.	1.9	10
52	Characterization of Fluorescein Arsenical Hairpin (FLaSH) as a Probe for Single-Molecule Fluorescence Spectroscopy. <i>Scientific Reports</i> , 2017, 7, 13063.	1.6	10
53	Src homology 2 domain proteomimetics: developing phosphopeptide selective receptors. <i>MedChemComm</i> , 2012, 3, 763.	3.5	9
54	Protein Dynamics to Define and Refine Disordered Protein Ensembles. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1885-1894.	1.2	9

#	ARTICLE	IF	CITATIONS
55	Integrative Conformational Ensembles of Sic1 Using Different Initial Pools and Optimization Methods. <i>Frontiers in Molecular Biosciences</i> , 0, 9, .	1.6	9
56	Development of methods to study the conformational dynamics of quantum dot-oligonucleotide conjugates by single molecule spectroscopy. <i>Proceedings of SPIE</i> , 2009, , .	0.8	6
57	ENERGY TRANSFER IN THE PERIDININ CHLOROPHYLL a PROTEIN OF AMPHIDINIUM CARTERAE STUDIED BY POLARIZED ABSORPTION MEASUREMENTS. <i>International Journal of Modern Physics B</i> , 2001, 15, 3849-3852.	1.0	5
58	A mixed film composed of oligonucleotides and poly(2-hydroxyethyl methacrylate) brushes to enhance selectivity for detection of single nucleotide polymorphisms. <i>Analytica Chimica Acta</i> , 2010, 661, 103-110.	2.6	5
59	Multisite phosphorylation and binding alter conformational dynamics of the 4E-BP2 protein. <i>Biophysical Journal</i> , 2022, 121, 3049-3060.	0.2	4
60	Nature of the M2 Muscarinic Receptor Signaling Complex Revealed by Dual-Color FCS and FRET. <i>Biophysical Journal</i> , 2014, 106, 101a.	0.2	2
61	The Conformations of the DrkN SH3 Domain Studied by Single Molecule Fluorescence Spectroscopy. <i>Biophysical Journal</i> , 2014, 106, 50a.	0.2	2
62	In Vitro Studies of Multifunctional Perfluorocarbon Nanoemulsions for Cancer Therapy and Imaging. <i>Biophysical Journal</i> , 2016, 110, 503a.	0.2	2
63	Phase Change Nanoemulsions for Cancer Therapy and Imaging. <i>Biophysical Journal</i> , 2015, 108, 332a-333a.	0.2	1
64	Structure and Function Implications of Conformational Ensembles Consistent with NMR, SAXS, and smFRET Data. The Disordered Protein SIC1 Before and After Multisite Phosphorylation. <i>Biophysical Journal</i> , 2020, 118, 60a.	0.2	1
65	Integrating NMR, SAXS and Single-Molecule FRET Data to Infer Conformational Ensembles of the Yeast Sic1 Protein. <i>Biophysical Journal</i> , 2021, 120, 30a.	0.2	1
66	Single-molecule fluorescence study of the inhibition of the oncogenic functionality of STAT3. , 2009, , .		0
67	An Improved Method for Studying Single Proteins Trapped in Lipid Vesicles. <i>Biophysical Journal</i> , 2011, 100, 615a.	0.2	0
68	Electrostatics and Intrinsic Disorder: A Single-Molecule Study of the Sic1 Protein. <i>Biophysical Journal</i> , 2012, 102, 10a.	0.2	0
69	Size, Shape and Motions of the SH3 Domain of the Drosophila Adapter Protein Drk. <i>Biophysical Journal</i> , 2012, 102, 453a.	0.2	0
70	The Intrinsically Unstable SH3-DRKN Protein: Compactness, Conformations and Speed. <i>Biophysical Journal</i> , 2013, 104, 190a-191a.	0.2	0
71	How Electrostatics Influences the Conformational Disorder and Dynamics of the Sic1 Protein: A Single-Molecule Study. <i>Biophysical Journal</i> , 2014, 106, 688a.	0.2	0
72	Electrostatics-Dependent Shape of the Intrinsically-Disordered Protein Sic1. <i>Biophysical Journal</i> , 2014, 106, 689a.	0.2	0

#	ARTICLE	IF	CITATIONS
73	Multifunctional perfluorocarbon nanoemulsions for cancer therapy and imaging. , 2015, , .		0
74	Single-Molecule Dissection of the Conformations, Dynamics and Binding of the Disordered 4E-BP2 Protein. Biophysical Journal, 2016, 110, 556a-557a.	0.2	0
75	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
76	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
77	Dimensions and Dynamics of Highly Cooperative Sic1-WD40 Binding: smFRET through a Polymer Physics Lens. Biophysical Journal, 2016, 110, 560a.	0.2	0
78	Single Molecule FRET Investigation of the Dimensions and Dynamics in Highly Cooperative Sic1-WD40 Binding. Biophysical Journal, 2017, 112, 315a-316a.	0.2	0
79	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
80	Interplay Among Binding, Phosphorylation and Denaturation in Disordered 4E-BP2 as Probed by Single Molecule Fluorescence. Biophysical Journal, 2017, 112, 510a.	0.2	0
81	The M2 Muscarinic Receptor Signaling Complex Resolved by Single Molecule Tracking in Live Cells. Biophysical Journal, 2017, 112, 87a-88a.	0.2	0
82	Single-Molecule Analysis of the Supramolecular Organization of the M2 Muscarinic Receptor and the Gi1 Protein. Biophysical Journal, 2017, 112, 27a-28a.	0.2	0
83	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
84	Conformational Heterogeneity and Theory of Sequence-Specific Functional Phase Separation of Intrinsically Disordered Proteins. Biophysical Journal, 2018, 114, 6a.	0.2	0
85	Diverse Diffusion Regimes of Individual M2 Muscarinic Receptors and Gi Proteins in Live Cells. Biophysical Journal, 2018, 114, 239a.	0.2	0
86	Global Dimensions are Decoupled from Electrostatics in the Intrinsically Disordered Protein Sic1. Biophysical Journal, 2018, 114, 591a.	0.2	0
87	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
88	Dynamic Interactions between a Disordered Protein and its Target at the Single-Molecule Level. Biophysical Journal, 2019, 116, 311a.	0.2	0
89	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
90	Local Chain Dynamics of Intrinsically Disordered Sic1 Protein Inferred from Fluorescence Anisotropy Decay Measurements. Biophysical Journal, 2019, 116, 201a.	0.2	0

#	ARTICLE	IF	CITATIONS
91	Dynamic Fingerprinting of the A2A Adenosine Receptor in Different Ligand-biased States. Biophysical Journal, 2020, 118, 178a.	0.2	0
92	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