

# Umesh Kalathiya

## List of Publications by Citations

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**Version:** 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

24  
papers

241  
citations

8  
h-index

15  
g-index

32  
ext. papers

372  
ext. citations

4.7  
avg, IF

3.71  
L-index

#	Paper	IF	Citations
24	The emerging landscape of single-molecule protein sequencing technologies. <i>Nature Methods</i> , <b>2021</b> , 18, 604-617	21.6	60
23	Highly Conserved Homotrimer Cavity Formed by the SARS-CoV-2 Spike Glycoprotein: A Novel Binding Site. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	55
22	Nonsense-Mediated mRNA Decay: Pathologies and the Potential for Novel Therapeutics. <i>Cancers</i> , <b>2020</b> , 12,	6.6	18
21	Structure-based design and evaluation of novel N-phenyl-1H-indol-2-amine derivatives for fat mass and obesity-associated (FTO) protein inhibition. <i>Computational Biology and Chemistry</i> , <b>2016</b> , 64, 414-425	3.6	16
20	Structural, functional, and stability change predictions in human telomerase upon specific point mutations. <i>Scientific Reports</i> , <b>2019</b> , 9, 8707	4.9	15
19	Multivalent Display of SARS-CoV-2 Spike (RBD Domain) of COVID-19 to Nanomaterial, Protein Ferritin Nanocages. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	11
18	Structural and dynamic changes adopted by EmrE, multidrug transporter protein--Studies by molecular dynamics simulation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2015</b> , 1848, 2065-74	3.8	10
17	Molecular Modeling and Evaluation of Novel Dibenzopyrrole Derivatives as Telomerase Inhibitors and Potential Drug for Cancer Therapy. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2014</b> , 11, 1196-207	3	8
16	Functional Interfaces, Biological Pathways, and Regulations of Interferon-Related DNA Damage Resistance Signature (IRDS) Genes. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	6
15	Recognition Dynamics of Cancer Mutations on the ERp57-Tapasin Interface. <i>Cancers</i> , <b>2020</b> , 12,	6.6	6
14	Identification of 1H-indene-(1,3,5,6)-tetrol derivatives as potent pancreatic lipase inhibitors using molecular docking and molecular dynamics approach. <i>Biotechnology and Applied Biochemistry</i> , <b>2016</b> , 63, 765-778	2.8	5
13	Insights into the Effects of Cancer Associated Mutations at the UPF2 and ATP-Binding Sites of NMD Master Regulator: UPF1. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	5
12	Drug repositioning against COVID-19: a first line treatment. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 1-15	3.6	4
11	Molecular basis and quantitative assessment of TRF1 and TRF2 protein interactions with TIN2 and Apollo peptides. <i>European Biophysics Journal</i> , <b>2017</b> , 46, 171-187	1.9	3
10	Molecular Determinants and Specificity of mRNA with Alternatively-Spliced UPF1 Isoforms, Influenced by an Insertion in the Regulatory Loop. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
9	The structurally similar TRFH domain of TRF1 and TRF2 dimers shows distinct behaviour towards TIN2. <i>Archives of Biochemistry and Biophysics</i> , <b>2018</b> , 642, 52-62	4.1	2
8	MOLECULAR DOCKING STUDIES TOWARDS DEVELOPMENT OF NOVEL GLY-PHE ANALOGS FOR POTENTIAL INHIBITION OF CATHEPSIN C (DIPEPTIDYL PEPTIDASE I). <i>International Journal for Computational Biology</i> , <b>2014</b> , 3, 3		2

7	Viruses, cancer and non-self recognition. <i>Open Biology</i> , <b>2021</b> , 11, 200348	7	2
6	Comparative molecular dynamics study of dimeric and monomeric forms of HIV-1 protease in ligand bound and unbound state. <i>General Physiology and Biophysics</i> , <b>2017</b> , 36, 141-154	2.1	1
5	Interfaces with Structure Dynamics of the Workhorses from Cells Revealed through Cross-Linking Mass Spectrometry (CLMS). <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	1
4	Structural determinants of peptide-dependent TAP1-TAP2 transit passage targeted by viral proteins and altered by cancer-associated mutations. <i>Computational and Structural Biotechnology Journal</i> , <b>2021</b> , 19, 5072-5091	6.8	1
3	Extracting functional groups of ALLINI to design derivatives of FDA-approved drugs: Inhibition of HIV-1 integrase. <i>Biotechnology and Applied Biochemistry</i> , <b>2018</b> , 65, 594-607	2.8	
2	Molecular basis and potential activity of HIV-1 reverse transcriptase toward trimethylamine-based compounds. <i>Biotechnology and Applied Biochemistry</i> , <b>2017</b> , 64, 810-826	2.8	
1	Self-derived peptides from the SARS-CoV-2 spike glycoprotein disrupting shaping and stability of the homotrimer unit. <i>Biomedicine and Pharmacotherapy</i> , <b>2022</b> , 151, 113190	7.5	