Ayaluru Murali

List of Publications by Year
in descending order

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30	1,843	394421 19	477307 29
papers	citations	h-index	g-index

30	30	30	2471
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electron Microscopy and Single Particle Analysis for Solving Three-Dimensional Structures of Macromolecules. , 2021, , 141-154.		0
2	2,4-Di-Tert-Butylphenol Isolated From an Endophytic Fungus, Daldinia eschscholtzii, Reduces Virulence and Quorum Sensing in Pseudomonas aeruginosa. Frontiers in Microbiology, 2020, 11, 1668.	3.5	25
3	Molecular evaluation of quorum quenching potential of vanillic acid against Yersinia enterocolitica through transcriptomic and in silico analysis. Journal of Medical Microbiology, 2020, 69, 1319-1331.	1.8	10
4	Anti-quorum sensing and anti-biofilm activity of 5-hydroxymethylfurfural against Pseudomonas aeruginosa PAO1: Insights from in vitro, in vivo and in silico studies. Microbiological Research, 2019, 226, 19-26.	5.3	41
5	Attenuation of quorum sensing controlled virulence factors and biofilm formation in Pseudomonas aeruginosa by pentacyclic triterpenes, betulin and betulinic acid. Microbial Pathogenesis, 2018, 118, 48-60.	2.9	77
6	Cinnamic acid attenuates quorum sensing associated virulence factors and biofilm formation in Pseudomonas aeruginosa PAO1. Biotechnology Letters, 2018, 40, 1087-1100.	2.2	59
7	A computational assessment of pH-dependent differential interaction of T7 lysozyme with T7 RNA polymerase. BMC Structural Biology, 2018, 17, 7.	2.3	28
8	The highly efficient T7 RNA polymerase: A wonder macromolecule in biological realm. International Journal of Biological Macromolecules, 2018, 118, 49-56.	7.5	40
9	Modeling of alcohol oxidase enzyme of Candida boidinii and in silico analysis of competitive binding of proton ionophores and FAD with enzyme. Molecular BioSystems, 2017, 13, 1754-1769.	2.9	4
10	An in-silico glimpse into the pH dependent structural changes of T7 RNA polymerase: a protein with simplicity. Scientific Reports, 2017, 7, 6290.	3.3	14
11	Insight into virus encapsulation mechanism through in silico interaction study between coat protein and RNA operator loops of Sesbania mosaic virus. Molecular BioSystems, 2016, 12, 1996-2009.	2.9	1
12	Interaction Analysis of T7 RNA Polymerase with Heparin and Its Low Molecular Weight Derivatives â€“ An in Silico Approach. Bioinformatics and Biology Insights, 2016, 10, BBI.S40427.	2.0	34
13	The Arabidopsis Stress Responsive Gene Database. International Journal of Plant Genomics, 2013, 2013, 1-3.	2.2	37
14	Three dimensional electron microscopy and in silico tools for macromolecular structure determination. EXCLI Journal, 2013, 12, 335-46.	0.7	2
15	Structure and Stoichiometry of Template-Directed Recombinant HIV-1 Gag Particles. Journal of Molecular Biology, 2011, 410, 667-680.	4.2	19
16	Regulation of De Novo -Initiated RNA Synthesis in Hepatitis C Virus RNA-Dependent RNA Polymerase by Intermolecular Interactions. Journal of Virology, 2010, 84, 5923-5935.	3.4	47
17	Effects of Amino-Acid Substitutions in the Brome mosaic virus Capsid Protein on RNA Encapsidation. Molecular Plant-Microbe Interactions, 2010, 23, 1433-1447.	2.6	29
18	Role of Surface Charge Density in Nanoparticle-Templated Assembly of Bromovirus Protein Cages. ACS Nano, 2010, 4, 3853-3860.	14.6	113

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19	Agonist and Antagonist Recognition by RIG-I, a Cytoplasmic Innate Immunity Receptor. Journal of Biological Chemistry, 2009, 284, 1155-1165.	3.4	51
20	An Oligomeric Signaling Platform Formed by the Toll-like Receptor Signal Transducers MyD88 and IRAK-4. Journal of Biological Chemistry, 2009, 284, 25404-25411.	3.4	323
21	Structure and Function of LGP2, a DEX(D/H) Helicase That Regulates the Innate Immunity Response. Journal of Biological Chemistry, 2008, 283, 15825-15833.	3.4	76
22	Structural Insight into the Mechanism of Activation of the Toll Receptor by the Dimeric Ligand SpÃtzle. Journal of Biological Chemistry, 2008, 283, 14629-14635.	3.4	67
23	RNA-binding proteins that inhibit RNA virus infection. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3129-3134.	7.1	97
24	Core-controlled polymorphism in virus-like particles. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1354-1359.	7.1	264
25	De Novo Design and Spectroscopic Characterization of a Dinucleating Copper-Binding Pentadecapeptide. Inorganic Chemistry, 2006, 45, 472-474.	4.0	7
26	Quantum Dot Encapsulation in Viral Capsids. Nano Letters, 2006, 6, 1993-1999.	9.1	202
27	Separate Metal Requirements for Loop Interactions and Catalysis in the Extended Hammerhead Ribozyme. Journal of the American Chemical Society, 2005, 127, 14134-14135.	13.7	54
28	Studies on catalytic functionality of V2O5/Nb2O5 catalysts. Journal of Molecular Catalysis A, 2004, 216, 139-146.	4.8	24
29	A Distance Ruler for RNA Using EPR and Site-Directed Spin Labeling. Chemistry and Biology, 2004, 11, 939-948.	6.0	83
30	Structural Characterization and Study of Adsorbate Interactions with Cu(II) Ions in SBA-15 Materials by Electron Spin Resonance and Electron Spinâ^'Echo Modulation Spectroscopies. Journal of Physical Chemistry B, 2002, 106, 6913-6920.	2.6	15