Amitesh Anand

List of Publications by Year
in descending order

18 papers	650 citations	840776 11 h-index	888059 17 g-index
21 all docs	21 docs citations	21 times ranked	996 citing authors

#	Article	IF	Citations
1	Machine learning and structural analysis of Mycobacterium tuberculosis pan-genome identifies genetic signatures of antibiotic resistance. Nature Communications, 2018, 9, 4306.	12.8	126
2	Cellular responses to reactive oxygen species are predicted from molecular mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14368-14373.	7.1	79
3	Revealing 29 sets of independently modulated genes in <i>Staphylococcus aureus</i>, their regulators, and role in key physiological response. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17228-17239.	7.1	60
4	Repurposing of a drug scaffold: Identification of novel sila analogues of rimonabant as potent antitubercular agents. European Journal of Medicinal Chemistry, 2016, 122, 723-730.	5.5	59
5	Adaptive evolution reveals a tradeoff between growth rate and oxidative stress during naphthoquinone-based aerobic respiration. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25287-25292.	7.1	56
6	Polyketide Quinones Are Alternate Intermediate Electron Carriers during Mycobacterial Respiration in Oxygen-Deficient Niches. Molecular Cell, 2015, 60, 637-650.	9.7	53
7	OxyR Is a Convergent Target for Mutations Acquired during Adaptation to Oxidative Stress-Prone Metabolic States. Molecular Biology and Evolution, 2020, 37, 660-667.	8.9	52
8	Metabolic and genetic basis for auxotrophies in Gram-negative species. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6264-6273.	7.1	39
9	Insight into the Role of Physicochemical Parameters in a Novel Series of Amphipathic Peptides for Efficient DNA Delivery. Molecular Pharmaceutics, 2013, 10, 2588-2600.	4.6	21
10	Pseudogene repair driven by selection pressure applied in experimental evolution. Nature Microbiology, 2019, 4, 386-389.	13.3	21
11	Environmental conditions dictate differential evolution of vancomycin resistance in Staphylococcus aureus. Communications Biology, 2021, 4, 793.	4.4	18
12	Bacterial fitness landscapes stratify based on proteome allocation associated with discrete aero-types. PLoS Computational Biology, 2021, 17, e1008596.	3.2	14
13	Restoration of fitness lost due to dysregulation of the pyruvate dehydrogenase complex is triggered by ribosomal binding site modifications. Cell Reports, 2021, 35, 108961.	6.4	13
14	Machine Learning of Bacterial Transcriptomes Reveals Responses Underlying Differential Antibiotic Susceptibility. MSphere, 2021, 6, e0044321.	2.9	12
15	Shape and size engineered cellulosic nanomaterials as broad spectrum anti-microbial compounds. International Journal of Biological Macromolecules, 2016, 87, 460-465.	7.5	9
16	Laboratory evolution of synthetic electron transport system variants reveals a larger metabolic respiratory system and its plasticity. Nature Communications, 2022, 13, .	12.8	8
17	Antimicrobial Efficacy of Synthetic Pyranochromenones and (Coumarinyloxy)acetamides. Indian Journal of Microbiology, 2017, 57, 499-502.	2.7	1
18	RNA and bacterial infection. , 2020, , 307-326.		0