Suprabhat Mukherjee

List of Publications by Year in Descending Order

69 papers	1,326 citations	19 h-index	34 g-index
75 ext. papers	1,753 ext. citations	4.9 avg, IF	5.72 L-index

#	Paper	IF	Citations
69	Facets of nanoparticle-microbe interactions and their roles in nanobioremediation of environmental pollutants: Biochemical, molecular, and technological perspectives **2022**, 111-145		
68	Designing AbhiSCoVac - A single potential vaccine for all Corona culprits? Immunoinformatics and immune simulation approaches.. *Journal of Molecular Liquids*, **2022**, 351, 118633	6	4
67	Designing efficient multi-epitope peptide-based vaccine by targeting the antioxidant thioredoxin of bancroftian filarial parasite.. *Infection, Genetics and Evolution*, **2022**, 98, 105237	4.5	4
66	Perturbation of the Health of the Riverine Ecosystem and its Impact on the Biogeochemical, Ecological, and Molecular Perspectives **2022**, 197-249		
65	Prebiotics as Promising Therapeutics for Treating Gut-Related Disorders: Biochemical and Molecular Perspectives **2022**, 133-154		1
64	Probiotics as Efficacious Therapeutic Option for Treating Gut-Related Diseases: Molecular and Immunobiological Perspectives **2022**, 69-93		1
63	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	8.4	4
62	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	5.6	1
61	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	2.4	20
60	Polymer Anchored Gold Nanoparticles: Synthesis, Characterization and Antimicrobial Activities. *Nanoscience and Nanotechnology - Asia*, **2021**, 11, 119-131	0.7	2
59	evidences on filarial cystatin as a putative ligand of human TLR4. *Journal of Biomolecular Structure and Dynamics*, **2021**, 1-17	3.6	3
58	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	0.5	0
57	Designing of a novel multi-epitope peptide based vaccine against Brugia malayi: An in silico approach. *Infection, Genetics and Evolution*, **2021**, 87, 104633	4.5	9
56	Targeting human TLRs to combat COVID-19: A solution?. *Journal of Medical Virology*, **2021**, 93, 615-617	19.7	42
55	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	0.6	0
54	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	19.7	24
53	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	0.8	2

52	Emerging Threats of Microplastic Contaminant in Freshwater Environment. *Environmental Challenges and Solutions*, **2021**, 247-258	0	1
51	IoT-Based Computational Frameworks in Disease Prediction and Healthcare Management: Strategies, Challenges, and Potential. *Studies in Computational Intelligence*, **2021**, 17-41	0.8	3
50	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	4.5	10
49	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*, **2021**, 18,	0.8	3
48	Chemotherapy vs. Immunotherapy in combating nCOVID19: An update. *Human Immunology*, **2021**, 82, 649-658	2.3	3
47	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/-ve bacteria-based Ag-NPs@GO-DNA-bacteria nano-bio composites. *Journal of Molecular Liquids*, **2021**, 342, 117482	6	3
46	Surface-Modified Noble Metal Nanoparticles as Antimicrobial Agents: Biochemical, Molecular and Therapeutic Perspectives. *Environmental and Microbial Biotechnology*, **2021**, 165-205	1.4	2
45	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	3.6	1
44	In silico studies on the comparative characterization of the interactions of SARS-CoV-2 spike glycoprotein with ACE-2 receptor homologs and human TLRs. *Journal of Medical Virology*, **2020**, 92, 2105-2113	19.7	194
43	filaria activates human dendritic cells and polarizes T helper 1 and regulatory T cells via toll-like receptor 4. *Communications Biology*, **2019**, 2, 169	6.7	20
42	Toll-like receptor polymorphism in host immune response to infectious diseases: A review. *Scandinavian Journal of Immunology*, **2019**, 90, e12771	3.4	78
41	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	3.6	5
40	Aryl quinolinyl hydrazone derivatives as anti-inflammatory agents that inhibit TLR4 activation in the macrophages. *European Journal of Pharmaceutical Sciences*, **2019**, 134, 102-115	5.1	13
39	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	6	21
38	Synthesis of smart graphene quantum dots: A benign biomaterial for prominent intracellular imaging and improvement of drug efficacy. *Applied Surface Science*, **2019**, 495, 143562	6.7	15
37	Redox Regulatory Circuits as Targets for Therapeutic Intervention of Bancroftian Filariasis: Biochemical, Molecular, and Pharmacological Perspectives **2019**, 185-208		1
36	Polyphenol oxidase-based luminescent enzyme hydrogel: an efficient redox active immobilized scaffold. *Bulletin of Materials Science*, **2018**, 41, 1	1.7	9
35	Thioredoxin reductase from the bovine filarial parasite Setaria cervi: Studies on its localization and optimization of the extraction. *International Journal of Biological Macromolecules*, **2018**, 107, 2375-2384	7.9	15

