

# Suprabhat Mukherjee

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

2,268  
citations

304743  
22  
h-index

243625  
44  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2605  
citing authors

#	ARTICLE	IF	CITATIONS
1	In silico studies on the comparative characterization of the interactions of SARS-CoV-2 spike glycoprotein with ACE2 receptor homologs and human TLRs. Journal of Medical Virology, 2020, 92, 2105-2113.	5.0	354
2	TLR2 and TLR4 mediated host immune responses in major infectious diseases: a review. Brazilian Journal of Infectious Diseases, 2016, 20, 193-204.	0.6	315
3	Toll-like receptor polymorphism in host immune response to infectious diseases: A review. Scandinavian Journal of Immunology, 2019, 90, e12771.	2.7	146
4	Potential use of polyphenol oxidases (PPO) in the bioremediation of phenolic contaminants containing industrial wastewater. Reviews in Environmental Science and Biotechnology, 2013, 12, 61-73.	8.1	116
5	Targeting human TLRs to combat COVID-19: A solution?. Journal of Medical Virology, 2021, 93, 615-617.	5.0	91
6	Vermicomposting of Tea Factory Coal Ash: Metal accumulation and metallothionein response in Eisenia fetida (Savigny) and Lampito mauritii (Kinberg). Bioresource Technology, 2014, 166, 96-102.	9.6	80
7	Gut microbes as future therapeutics in treating inflammatory and infectious diseases: Lessons from recent findings. Journal of Nutritional Biochemistry, 2018, 61, 111-128.	4.2	66
8	In silico analyses on the comparative sensing of SARS-CoV-2 mRNA by the intracellular TLRs of humans. Journal of Medical Virology, 2021, 93, 2476-2486.	5.0	65
9	Antifilarial effects of polyphenol rich ethanolic extract from the leaves of Azadirachta indica through molecular and biochemical approaches describing reactive oxygen species (ROS) mediated apoptosis of Setaria cervi. Experimental Parasitology, 2014, 136, 41-58.	1.2	47
10	Exploring the binding efficacy of ivermectin against the key proteins of SARS-CoV-2 pathogenesis: an in silico approach. Future Virology, 2021, 16, 277-291.	1.8	45
11	A Novel Ligand of Toll-like Receptor 4 From the Sheath of Wuchereria bancrofti Microfilaria Induces Proinflammatory Response in Macrophages. Journal of Infectious Diseases, 2017, 215, 954-965.	4.0	39
12	Design and green synthesis of polymer inspired nanoparticles for the evaluation of their antimicrobial and antifilarial efficiency. RSC Advances, 2014, 4, 34487.	3.6	37
13	Graphene oxide dispersed supramolecular hydrogel capped benign green silver nanoparticles for anticancer, antimicrobial, cell attachment and intracellular imaging applications. Journal of Molecular Liquids, 2019, 282, 1-12.	4.9	35
14	Phenolics and Terpenoids; the Promising New Search for Anthelmintics: A Critical Review. Mini-Reviews in Medicinal Chemistry, 2016, 16, 1415-1441.	2.4	34
15	Wuchereria bancrofti filaria activates human dendritic cells and polarizes T helper 1 and regulatory T cells via toll-like receptor 4. Communications Biology, 2019, 2, 169.	4.4	31
16	Toll-like receptor in COVID-19: friend or foe?. Future Virology, 2022, 17, 415-417.	1.8	31
17	Chitosan biopolymer functionalized gold nanoparticles with controlled cytotoxicity and improved antifilarial efficacy. Advanced Composites and Hybrid Materials, 2018, 1, 577-590.	21.1	30
18	Optimization of physicochemical parameters for phenol biodegradation by Candida tropicalis using PHB5 using Taguchi Methodology. Desalination and Water Treatment, 2013, 51, 6846-6862.	1.0	29

