

Trushar R Patel

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

3,193
citations

201575

27
h-index

168321

53
g-index

106
all docs

106
docs citations

106
times ranked

5089
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating Japanese encephalitis virus long-range terminal region interactions. <i>Biophysical Journal</i> , 2022, 121, 206a.	0.2	0
2	Investigating flaviviral genomic cyclization. <i>Biophysical Journal</i> , 2022, 121, 311a.	0.2	0
3	G-Quadruplex in hepatitis B virus. <i>Biophysical Journal</i> , 2022, 121, 66a.	0.2	1
4	Targeting Xist with compounds that disrupt RNA structure and X inactivation. <i>Nature</i> , 2022, 604, 160-166.	13.7	57
5	Biophysical characterisation of human LincRNA-p21 sense and antisense Alu inverted repeats. <i>Nucleic Acids Research</i> , 2022, 50, 5881-5898.	6.5	8
6	Human DDX3X Unwinds Japanese Encephalitis and Zika Viral 5' Terminal Regions. <i>International Journal of Molecular Sciences</i> , 2021, 22, 413.	1.8	15
7	Identification and characterization of a G-quadruplex structure in the pre-core promoter region of hepatitis B virus covalently closed circular DNA. <i>Journal of Biological Chemistry</i> , 2021, 296, 100589.	1.6	18
8	Bioinformatic Analysis of Structure and Function of LIM Domains of Human Zyxin Family Proteins. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2647.	1.8	12
9	Molecular mechanism of quorum sensing inhibition in <i>Streptococcus</i> by the phage protein paratox. <i>Journal of Biological Chemistry</i> , 2021, 297, 100992.	1.6	1
10	Human DDX17 Unwinds Rift Valley Fever Virus Non-Coding RNAs. <i>International Journal of Molecular Sciences</i> , 2021, 22, 54.	1.8	20
11	Current approaches for RNA-labelling to identify RNA-binding proteins. <i>Biochemistry and Cell Biology</i> , 2020, 98, 31-41.	0.9	20
12	Asparagine-84, a regulatory allosteric site residue, helps maintain the quaternary structure of <i>Campylobacter jejuni</i> dihydrodipicolinate synthase. <i>Journal of Structural Biology</i> , 2020, 209, 107409.	1.3	4
13	Zinc-finger protein CNBP alters the 3-D structure of lncRNA Braveheart in solution. <i>Nature Communications</i> , 2020, 11, 148.	5.8	53
14	Analytical ultracentrifuge: an ideal tool for characterization of non-coding RNAs. <i>European Biophysics Journal</i> , 2020, 49, 809-818.	1.2	3
15	Molecular characterization of the RNA-protein complex directing α^2/α^1 programmed ribosomal frameshifting during arterivirus replicase expression. <i>Journal of Biological Chemistry</i> , 2020, 295, 17904-17921.	1.6	10
16	Biodefense Implications of New-World Hantaviruses. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 925.	2.0	14
17	Analytical ultracentrifugation: still the gold standard that offers multiple solutions. <i>European Biophysics Journal</i> , 2020, 49, 673-676.	1.2	5
18	Canadian Science Meets Parliament: Building relationships between scientists and policymakers. <i>Science and Public Policy</i> , 2020, 47, 298-298.	1.2	2

