

# Rajaram Swaminathan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7800785/publications.pdf>

Version: 2024-02-01

44  
papers

2,196  
citations

394421

19  
h-index

361022

35  
g-index

45  
all docs

45  
docs citations

45  
times ranked

3112  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photobleaching recovery and anisotropy decay of green fluorescent protein GFP-S65T in solution and cells: cytoplasmic viscosity probed by green fluorescent protein translational and rotational diffusion. <i>Biophysical Journal</i> , 1997, 72, 1900-1907.	0.5	563
2	Rapid Diffusion of Green Fluorescent Protein in the Mitochondrial Matrix. <i>Journal of Cell Biology</i> , 1998, 140, 821-829.	5.2	215
3	Lysozyme. <i>Advances in Protein Chemistry and Structural Biology</i> , 2011, 84, 63-111.	2.3	205
4	Collagen Promotes Higher Adhesion, Survival and Proliferation of Mesenchymal Stem Cells. <i>PLoS ONE</i> , 2015, 10, e0145068.	2.5	201
5	Similarity of fluorescence lifetime distributions for single tryptophan proteins in the random coil state. <i>Biophysical Journal</i> , 1994, 67, 2013-2023.	0.5	147
6	Near UV-Visible electronic absorption originating from charged amino acids in a monomeric protein. <i>Chemical Science</i> , 2017, 8, 5416-5433.	7.4	136
7	Cytoplasmic viscosity near the cell plasma membrane: translational diffusion of a small fluorescent solute measured by total internal reflection-fluorescence photobleaching recovery. <i>Biophysical Journal</i> , 1996, 71, 1140-1151.	0.5	98
8	How do surfactants and DTT affect the size, dynamics, activity and growth of soluble lysozyme aggregates?. <i>Biochemical Journal</i> , 2008, 415, 275-288.	3.7	72
9	Effect of crowding by dextrans and Ficolls on the rate of alkaline phosphatase-catalyzed hydrolysis: A size-dependent investigation. <i>Biopolymers</i> , 2006, 83, 477-486.	2.4	69
10	Thioflavin T Displays Enhanced Fluorescence Selectively Inside Anionic Micelles and Mammalian Cells. <i>Journal of Fluorescence</i> , 2008, 18, 1199-1205.	2.5	64
11	Hydrogen bond induced twisted intramolecular charge transfer in 2-(4- $\text{N,N}$ -dimethylaminophenyl)imidazo[4,5-b]pyridine. <i>Chemical Physics Letters</i> , 2008, 460, 119-124.	2.6	61
12	Motional Dynamics of a Buried Tryptophan Reveals the Presence of Partially Structured Forms during Denaturation of Barstar. <i>Biochemistry</i> , 1996, 35, 9150-9157.	2.5	54
13	Novel Absorption and Fluorescence Characteristics of L-Lysine. <i>Chemistry Letters</i> , 2001, 30, 844-845.	1.3	44
14	Suppression of lysozyme aggregation at alkaline pH by tri-N-acetylchitotriose. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009, 1794, 913-920.	2.3	34
15	Near Ultraviolet Absorption Arising from Lysine Residues in Close Proximity: A Probe to Monitor Protein Unfolding and Aggregation in Lysine-Rich Proteins. <i>Bulletin of the Chemical Society of Japan</i> , 2004, 77, 765-769.	3.2	28
16	Slow aggregation of lysozyme in alkaline pH monitored in real time employing the fluorescence anisotropy of covalently labelled dansyl probe. <i>FEBS Letters</i> , 2006, 580, 2097-2101.	2.8	28
17	On the Characterization of Intermediates in the Isodesmic Aggregation Pathway of Hen Lysozyme at Alkaline pH. <i>PLoS ONE</i> , 2014, 9, e87256.	2.5	22
18	Fluid Flow and Particle Dynamics Inside an Evaporating Droplet Containing Live Bacteria Displaying Chemotaxis. <i>Langmuir</i> , 2014, 30, 12144-12153.	3.5	22

