

Suprabhat Mukherjee

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,268
citations

304701

22
h-index

243610

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. <i>Journal of Medical Virology</i> , 2020, 92, 2105-2113.	5.0	354
2	TLR2 and TLR4 mediated host immune responses in major infectious diseases: a review. <i>Brazilian Journal of Infectious Diseases</i> , 2016, 20, 193-204.	0.6	315
3	Toll-like receptor polymorphism in host immune response to infectious diseases: A review. <i>Scandinavian Journal of Immunology</i> , 2019, 90, e12771.	2.7	146
4	Potential use of polyphenol oxidases (PPO) in the bioremediation of phenolic contaminants containing industrial wastewater. <i>Reviews in Environmental Science and Biotechnology</i> , 2013, 12, 61-73.	8.1	116
5	Targeting human TLRs to combat COVID-19: A solution?. <i>Journal of Medical Virology</i> , 2021, 93, 615-617.	5.0	91
6	Vermicomposting of Tea Factory Coal Ash: Metal accumulation and metallothionein response in <i>Eisenia fetida</i> (Savigny) and <i>Lampito mauritii</i> (Kinberg). <i>Bioresource Technology</i> , 2014, 166, 96-102.	9.6	80
7	Gut microbes as future therapeutics in treating inflammatory and infectious diseases: Lessons from recent findings. <i>Journal of Nutritional Biochemistry</i> , 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. <i>Journal of Medical Virology</i> , 2021, 93, 2476-2486.	5.0	65
9	Antifilarial effects of polyphenol rich ethanolic extract from the leaves of <i>Azadirachta indica</i> through molecular and biochemical approaches describing reactive oxygen species (ROS) mediated apoptosis of <i>Setaria cervi</i> . <i>Experimental Parasitology</i> , 2014, 136, 41-58.	1.2	47
10	Exploring the binding efficacy of ivermectin against the key proteins of SARS-CoV-2 pathogenesis: an <i>in silico</i> approach. <i>Future Virology</i> , 2021, 16, 277-291.	1.8	45
11	A Novel Ligand of Toll-like Receptor 4 From the Sheath of <i>Wuchereria bancrofti</i> Microfilaria Induces Proinflammatory Response in Macrophages. <i>Journal of Infectious Diseases</i> , 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. <i>RSC Advances</i> , 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. <i>Journal of Molecular Liquids</i> , 2019, 282, 1-12.	4.9	35
14	Phenolics and Terpenoids; the Promising New Search for Anthelmintics: A Critical Review. <i>Mini-Reviews in Medicinal Chemistry</i> , 2016, 16, 1415-1441.	2.4	34
15	<i>Wuchereria bancrofti</i> filaria activates human dendritic cells and polarizes T helper 1 and regulatory T cells via toll-like receptor 4. <i>Communications Biology</i> , 2019, 2, 169.	4.4	31
16	Toll-like receptor 4 in COVID-19: friend or foe?. <i>Future Virology</i> , 2022, 17, 415-417.	1.8	31
17	Chitosan biopolymer functionalized gold nanoparticles with controlled cytotoxicity and improved antifilarial efficacy. <i>Advanced Composites and Hybrid Materials</i> , 2018, 1, 577-590.	21.1	30
18	Optimization of physicochemical parameters for phenol biodegradation by <i>Candida tropicalis</i> PHB5 using Taguchi Methodology. <i>Desalination and Water Treatment</i> , 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>). <i>Journal of Food Science and Technology</i> , 2014, 51, 3301-3308.	2.8	29
20	Antifilarial effect of ursolic acid from <i>Nyctanthes arbortristis</i> : Molecular and biochemical evidences. <i>Parasitology International</i> , 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. <i>Applied Surface Science</i> , 2019, 495, 143562.	6.1	27
22	A supramolecular hydrogel for generation of a benign DNA-hydrogel. <i>RSC Advances</i> , 2015, 5, 105961-105968.	3.6	26
23	Quinolone-fused cyclic sulfonamide as a novel benign antifilarial agent. <i>Scientific Reports</i> , 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. <i>Frontiers in Immunology</i> , 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. <i>Parasite Immunology</i> , 2017, 39, e12389.	1.5	23
26	Aryl quinolinyl hydrazone derivatives as anti-inflammatory agents that inhibit TLR4 activation in the macrophages. <i>European Journal of Pharmaceutical Sciences</i> , 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. <i>Frontiers in Genetics</i> , 2021, 12, 608313.	2.3	22
28	Isolation and Characterization of Arsenic-Resistant Bacteria from Contaminated Water-Bodies in West Bengal, India. <i>Geomicrobiology Journal</i> , 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 If 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. <i>Materials Science and Engineering C</i> , 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. <i>Infection, Genetics and Evolution</i> , 2021, 87, 104633.	2.3	21
32	Designing efficient multi-epitope peptide-based vaccine by targeting the antioxidant thioredoxin of bancroftian filarial parasite. <i>Infection, Genetics and Evolution</i> , 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 If 50 342	0.4	20
34	Metabolic Inhibitors as Antiparasitic Drugs: Pharmacological, Biochemical and Molecular Perspectives. <i>Current Drug Metabolism</i> , 2016, 17, 937-970.	1.2	20
35	Designing AbhiSCoVac - A single potential vaccine for all "corona culprits": Immunoinformatics and immune simulation approaches. <i>Journal of Molecular Liquids</i> , 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. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 2375-2384.	7.5	19