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19	Structural and Hydrodynamic Characterization of Dimeric Human Oligoadenylate Synthetase 2. <i>Biophysical Journal</i> , 2020, 118, 2726-2740.	0.2	4
20	Host Transcription Factors in Hepatitis B Virus RNA Synthesis. <i>Viruses</i> , 2020, 12, 160.	1.5	47
21	Biophysical Studies of Non-Coding RNAs. <i>Biophysical Journal</i> , 2020, 118, 222a.	0.2	0
22	Nanoscale Structure Determination of Murray Valley Encephalitis and Powassan Virus Non-Coding RNAs. <i>Viruses</i> , 2020, 12, 190.	1.5	12
23	Canadian Science Meets Parliament: Building relationships between scientists and policymakers. <i>Science and Public Policy</i> , 2020, , .	1.2	1
24	Solution structure and oligomeric state of the E. coli glycerol facilitator. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183191.	1.4	6
25	The biomedical and bioengineering potential of protein nanocompartments. <i>Biotechnology Advances</i> , 2020, 41, 107547.	6.0	25
26	Molecular mechanisms of viral hepatitis induced hepatocellular carcinoma. <i>World Journal of Gastroenterology</i> , 2020, 26, 5759-5783.	1.4	128
27	Experimental determination of second virial coefficients by small-angle X-ray scattering: a problem revisited. <i>European Biophysics Journal</i> , 2019, 48, 781-787.	1.2	0
28	Use of molecular crowding for the detection of protein self-association by size-exclusion chromatography. <i>Analytical Biochemistry</i> , 2019, 584, 113392.	1.1	2
29	Solution Structure of <i>C. elegans</i> UNC-6: A Nematode Parologue of the Axon Guidance Protein Netrin-1. <i>Biophysical Journal</i> , 2019, 116, 2121-2130.	0.2	8
30	Crystal structure of the TreS:Pep2 complex, initiating β -glucan synthesis in the GlgE pathway of mycobacteria. <i>Journal of Biological Chemistry</i> , 2019, 294, 7348-7359.	1.6	8
31	A Cholesterol Analog Induces an Oligomeric Reorganization of VDAC. <i>Biophysical Journal</i> , 2019, 116, 847-859.	0.2	7
32	Towards Obtaining a Nanoscale Structure of Terminal Regions of Japanese Encephalitis Virus Genome. <i>Biophysical Journal</i> , 2019, 116, 354a.	0.2	0
33	Microscale thermophoresis: warming up to a new biomolecular interaction technique. <i>Biochemist</i> , 2019, 41, 8-12.	0.2	13
34	Viral proteins targeting host protein kinase R to evade an innate immune response: a mini review. <i>Biotechnology and Genetic Engineering Reviews</i> , 2018, 34, 33-59.	2.4	34
35	Structure and hydrodynamics of a DNA G-quadruplex with a cytosine bulge. <i>Nucleic Acids Research</i> , 2018, 46, 5319-5331.	6.5	44
36	Interaction studies of a protein and carbohydrate system using an integrated approach: a case study of the miniagrin-heparin system. <i>European Biophysics Journal</i> , 2018, 47, 751-759.	1.2	1

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37	Allowance for radial dilution in evaluating the concentration dependence of sedimentation coefficients for globular proteins. <i>European Biophysics Journal</i> , 2018, 47, 291-295.	1.2	9
38	Comprehensive Analysis of Hepatitis B Virus Promoter Region Mutations. <i>Viruses</i> , 2018, 10, 603.	1.5	10
39	Structural Studies of Macromolecules in Solution using Small Angle X-Ray Scattering. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	4
40	Solution Structures of Wildtype and Deglycosylated Neuropilin 1. <i>Biophysical Journal</i> , 2018, 114, 404a.	0.2	0
41	Analytical ultracentrifugation (AUC): a seminal tool offering multiple solutions. <i>European Biophysics Journal</i> , 2018, 47, 693-696.	1.2	4
42	The role of zyxin in regulation of malignancies. <i>Heliyon</i> , 2018, 4, e00695.	1.4	12
43	DEAD-box helicases: the Yin and Yang roles in viral infections. <i>Biotechnology and Genetic Engineering Reviews</i> , 2018, 34, 3-32.	2.4	34
44	Non-coding RNAs in virology: an RNA genomics approach. <i>Biotechnology and Genetic Engineering Reviews</i> , 2018, 34, 90-106.	2.4	2
45	Studying Biomolecular Interactions: A Hybrid Approach. <i>Biophysical Journal</i> , 2017, 112, 485a.	0.2	0
46	Application of novel analytical ultracentrifuge analysis to solutions of fungal mannans. <i>European Biophysics Journal</i> , 2017, 46, 235-245.	1.2	3
47	Structural studies of RNA-protein complexes: A hybrid approach involving hydrodynamics, scattering, and computational methods. <i>Methods</i> , 2017, 118-119, 146-162.	1.9	39
48	Intrinsic disorder in the partitioning protein KorB persists after co-operative complex formation with operator DNA and KorA. <i>Biochemical Journal</i> , 2017, 474, 3121-3135.	1.7	6
49	Inhibition of glycosylation on a camelid antibody uniquely affects its Fc γ RI binding activity. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 96, 428-439.	1.9	11
50	Nanoscale Assembly of High-Mobility Group AT-Hook 2 Protein with DNA Replication Fork. <i>Biophysical Journal</i> , 2017, 113, 2609-2620.	0.2	16
51	Impact of the structural integrity of the three-way junction of adenovirus VAI RNA on PKR inhibition. <i>PLoS ONE</i> , 2017, 12, e0186849.	1.1	19
52	Maltose-Binding Protein (MBP), a Secretion-Enhancing Tag for Mammalian Protein Expression Systems. <i>PLoS ONE</i> , 2016, 11, e0152386.	1.1	46
53	Structural decoding of netrin-4 reveals a regulatory function towards mature basement membranes. <i>Nature Communications</i> , 2016, 7, 13515.	5.8	74
54	Dynamic light scattering: a practical guide and applications in biomedical sciences. <i>Biophysical Reviews</i> , 2016, 8, 409-427.	1.5	1,132