#	ARTICLE	IF	CITATIONS
19	Protein charge transfer absorption spectra: an intrinsic probe to monitor structural and oligomeric transitions in proteins. <i>Faraday Discussions</i> , 2018, 207, 91-113.	3.2	20
20	Effect of macromolecular crowding on the rate of diffusion-limited enzymatic reaction. <i>Pramana - Journal of Physics</i> , 2008, 71, 359-368.	1.8	17
21	Preventing Disulfide Bond Formation Weakens Non-Covalent Forces among Lysozyme Aggregates. <i>PLoS ONE</i> , 2014, 9, e87012.	2.5	15
22	Weak Intrinsic Luminescence in Monomeric Proteins Arising from Charge Recombination. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2731-2746.	2.6	13
23	Employing the fluorescence anisotropy and quenching kinetics of tryptophan to hunt for residual structures in denatured proteins. <i>Journal of Chemical Sciences</i> , 2007, 119, 141-145.	1.5	12
24	Hydrolytic enzymes conjugated to quantum dots mostly retain whole catalytic activity. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2935-2943.	2.4	12
25	Consequences of Heterogeneous Crowding on an Enzymatic Reaction: A Residence Time Monte Carlo Approach. <i>ACS Omega</i> , 2019, 4, 727-736.	3.5	8
26	Structure and dynamics at N- and C-terminal regions of intrinsically disordered human c-Myc PEST degran reveal a pH-induced transition. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 889-909.	2.6	8
27	A novel approach to segregate and identify functional loop regions in protein structures using their Ramachandran maps. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 900-916.	2.6	7
28	Photocrosslinking between nucleic acids and proteins: general discussion. <i>Faraday Discussions</i> , 2018, 207, 283-306.	3.2	5
29	Osmolytes: Key Players in Regulating Protein Aggregation. , 2017, , 97-119.		3
30	Ordered structure induced in human c-Myc PEST region upon forming a disulphide bonded dimer. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	1.5	3
31	Oligomerisation, Fibrillation and Activity of Hen Lysozyme in Alkaline Medium: A Concentration Dependent Investigation. <i>Biophysical Journal</i> , 2010, 98, 252a.	0.5	2
32	Enhanced solubility, electronic absorption and fluorescence observed for Karanjin in aqueous SDS micelles compared to water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 414, 113289.	3.9	2
33	Role of Charged Amino Acids in Sullyng the Fluorescence of Tryptophan or Conjugated Dansyl Probe in Monomeric Proteins. <i>Biochemistry</i> , 2022, 61, 339-353.	2.5	2
34	Carboxymethylation of Cysteines Impedes Aggregation of Hen Lysozyme in Alkaline pH. <i>Biophysical Journal</i> , 2012, 102, 255a.	0.5	1
35	Charge Transfer Transitions Originating from Charged Amino Acids Account for 300-800 nm UV-Visible Electronic Absorption Spectra in Proteins. <i>Biophysical Journal</i> , 2017, 112, 190a-191a.	0.5	1
36	Light induced charge and energy transport in nucleic acids and proteins: general discussion. <i>Faraday Discussions</i> , 2018, 207, 153-180.	3.2	1

#	ARTICLE	IF	CITATIONS
37	Decrease in Size of Hen Egg white Lysozyme Aggregates with Decrease in Monomer Concentration from Micro to Nanomolar in Alkaline pH. <i>Biophysical Journal</i> , 2011, 100, 538a.	0.5	0
38	MD Simulations Highlight the Contrast in Dynamics of Intrinsically Disordered Proteins When Compared with Folded Proteins. <i>Biophysical Journal</i> , 2011, 100, 229a.	0.5	0
39	Manipulating the Size of Hen Lysozyme Nanoparticles Created by Controlled Self-Assembly. <i>Biophysical Journal</i> , 2012, 102, 206a.	0.5	0
40	Inhibition of Lysozyme Amyloidogenesis by Osmolytes. <i>Biophysical Journal</i> , 2012, 102, 255a-256a.	0.5	0
41	Human Lysozyme Amyloidosis: MD Simulations Reveal Increased Structural Destabilization in Disease causing Mutants Compared to Wildtype. <i>Biophysical Journal</i> , 2013, 104, 387a.	0.5	0
42	MD Simulation Trajectories of Multiple Intrinsically Disordered Proteins Reveal Order to Disorder Transitions that Bear Functional Significance. <i>Biophysical Journal</i> , 2014, 106, 484a.	0.5	0
43	Investigation of Novel Spectroscopic Features in the Near Ultraviolet Region Arising from Non-Aromatic Amino Acids in Peptides and Proteins. <i>Biophysical Journal</i> , 2016, 110, 489a.	0.5	0
44	Bionanophotonics: general discussion. <i>Faraday Discussions</i> , 2018, 207, 491-512.	3.2	0