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19	An approach towards optimization of the extraction of polyphenolic antioxidants from ginger ( <i>Zingiber officinale</i> ). Journal of Food Science and Technology, 2014, 51, 3301-3308.	2.8	29
20	Antifilarial effect of ursolic acid from <i>Nyctanthes arborescens</i> : Molecular and biochemical evidences. Parasitology International, 2014, 63, 717-728.	1.3	27
21	Synthesis of smart graphene quantum dots: A benign biomaterial for prominent intracellular imaging and improvement of drug efficacy. Applied Surface Science, 2019, 495, 143562.	6.1	27
22	A supramolecular hydrogel for generation of a benign DNA-hydrogel. RSC Advances, 2015, 5, 105961-105968.	3.6	26
23	Quinolone-fused cyclic sulfonamide as a novel benign antifilarial agent. Scientific Reports, 2018, 8, 12073.	3.3	26
24	In Silico Analyses on the Comparative Potential of Therapeutic Human Monoclonal Antibodies Against Newly Emerged SARS-CoV-2 Variants Bearing Mutant Spike Protein. Frontiers in Immunology, 2021, 12, 782506.	4.8	24
25	Surface proteins of <i>Setaria cervi</i> induce inflammation in macrophage through Toll-like receptor 4 (TLR4)-mediated signalling pathway. Parasite Immunology, 2017, 39, e12389.	1.5	23
26	Aryl quinolinyl hydrazone derivatives as anti-inflammatory agents that inhibit TLR4 activation in the macrophages. European Journal of Pharmaceutical Sciences, 2019, 134, 102-115.	4.0	22
27	Exploring the Differential Expression and Prognostic Significance of the COL11A1 Gene in Human Colorectal Carcinoma: An Integrated Bioinformatics Approach. Frontiers in Genetics, 2021, 12, 608313.	2.3	22
28	Isolation and Characterization of Arsenic-Resistant Bacteria from Contaminated Water-Bodies in West Bengal, India. Geomicrobiology Journal, 2015, 32, 17-26.	2.0	21
29	Green silver nanoparticles for drug transport, bioactivities and a bacterium ( <i>Bacillus</i> ) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 342	3.6	21
30	Design and synthesis of reduced graphene oxide based supramolecular scaffold: A benign microbial resistant network for enzyme immobilization and cell growth. Materials Science and Engineering C, 2017, 75, 1168-1177.	7.3	21
31	Designing of a novel multi-epitope peptide based vaccine against <i>Brugia malayi</i> : An in silico approach. Infection, Genetics and Evolution, 2021, 87, 104633.	2.3	21
32	Designing efficient multi-epitope peptide-based vaccine by targeting the antioxidant thioredoxin of bancroftian filarial parasite. Infection, Genetics and Evolution, 2022, 98, 105237.	2.3	21
33	An Improved Method of Optimizing the Extraction of Polyphenol Oxidase from Potato ( <i>Solanum</i> ) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 342	0.4	20
34	Metabolic Inhibitors as Antiparasitic Drugs: Pharmacological, Biochemical and Molecular Perspectives. Current Drug Metabolism, 2016, 17, 937-970.	1.2	20
35	Designing AbhiSCoVac - A single potential vaccine for all "corona culprits": Immunoinformatics and immune simulation approaches. Journal of Molecular Liquids, 2022, 351, 118633.	4.9	20
36	Thioredoxin reductase from the bovine filarial parasite <i>Setaria cervi</i> : Studies on its localization and optimization of the extraction. International Journal of Biological Macromolecules, 2018, 107, 2375-2384.	7.5	19

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37	Chemotherapy vs. Immunotherapy in combating nCOVID19: An update. Human Immunology, 2021, 82, 649-658.	2.4	19
38	In Silico Identification of New Anti-SARS-CoV-2 Agents from Bioactive Phytocompounds Targeting the Viral Spike Glycoprotein and Human TLR4. Letters in Drug Design and Discovery, 2022, 19, 175-191.	0.7	18
39	Molecular evidence on the occurrence of co-infection with <i>Pichia guilliermondii</i> and <i>Wuchereria bancrofti</i> in two filarial endemic districts of India. Infectious Diseases of Poverty, 2014, 3, 13.	3.7	17
40	Polyphenol enriched ethanolic extract of <i>Cajanus scarabaeoides</i> (L.) Thouars exerts potential antifilarial activity by inducing oxidative stress and programmed cell death. PLoS ONE, 2018, 13, e0208201.	2.5	15
41	Optimization of growth determinants of a potent cellulolytic bacterium isolated from lignocellulosic biomass for enhancing biogas production. Clean Technologies and Environmental Policy, 2016, 18, 1565-1583.	4.1	13
42	Studying the Biological Activities and Molecular Docking of Some Novel Benzosultams and Benzosultones. Current Bioactive Compounds, 2017, 13, .	0.5	13
43	DNA mediated graphene oxide (GO)-nanosheets dispersed supramolecular GO-DNA hydrogel: An efficient soft-milieu for simplistic synthesis of Ag-NPs@GO-DNA and Gram <sup>+</sup> /ve bacteria-based Ag-NPs@GO-DNA-bacteria nano-bio composites. Journal of Molecular Liquids, 2021, 342, 117482.	4.9	13
44	Andrographolide induces anti-SARS-CoV-2 response through host-directed mechanism: an in silico study. Future Virology, 2022, 17, 651-673.	1.8	13
45	In-silico evidences on filarial cystatin as a putative ligand of human TLR4. Journal of Biomolecular Structure and Dynamics, 2022, 40, 8808-8824.	3.5	11
46	Toll-Like Receptors (TLRs) as Therapeutic Targets for Treating SARS-CoV-2: An Immunobiological Perspective. Advances in Experimental Medicine and Biology, 2021, 1352, 87-109.	1.6	11
47	Observation of external control and formation of a void in cogenerated dusty plasma. Plasma Sources Science and Technology, 2015, 24, 035007.	3.1	10
48	Polyphenol oxidase-based luminescent enzyme hydrogel: an efficient redox active immobilized scaffold. Bulletin of Materials Science, 2018, 41, 1.	1.7	10
49	Ginger extract ameliorates phosphamidon induced hepatotoxicity. Indian Journal of Experimental Biology, 2015, 53, 574-84.	0.0	10
50	In vitro antifilarial activity of <i>Azadirachta indica</i> aqueous extract through reactive oxygen species enhancement. Asian Pacific Journal of Tropical Medicine, 2014, 7, 841-848.	0.8	9
51	Ethanolic extract of <i>Azadirachta indica</i> (A. Juss.) causing apoptosis by ROS upregulation in <i>Dirofilaria immitis</i> microfilaria. Research in Veterinary Science, 2014, 97, 309-317.	1.9	8
52	Effect of bovine serum albumin on tartrate-modified manganese ferrite nano hollow spheres: spectroscopic and toxicity study. Physical Chemistry Chemical Physics, 2019, 21, 10726-10737.	2.8	8
53	<i>Diospyros perigrana</i> bark extract induced apoptosis in filarial parasite <i>Setaria cervi</i> through generation of reactive oxygen species. Pharmaceutical Biology, 2015, 53, 813-823.	2.9	7
54	IoT-Based Computational Frameworks in Disease Prediction and Healthcare Management: Strategies, Challenges, and Potential. Studies in Computational Intelligence, 2021, , 17-41.	0.9	7

