Roby P Bhattacharyya

List of Publications by Year
in descending order

43	5,451	304743 22	265206 42
papers	citations	h-index	g-index

54	54	54	9011
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nucleic acid detection with CRISPR-Cas13a/C2c2. Science, 2017, 356, 438-442.	12.6	2,275
2	Domains, Motifs, and Scaffolds: The Role of Modular Interactions in the Evolution and Wiring of Cell Signaling Circuits. Annual Review of Biochemistry, 2006, 75, 655-680.	11.1	411
3	The Structure and Function of Proline Recognition Domains. Science Signaling, 2003, 2003, re8-re8.	3.6	282
4	The Ste5 Scaffold Allosterically Modulates Signaling Output of the Yeast Mating Pathway. Science, 2006, 311, 822-826.	12.6	266
5	An immune-cell signature of bacterial sepsis. Nature Medicine, 2020, 26, 333-340.	30.7	261
6	Simultaneous generation of many RNA-seq libraries in a single reaction. Nature Methods, 2015, 12, 323-325.	19.0	256
7	Longitudinal proteomic analysis of severe COVID-19 reveals survival-associated signatures, tissue-specific cell death, and cell-cell interactions. Cell Reports Medicine, 2021, 2, 100287.	6.5	183
8	The Role of Docking Interactions in Mediating Signaling Input, Output, and Discrimination in the Yeast MAPK Network. Molecular Cell, 2005, 20, 951-962.	9.7	145
9	Remdesivir in Patients with Acute or Chronic Kidney Disease and COVID-19. Journal of the American Society of Nephrology: JASN, 2020, 31, 1384-1386.	6.1	142
10	Rewiring cell signaling: the logic and plasticity of eukaryotic protein circuitry. Current Opinion in Structural Biology, 2004, 14, 690-699.	5.7	127
11	Challenges in Inferring Intrinsic Severity of the SARS-CoV-2 Omicron Variant. New England Journal of Medicine, 2022, 386, e14.	27.0	124
12	Direct detection and drug-resistance profiling of bacteremias using inertial microfluidics. Lab on A Chip, 2015, 15, 2297-2307.	6.0	119
13	Sho1 and Pbs2 Act as Coscaffolds Linking Components in the Yeast High Osmolarity MAP Kinase Pathway. Molecular Cell, 2004, 14, 825-832.	9.7	94
14	Simultaneous detection of genotype and phenotype enables rapid and accurate antibiotic susceptibility determination. Nature Medicine, 2019, 25, 1858-1864.	30.7	85
15	High-throughput automated microfluidic sample preparation for accurate microbial genomics. Nature Communications, 2017, 8, 13919.	12.8	81
16	Myocyte Specific Upregulation of ACE2 in Cardiovascular Disease: Implications for SARS-CoV-2 Mediated Myocarditis. Circulation, 2020, 142, 708-710.	1.6	73
17	Viscosity Dependence of the Folding Kinetics of a Dimeric and Monomeric Coiled Coilâ€. Biochemistry, 1999, 38, 2601-2609.	2.5	65
18	Plasma from patients with bacterial sepsis or severe COVID-19 induces suppressive myeloid cell production from hematopoietic progenitors in vitro. Science Translational Medicine, 2021, 13, .	12.4	64

#	Article	IF	Citations
19	Mechanisms of Î²-lactam killing and resistance in the context of Mycobacterium tuberculosis. Journal of Antibiotics, 2014, 67, 645-654.	2.0	61
20	Harnessing CRISPR Effectors for Infectious Disease Diagnostics. ACS Infectious Diseases, 2018, 4, 1278-1282.	3.8	58
21	An Educational and Administrative Intervention to Promote Rational Laboratory Test Ordering on an Academic General Medicine Service. American Journal of Medicine, 2017, 130, 47-53.	1.5	27
22	Hybridization-based capture of pathogen mRNA enables paired host-pathogen transcriptional analysis. Scientific Reports, 2019, 9, 19244.	3.3	27
23	Impact of Species Diversity on the Design of RNA-Based Diagnostics for Antibiotic Resistance in Neisseria gonorrhoeae. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	22
24	COVID-19 Survival and its impact on chronic kidney disease. Translational Research, 2022, 241, 70-82.	5.0	22
25	Remdesivir in Patients With Estimated GFRÂ<30 ml/min per 1.73 m2 or on Renal Replacement Therapy. Kidney International Reports, 2021, 6, 835-838.	0.8	20
26	Detection of the Omicron Variant Virus With the Abbott BinaxNow SARS-CoV-2 Rapid Antigen Assay. Open Forum Infectious Diseases, 2022, 9, ofac022.	0.9	20
27	Genetic determinants facilitating the evolution of resistance to carbapenem antibiotics. ELife, 2021, 10, .	6.0	15
28	Inter-species geographic signatures for tracing horizontal gene transfer and long-term persistence of carbapenem resistance. Genome Medicine, 2022, 14, 37.	8.2	15
29	Multiplexed detection of bacterial nucleic acids using Cas13 in droplet microarrays. , 2022, 1, pgac021.		15
30	Harnessing the Potential of Multiomics Studies for Precision Medicine in Infectious Disease. Open Forum Infectious Diseases, 2021, 8, ofab483.	0.9	13
31	Rapid identification and phylogenetic classification of diverse bacterial pathogens in a multiplexed hybridization assay targeting ribosomal RNA. Scientific Reports, 2019, 9, 4516.	3.3	11
32	Wisdom of the crowds: A suggested polygenic plan for small-RNA-mediated regulation in bacteria. IScience, 2021, 24, 103096.	4.1	7
33	Rapid Phenotypic Antibiotic Susceptibility Testing Through RNA Detection. Open Forum Infectious Diseases, 2017, 4, S33-S33.	0.9	6
34	Phase-3 Randomized Controlled Trials on Exclusion of Participants With Kidney Disease in COVID-19. Kidney International Reports, 2021, 6, 196-199.	0.8	5
35	A 52-year-old Cuban Immigrant with Weight Loss, Dyspnea, and Fever. Clinical Infectious Diseases, 2011, 52, 368-368.	5.8	3
36	Case 4-2016. New England Journal of Medicine, 2016, 374, 573-581.	27.0	3

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37	Cross-sectional assessment of SARS-CoV-2 viral load by symptom status in Massachusetts congregate living facilities. Journal of Infectious Diseases, 2021, , .	4.0	3
38	Case 30-2017. New England Journal of Medicine, 2017, 377, 1274-1282.	27.0	2
39	Preventing Infectious Complications of Immunomodulation in COVID-19 in Foreign-Born Patients. Journal of Immigrant and Minority Health, 2021, 23, 1343-1347.	1.6	2
40	1830. Single-cell Transcriptional Profiling Reveals an Immune Cell State Signature of Bacterial Sepsis. Open Forum Infectious Diseases, 2019, 6, S42-S42.	0.9	1
41	Core Antibiotic-Induced Transcriptional Signatures Reflect Susceptibility to All Members of an Antibiotic Class. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	1
42	738. A Novel Molecular Diagnostic Assay for Identification of Fungal Pathogens. Open Forum Infectious Diseases, 2020, 7, S418-S419.	0.9	1
43	654. Core Antibiotic-Induced Transcriptional Signatures Reflect Susceptibility to All Members of an Antibiotic Class. Open Forum Infectious Diseases, 2020, 7, S384-S384.	0.9	0