

# Ayaluru Murali

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/672957/publications.pdf>

Version: 2024-02-01

30  
papers

1,843  
citations

394421

19  
h-index

477307

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

2471  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Oligomeric Signaling Platform Formed by the Toll-like Receptor Signal Transducers MyD88 and IRAK-4. <i>Journal of Biological Chemistry</i> , 2009, 284, 25404-25411.	3.4	323
2	Core-controlled polymorphism in virus-like particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1354-1359.	7.1	264
3	Quantum Dot Encapsulation in Viral Capsids. <i>Nano Letters</i> , 2006, 6, 1993-1999.	9.1	202
4	Role of Surface Charge Density in Nanoparticle-Templated Assembly of Bromovirus Protein Cages. <i>ACS Nano</i> , 2010, 4, 3853-3860.	14.6	113
5	RNA-binding proteins that inhibit RNA virus infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3129-3134.	7.1	97
6	A Distance Ruler for RNA Using EPR and Site-Directed Spin Labeling. <i>Chemistry and Biology</i> , 2004, 11, 939-948.	6.0	83
7	Attenuation of quorum sensing controlled virulence factors and biofilm formation in <i>Pseudomonas aeruginosa</i> by pentacyclic triterpenes, betulin and betulinic acid. <i>Microbial Pathogenesis</i> , 2018, 118, 48-60.	2.9	77
8	Structure and Function of LGP2, a DEX(D/H) Helicase That Regulates the Innate Immunity Response. <i>Journal of Biological Chemistry</i> , 2008, 283, 15825-15833.	3.4	76
9	Structural Insight into the Mechanism of Activation of the Toll Receptor by the Dimeric Ligand SpÄtzle. <i>Journal of Biological Chemistry</i> , 2008, 283, 14629-14635.	3.4	67
10	Cinnamic acid attenuates quorum sensing associated virulence factors and biofilm formation in <i>Pseudomonas aeruginosa</i> PAO1. <i>Biotechnology Letters</i> , 2018, 40, 1087-1100.	2.2	59
11	Separate Metal Requirements for Loop Interactions and Catalysis in the Extended Hammerhead Ribozyme. <i>Journal of the American Chemical Society</i> , 2005, 127, 14134-14135.	13.7	54
12	Agonist and Antagonist Recognition by RIG-I, a Cytoplasmic Innate Immunity Receptor. <i>Journal of Biological Chemistry</i> , 2009, 284, 1155-1165.	3.4	51
13	Regulation of <i>De Novo</i> -Initiated RNA Synthesis in Hepatitis C Virus RNA-Dependent RNA Polymerase by Intermolecular Interactions. <i>Journal of Virology</i> , 2010, 84, 5923-5935.	3.4	47
14	Anti-quorum sensing and anti-biofilm activity of 5-hydroxymethylfurfural against <i>Pseudomonas aeruginosa</i> PAO1: Insights from in vitro, in vivo and in silico studies. <i>Microbiological Research</i> , 2019, 226, 19-26.	5.3	41
15	The highly efficient T7 RNA polymerase: A wonder macromolecule in biological realm. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 49-56.	7.5	40
16	The Arabidopsis Stress Responsive Gene Database. <i>International Journal of Plant Genomics</i> , 2013, 2013, 1-3.	2.2	37
17	Interaction Analysis of T7 RNA Polymerase with Heparin and Its Low Molecular Weight Derivatives – An in Silico Approach. <i>Bioinformatics and Biology Insights</i> , 2016, 10, BBI.S40427.	2.0	34
18	Effects of Amino-Acid Substitutions in the Brome mosaic virus Capsid Protein on RNA Encapsidation. <i>Molecular Plant-Microbe Interactions</i> , 2010, 23, 1433-1447.	2.6	29

#	ARTICLE	IF	CITATIONS
19	A computational assessment of pH-dependent differential interaction of T7 lysozyme with T7 RNA polymerase. <i>BMC Structural Biology</i> , 2018, 17, 7.	2.3	28
20	2,4-Di-Tert-Butylphenol Isolated From an Endophytic Fungus, <i>Daldinia eschscholtzii</i> , Reduces Virulence and Quorum Sensing in <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 1668.	3.5	25
21	Studies on catalytic functionality of V2O5/Nb2O5 catalysts. <i>Journal of Molecular Catalysis A</i> , 2004, 216, 139-146.	4.8	24
22	Structure and Stoichiometry of Template-Directed Recombinant HIV-1 Gag Particles. <i>Journal of Molecular Biology</i> , 2011, 410, 667-680.	4.2	19
23	Structural Characterization and Study of Adsorbate Interactions with Cu(II) Ions in SBA-15 Materials by Electron Spin Resonance and Electron Spin Echo Modulation Spectroscopies. <i>Journal of Physical Chemistry B</i> , 2002, 106, 6913-6920.	2.6	15
24	An in-silico glimpse into the pH dependent structural changes of T7 RNA polymerase: a protein with simplicity. <i>Scientific Reports</i> , 2017, 7, 6290.	3.3	14
25	Molecular evaluation of quorum quenching potential of vanillic acid against <i>Yersinia enterocolitica</i> through transcriptomic and in silico analysis. <i>Journal of Medical Microbiology</i> , 2020, 69, 1319-1331.	1.8	10
26	De Novo Design and Spectroscopic Characterization of a Dinucleating Copper-Binding Pentadecapeptide. <i>Inorganic Chemistry</i> , 2006, 45, 472-474.	4.0	7
27	Modeling of alcohol oxidase enzyme of <i>Candida boidinii</i> and in silico analysis of competitive binding of proton ionophores and FAD with enzyme. <i>Molecular BioSystems</i> , 2017, 13, 1754-1769.	2.9	4
28	Three dimensional electron microscopy and in silico tools for macromolecular structure determination. <i>EXCLI Journal</i> , 2013, 12, 335-46.	0.7	2
29	Insight into virus encapsulation mechanism through in silico interaction study between coat protein and RNA operator loops of <i>Sesbania mosaic virus</i> . <i>Molecular BioSystems</i> , 2016, 12, 1996-2009.	2.9	1
30	Electron Microscopy and Single Particle Analysis for Solving Three-Dimensional Structures of Macromolecules. , 2021, , 141-154.		0