

# Rajan Lamichhane

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

825  
citations

623734

14  
h-index

610901

24  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1133  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-molecule FRET of protein-nucleic acid and protein-protein complexes: Surface passivation and immobilization. <i>Methods</i> , 2010, 52, 192-200.	3.8	99
2	RNA looping by PTB: Evidence using FRET and NMR spectroscopy for a role in splicing repression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4105-4110.	7.1	96
3	Single-molecule view of basal activity and activation mechanisms of the G protein-coupled receptor $\beta_2$ AR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14254-14259.	7.1	87
4	Neocarzinostatin naphthoate synthase: an unique iterative type I PKS from neocarzinostatin producer <i>Streptomyces carzinostaticus</i> . <i>FEBS Letters</i> , 2004, 566, 201-206.	2.8	80
5	Single-Molecule Förster Resonance Energy Transfer Reveals an Innate Fidelity Checkpoint in DNA Polymerase I. <i>Journal of the American Chemical Society</i> , 2012, 134, 11261-11268.	13.7	69
6	Exploring RNA folding one molecule at a time. <i>Current Opinion in Chemical Biology</i> , 2008, 12, 647-654.	6.1	55
7	FRET Characterization of Complex Conformational Changes in a Large 16S Ribosomal RNA Fragment Site-Specifically Labeled Using Unnatural Base Pairs. <i>ACS Chemical Biology</i> , 2016, 11, 1347-1353.	3.4	44
8	Dynamics of Site Switching in DNA Polymerase. <i>Journal of the American Chemical Society</i> , 2013, 135, 4735-4742.	13.7	42
9	Biased Signaling of the G-Protein-Coupled Receptor $\beta_2$ AR Is Governed by Conformational Exchange Kinetics. <i>Structure</i> , 2020, 28, 371-377.e3.	3.3	36
10	Thermodynamic and Kinetic Analysis of an RNA Kissing Interaction and Its Resolution into an Extended Duplex. <i>Biophysical Journal</i> , 2012, 102, 1097-1107.	0.5	31
11	Laser-Assisted Single-Molecule Refolding (LASR). <i>Biophysical Journal</i> , 2010, 99, 1925-1931.	0.5	25
12	A Survey of DDX21 Activity During Rev/RRE Complex Formation. <i>Journal of Molecular Biology</i> , 2018, 430, 537-553.	4.2	23
13	PIP2 promotes conformation-specific dimerization of the EphA2 membrane region. <i>Journal of Biological Chemistry</i> , 2021, 296, 100149.	3.4	21
14	A DEAD-box protein acts through RNA to promote HIV-1 Rev-RRE assembly. <i>Nucleic Acids Research</i> , 2017, 45, 4632-4641.	14.5	17
15	Slow conformational dynamics of the human A2A adenosine receptor are temporally ordered. <i>Structure</i> , 2022, 30, 329-337.e5.	3.3	17
16	Expression of 2-deoxy-scyllo-inosose synthase (kanA) from kanamycin gene cluster in <i>Streptomyces lividans</i> . <i>Biotechnology Letters</i> , 2005, 27, 465-470.	2.2	14
17	Production of human A2AAR in lipid nanodiscs for 19F-NMR and single-molecule fluorescence spectroscopy. <i>STAR Protocols</i> , 2022, 3, 101535.	1.2	12
18	A DEAD-Box Helicase Mediates an RNA Structural Transition in the HIV-1 Rev Response Element. <i>Journal of Molecular Biology</i> , 2017, 429, 697-714.	4.2	11

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19	Single-molecule view of coordination in a multi-functional DNA polymerase. <i>ELife</i> , 2021, 10, .	6.0	11
20	Dynamic conformational changes in the rhesus TRIM5 $\alpha$ dimer dictate the potency of HIV-1 restriction. <i>Virology</i> , 2017, 500, 161-168.	2.4	10
21	Protein-RNA Dynamics in the Central Junction Control 30S Ribosome Assembly. <i>Journal of Molecular Biology</i> , 2016, 428, 3615-3631.	4.2	9
22	Discrimination between Functional and Non-functional Cellular Gag Complexes involved in HIV-1 Assembly. <i>Journal of Molecular Biology</i> , 2021, 433, 166842.	4.2	8
23	Fluorophore Labeling, Nanodisc Reconstitution and Single-molecule Observation of a G Protein-coupled Receptor. <i>Bio-protocol</i> , 2017, 7, .	0.4	3
24	Elucidating Protein Translocon Dynamics with Single-Molecule Precision. <i>Trends in Cell Biology</i> , 2021, 31, 569-583.	7.9	2
25	RNA Looping By PTB: Evidence Using Fret and NMR Spectroscopy and For a Role in Splicing Repression. <i>Biophysical Journal</i> , 2010, 98, 72a-73a.	0.5	0
26	Protein-RNA Dynamics in the Central Junction Control 30S Ribosome Assembly. <i>Biophysical Journal</i> , 2011, 100, 233a.	0.5	0
27	Oligomeric Assembly of HIV-1 Rev on the Rev Response Element: Role of Cellular Cofactors. <i>Biophysical Journal</i> , 2012, 102, 483a.	0.5	0
28	A Multi-State Mechanism of Nucleotide Selection in DNA Polymerase I Revealed by Single-Molecule FRET. <i>Biophysical Journal</i> , 2012, 102, 281a-282a.	0.5	0
29	Dynamics of Site Switching in DNA Polymerase. <i>Biophysical Journal</i> , 2013, 104, 368a.	0.5	0
30	Role of Dead Box Helicases in HIV-1 Rev Function: a Single-Molecule Approach. <i>Biophysical Journal</i> , 2014, 106, 71a.	0.5	0
31	Conformational Dynamics of a G Protein-Coupled Receptor at the Single-Molecule Level. <i>Biophysical Journal</i> , 2015, 108, 350a.	0.5	0
32	Single-Molecule Conformational Dynamics of E. coli DNA Polymerase I. <i>Biophysical Journal</i> , 2016, 110, 241a.	0.5	0
33	A Dead-Box Protein Acts through RNA to Promote HIV-1 Rev-RRE Assembly. <i>Biophysical Journal</i> , 2017, 112, 72a-73a.	0.5	0
34	Novel variants of engineered water soluble mu opioid receptors with extensive mutations and removal of cysteines. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 1386-1393.	2.6	0
35	Evidence of RNA looping by PTB using Fluorescence Resonance Energy Transfer and NMR spectroscopy. <i>FASEB Journal</i> , 2009, 23, .	0.5	0
36	How Proteins Recognize RNA. <i>Biological and Medical Physics Series</i> , 2019, , 3-21.	0.4	0