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55	Regulation of Platelet Derived Growth Factor Signaling by Leukocyte Common Antigen-related (LAR) Protein Tyrosine Phosphatase: A Quantitative Phosphoproteomics Study. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1823-1836.	2.5	10
56	LAR protein tyrosine phosphatase regulates focal adhesions via CDK1. <i>Journal of Cell Science</i> , 2016, 129, 2962-71.	1.2	52
57	Analytical ultracentrifugation: A versatile tool for the characterisation of macromolecular complexes in solution. <i>Methods</i> , 2016, 95, 55-61.	1.9	29
58	Structural Decoding of the Netrin-1/UNC5 Interaction and its Therapeutical Implications in Cancers. <i>Cancer Cell</i> , 2016, 29, 173-185.	7.7	80
59	Biophysical analysis of a lethal laminin alpha-1 mutation reveals altered self-interaction. <i>Matrix Biology</i> , 2016, 49, 93-105.	1.5	8
60	Characterization of the termini of the West Nile virus genome and their interactions with the small isoform of the 2'5'-oligoadenylate synthetase family. <i>Journal of Structural Biology</i> , 2015, 190, 236-249.	1.3	21
61	The $\hat{\gamma}$ -Lactamase Gene Regulator AmpR Is a Tetramer That Recognizes and Binds the d-Ala-d-Ala Motif of Its Repressor UDP-N-acetylmuramic Acid (MurNAc)-pentapeptide. <i>Journal of Biological Chemistry</i> , 2015, 290, 2630-2643.	1.6	77
62	Biophysical Characterization of G-Quadruplex Recognition in the PITX1 mRNA by the Specificity Domain of the Helicase RHAU. <i>PLoS ONE</i> , 2015, 10, e0144510.	1.1	19
63	Conformational Itinerary of Pseudomonas aeruginosa 1,6-Anhydro-N-acetylmuramic Acid Kinase during Its Catalytic Cycle. <i>Journal of Biological Chemistry</i> , 2014, 289, 4504-4514.	1.6	7
64	Molecular dissection of Wnt3a-Frizzled8 interaction reveals essential and modulatory determinants of Wnt signaling activity. <i>BMC Biology</i> , 2014, 12, 44.	1.7	24
65	Solution conformation of adenovirus virus associated RNA-I and its interaction with PKR. <i>Journal of Structural Biology</i> , 2014, 185, 48-57.	1.3	21
66	Structural elucidation of full-length nidogen and the laminin-nidogen complex in solution. <i>Matrix Biology</i> , 2014, 33, 60-67.	1.5	32
67	Mapping of Netrin-1 Binding to its Dependence Receptors. <i>Biophysical Journal</i> , 2014, 106, 478a-479a.	0.2	0
68	Activation of 2'5'-Oligoadenylate Synthetase by Stem Loops at the 5'-End of the West Nile Virus Genome. <i>PLoS ONE</i> , 2014, 9, e92545.	1.1	43
69	C1q-tumour necrosis factor-related protein 8 (<sc>CTRP8</sc>) is a novel interaction partner of relaxin receptor <sc>RXFP1</sc> in human brain cancer cells. <i>Journal of Pathology</i> , 2013, 231, 466-479.	2.1	33
70	Binding of G-quadruplexes to the N-terminal Recognition Domain of the RNA Helicase Associated with AU-rich Element (RHAU). <i>Journal of Biological Chemistry</i> , 2013, 288, 35014-35027.	1.6	53
71	A potential for overestimating the absolute magnitudes of second virial coefficients by small-angle X-ray scattering. <i>Analytical Biochemistry</i> , 2013, 435, 159-165.	1.1	9
72	Recognition of viral RNA stem-loops by the tandem double-stranded RNA binding domains of PKR. <i>Rna</i> , 2013, 19, 333-344.	1.6	27