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55	Bio-mimetic Behaviour of IPMC Artificial Muscle Using EMG Signal. , 2010, , .		6
56	Magnetic Field-Dependent Photoluminescence of Tartrate-Functionalized Gadolinium-Doped Manganese Ferrite Nanoparticles: A Potential Therapeutic Agent for Hyperbilirubinemia Treatment. ACS Applied Nano Materials, 2021, 4, 4379-4387.	5.0	5
57	Taming the Storm in the Heart: Exploring Different Therapeutic Choices Against Myocardial Inflammation in COVID-19. Recent Advances in Anti-Infective Drug Discovery, 2021, 16, 89-93.	0.8	5
58	Probiotics as Efficacious Therapeutic Option for Treating Gut-Related Diseases: Molecular and Immunobiological Perspectives. , 2022, , 69-93.		5
59	Exploring the homolog of a novel proinflammatory microfilarial sheath protein (MfP) of <i>Wuchereria bancrofti</i> in the adult-stage bovine filarial parasite <i>Setaria cervi</i> . Journal of Helminthology, 2020, 94, e15.	1.0	4
60	Polymer Anchored Gold Nanoparticles: Synthesis, Characterization and Antimicrobial Activities. Nanoscience and Nanotechnology - Asia, 2021, 11, 119-131.	0.7	4
61	Surface-Modified Noble Metal Nanoparticles as Antimicrobial Agents: Biochemical, Molecular and Therapeutic Perspectives. Environmental and Microbial Biotechnology, 2021, , 165-205.	0.7	4
62	Prebiotics as Promising Therapeutics for Treating Gut-Related Disorders: Biochemical and Molecular Perspectives. , 2022, , 133-154.		4
63	Applications of Artificial Intelligence (AI) Protecting from COVID-19 Pandemic: A Clinical and Socioeconomic Perspective. EAI/Springer Innovations in Communication and Computing, 2021, , 45-60.	1.1	3
64	Current Developments in Diagnostic Biosensor Technology: Relevance to Therapeutic Intervention of Infectious and Inflammatory Diseases of Human. Studies in Systems, Decision and Control, 2021, , 1-36.	1.0	3
65	Redox Regulatory Circuits as Targets for Therapeutic Intervention of Bancroftian Filariasis: Biochemical, Molecular, and Pharmacological Perspectives. , 2019, , 185-208.		3
66	An approach toward optimization of the influential growth determinants of opportunistic yeast isolate <i>Pichia guilliermondii</i> . Preparative Biochemistry and Biotechnology, 2016, 46, 440-445.	1.9	2
67	Emerging Threats of Microplastic Contaminant in Freshwater Environment. Environmental Challenges and Solutions, 2021, , 247-258.	0.9	2
68	Back Cover Image, Volume 92, Number 10, October 2020. Journal of Medical Virology, 2020, 92, ii.	5.0	0
69	COVID19 “Far from Over: Call for Urgent Novel and Advanced Measures. Coronaviruses, 2021, 02, .	0.3	0
70	Anti-microfilarial Activities of <i>Azadirachta indica</i> (A. Juss.) Against <i>Dirofilaria immitis</i> in Dogs (Canis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.0	0
71	Perturbation of the Health of the Riverine Ecosystem and its Impact on the Biogeochemical, Ecological, and Molecular Perspectives. , 2022, , 197-249.		0
72	Facets of nanoparticle-microbe interactions and their roles in nanobioremediation of environmental pollutants: Biochemical, molecular, and technological perspectives. , 2022, , 111-145.		0