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37	Chemotherapy vs. Immunotherapy in combating nCOVID19: An update. <i>Human Immunology</i> , 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. <i>Letters in Drug Design and Discovery</i> , 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. <i>Infectious Diseases of Poverty</i> , 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. <i>PLoS ONE</i> , 2018, 13, e0208201.	2.5	15
41	Optimization of growth determinants of a potent cellulolytic bacterium isolated from lignocellulosic biomass for enhancing biogas production. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 1565-1583.	4.1	13
42	Studying the Biological Activities and Molecular Docking of Some Novel Benzosultams and Benzosultones. <i>Current Bioactive Compounds</i> , 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 ⁺ / ⁻ ve bacteria-based Ag-NPs@GO-DNA-bacteria nano-bio composites. <i>Journal of Molecular Liquids</i> , 2021, 342, 117482.	4.9	13
44	Andrographolide induces anti-SARS-CoV-2 response through host-directed mechanism: an <i>in silico</i> study. <i>Future Virology</i> , 2022, 17, 651-673.	1.8	13
45	<i>In-silico</i> evidences on filarial cystatin as a putative ligand of human TLR4. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 8808-8824.	3.5	11
46	Toll-Like Receptors (TLRs) as Therapeutic Targets for Treating SARS-CoV-2: An Immunobiological Perspective. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1352, 87-109.	1.6	11
47	Observation of external control and formation of a void in cogenerated dusty plasma. <i>Plasma Sources Science and Technology</i> , 2015, 24, 035007.	3.1	10
48	Polyphenol oxidase-based luminescent enzyme hydrogel: an efficient redox active immobilized scaffold. <i>Bulletin of Materials Science</i> , 2018, 41, 1.	1.7	10
49	Ginger extract ameliorates phosphamidon induced hepatotoxicity. <i>Indian Journal of Experimental Biology</i> , 2015, 53, 574-84.	0.0	10
50	In vitro antifilarial activity of <i>Azadirachta indica</i> aqueous extract through reactive oxygen species enhancement. <i>Asian Pacific Journal of Tropical Medicine</i> , 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. <i>Research in Veterinary Science</i> , 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. <i>Physical Chemistry Chemical Physics</i> , 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. <i>Pharmaceutical Biology</i> , 2015, 53, 813-823.	2.9	7
54	IoT-Based Computational Frameworks in Disease Prediction and Healthcare Management: Strategies, Challenges, and Potential. <i>Studies in Computational Intelligence</i> , 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