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73	Determination of a molecular shape for netrin-4 from hydrodynamic and small angle X-ray scattering measurements. <i>Matrix Biology</i> , 2012, 31, 135-140.	1.5	20
74	Solution Conformation of Extracellular Matrix Proteins. <i>Biophysical Journal</i> , 2012, 102, 381a.	0.2	0
75	G4 Quadruplex Recognition in the Human DEAH-Box Helicase RHAU. <i>Biophysical Journal</i> , 2012, 102, 486a.	0.2	0
76	The macromolecular state of A β kinase anchoring protein. <i>Journal of Molecular Recognition</i> , 2012, 25, 11-14.	1.1	1
77	Site Specific Cleavage Mediated by MMPs Regulates Function of Agrin. <i>PLoS ONE</i> , 2012, 7, e43669.	1.1	22
78	Evidence for Self-Association of a Miniaturized Version of Agrin from Hydrodynamic and Small-Angle X-ray Scattering Measurements. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11286-11293.	1.2	5
79	Examination of the Discrepancy between Size Estimates for Ovalbumin from Small-Angle X-ray Scattering and Other Physicochemical Measurements. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10725-10729.	1.2	10
80	T β -shaped arrangement of the recombinant agrin G3 α IgG Fc protein. <i>Protein Science</i> , 2011, 20, 931-940.	3.1	16
81	Reassessment of the size of the supermolecular state of Dishevelled β . <i>Journal of Molecular Recognition</i> , 2011, 24, 843-846.	1.1	4
82	Absence of a catalytic water confers resistance to the neurotoxin gabaculine. <i>FASEB Journal</i> , 2010, 24, 404-414.	0.2	8
83	Nano-structure of the laminin β 3-1 short arm reveals an extended and curved multidomain assembly. <i>Matrix Biology</i> , 2010, 29, 565-572.	1.5	34
84	Vimentin Coil 1A β A Molecular Switch Involved in the Initiation of Filament Elongation. <i>Journal of Molecular Biology</i> , 2009, 390, 245-261.	2.0	90
85	Molecular Flexibility of Methylcelluloses of Differing Degree of Substitution by Combined Sedimentation and Viscosity Analysis. <i>Macromolecular Bioscience</i> , 2008, 8, 1108-1115.	2.1	33
86	Global hydrodynamic analysis of the molecular flexibility of galactomannans. <i>Carbohydrate Polymers</i> , 2008, 72, 356-360.	5.1	44
87	Global conformation analysis of irradiated xyloglucans. <i>Carbohydrate Polymers</i> , 2008, 74, 845-851.	5.1	49
88	Pectic polysaccharides from <i>Biophytum petersianum</i> Klotzsch, and their activation of macrophages and dendritic cells. <i>Glycobiology</i> , 2008, 18, 1074-1084.	1.3	58
89	Immunological and Structural Properties of a Pectic Polymer from <i>Glinus oppositifolius</i> . <i>Glycobiology</i> , 2007, 17, 1299-1310.	1.3	77
90	Weak Self-Association in a Carbohydrate System. <i>Biophysical Journal</i> , 2007, 93, 741-749.	0.2	50

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91	Pressure Cell Assisted Solution Characterization of Galactomannans. 3. Application of Analytical Ultracentrifugation Techniques. <i>Biomacromolecules</i> , 2006, 7, 3513-3520.	2.6	27
92	Structures and Structure-Activity Relationships of Three Mitogenic and Complement Fixing Pectic Arabinogalactans from the Malian Antiulcer Plants <i>Cochlospermum tinctorium</i> A. Rich and <i>Vernonia kotschyana</i> Sch. Bip. ex Walp. <i>Biomacromolecules</i> , 2006, 7, 71-79.	2.6	50
93	Resonance Energy Transfer between Green Fluorescent Protein Variants: Complexities Revealed with Myosin Fusion Proteins. <i>Biochemistry</i> , 2006, 45, 10482-10491.	1.2	21
94	Damaged starch characterisation by ultracentrifugation. <i>Carbohydrate Research</i> , 2006, 341, 130-137.	1.1	20