34	Quinolone-fused cyclic sulfonamide as a novel benign antifilarial agent. *Scientific Reports*, **2018**, 8, 12073	4.9	18
33	Gut microbes as future therapeutics in treating inflammatory and infectious diseases: Lessons from recent findings. *Journal of Nutritional Biochemistry*, **2018**, 61, 111-128	6.3	35
32	Exploring the homolog of a novel proinflammatory microfilarial sheath protein (MfP) of in the adult-stage bovine filarial parasite. *Journal of Helminthology*, **2018**, 94, e15	1.6	4
31	Polyphenol enriched ethanolic extract of Cajanus scarabaeoides (L.) Thouars exerts potential antifilarial activity by inducing oxidative stress and programmed cell death. *PLoS ONE*, **2018**, 13, e0208201	3.7	9
30	Chitosan biopolymer functionalized gold nanoparticles with controlled cytotoxicity and improved antifilarial efficacy. *Advanced Composites and Hybrid Materials*, **2018**, 1, 577-590	8.7	24
29	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	8.3	17
28	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	7	25
27	Studying the Biological Activities and Molecular Docking of Some Novel Benzosultams and Benzosultones. *Current Bioactive Compounds*, **2017**, 13,	0.9	10
26	Surface proteins of Setaria cervi induce inflammation in macrophage through Toll-like receptor 4 (TLR4)-mediated signalling pathway. *Parasite Immunology*, **2017**, 39, e12389	2.2	14
25	An approach toward optimization of the influential growth determinants of opportunistic yeast isolate Pichia guilliermondii. *Preparative Biochemistry and Biotechnology*, **2016**, 46, 440-5	2.4	2
24	TLR2 and TLR4 mediated host immune responses in major infectious diseases: a review. *Brazilian Journal of Infectious Diseases*, **2016**, 20, 193-204	2.8	176
23	Metabolic Inhibitors as Antiparasitic Drugs: Pharmacological, Biochemical and Molecular Perspectives. *Current Drug Metabolism*, **2016**, 17, 937-970	3.5	14
22	Phenolics and Terpenoids; the Promising New Search for Anthelmintics: A Critical Review. *Mini-Reviews in Medicinal Chemistry*, **2016**, 16, 1415-1441	3.2	20
21	Green silver nanoparticles for drug transport, bioactivities and a bacterium (Bacillus subtilis)-mediated comparative nano-patterning feature. *RSC Advances*, **2016**, 6, 46573-46581	3.7	17
20	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	4.3	12
19	Diospyros perigrena bark extract induced apoptosis in filarial parasite Setaria cervi through generation of reactive oxygen species. *Pharmaceutical Biology*, **2015**, 53, 813-23	3.8	3
18	Observation of external control and formation of a void in cogenerated dusty plasma. *Plasma Sources Science and Technology*, **2015**, 24, 035007	3.5	8
17	A supramolecular hydrogel for generation of a benign DNA-hydrogel. *RSC Advances*, **2015**, 5, 105961-105968	3.7	21

16	Isolation and Characterization of Arsenic-Resistant Bacteria from Contaminated Water-Bodies in West Bengal, India. *Geomicrobiology Journal*, **2015**, 32, 17-26	2.5	19
15	Ginger extract ameliorates phosphamidon induced hepatotoxicity. *Indian Journal of Experimental Biology*, **2015**, 53, 574-84		10
14	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	2.1	40
13	In vitro antifilarial activity of Azadirachta indica aqueous extract through reactive oxygen species enhancement. *Asian Pacific Journal of Tropical Medicine*, **2014**, 7, 841-8	2.1	8
12	Design and green synthesis of polymer inspired nanoparticles for the evaluation of their antimicrobial and antifilarial efficiency. *RSC Advances*, **2014**, 4, 34487	3.7	31
11	Ethanolic extract of Azadirachta indica (A. Juss.) causing apoptosis by ROS upregulation in Dirofilaria immitis microfilaria. *Research in Veterinary Science*, **2014**, 97, 309-17	2.5	5
10	Molecular evidence on the occurrence of co-infection with Pichia guilliermondii and Wuchereria bancrofti in two filarial endemic districts of India. *Infectious Diseases of Poverty*, **2014**, 3, 13	10.4	16
9	Antifilarial effect of ursolic acid from Nyctanthes arbortristis: molecular and biochemical evidences. *Parasitology International*, **2014**, 63, 717-28	2.1	19
8	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	11	65
7	An approach towards optimization of the extraction of polyphenolic antioxidants from ginger (Zingiber officinale). *Journal of Food Science and Technology*, **2014**, 51, 3301-8	3.3	22
6	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	13.9	94
5	Optimization of physicochemical parameters for phenol biodegradation by Candida tropicalis PHB5 using Taguchi Methodology. *Desalination and Water Treatment*, **2013**, 51, 6846-6862		24
4	An Improved Method of Optimizing the Extraction of Polyphenol Oxidase from Potato (Solanum tuberosum L.) Peel. *Notulae Scientia Biologicae*, **2012**, 4, 98-107	0.4	18
3	Bio-mimetic Behaviour of IPMC Artificial Muscle Using EMG Signal **2010**,		4
2	Anti-microfilarial Activities of Azadirachta indica (A. Juss.) Against Dirofilaria immitis in Dogs (Canis familiaris). *Proceedings of the Zoological Society*,	0.5	
1	In silico analyses on the comparative sensing of SARS-CoV-2 mRNA by intracellular TLRs of human		3