

# Manojit Bhattacharya

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

2,940  
citations

185998

28  
h-index

205818

48  
g-index

107  
all docs

107  
docs citations

107  
times ranked

3339  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of epitope-based peptide vaccine against novel coronavirus 2019 (SARS-CoV-2): Immunoinformatics approach. <i>Journal of Medical Virology</i> , 2020, 92, 618-631.	2.5	315
2	SARS-CoV-2 causing pneumonia-associated respiratory disorder (COVID-19): diagnostic and proposed therapeutic options. <i>European Review for Medical and Pharmacological Sciences</i> , 2020, 24, 4016-4026.	0.5	186
3	Advances in nanocarriers enabled brain targeted drug delivery across blood brain barrier. <i>International Journal of Pharmaceutics</i> , 2019, 559, 360-372.	2.6	132
4	CRISPR-Cas9: A Preclinical and Clinical Perspective for the Treatment of Human Diseases. <i>Molecular Therapy</i> , 2021, 29, 571-586.	3.7	124
5	Probable Molecular Mechanism of Remdesivir for the Treatment of COVID-19: Need to Know More. <i>Archives of Medical Research</i> , 2020, 51, 585-586.	1.5	110
6	Repurposing Drugs, Ongoing Vaccine, and New Therapeutic Development Initiatives Against COVID-19. <i>Frontiers in Pharmacology</i> , 2020, 11, 1258.	1.6	91
7	The Drug Repurposing for COVID-19 Clinical Trials Provide Very Effective Therapeutic Combinations: Lessons Learned From Major Clinical Studies. <i>Frontiers in Pharmacology</i> , 2021, 12, 704205.	1.6	89
8	Tocilizumab: A Therapeutic Option for the Treatment of Cytokine Storm Syndrome in COVID-19. <i>Archives of Medical Research</i> , 2020, 51, 595-597.	1.5	81
9	From COVID-19 to Cancer mRNA Vaccines: Moving From Bench to Clinic in the Vaccine Landscape. <i>Frontiers in Immunology</i> , 2021, 12, 679344.	2.2	74
10	A Detailed Overview of Immune Escape, Antibody Escape, Partial Vaccine Escape of SARS-CoV-2 and Their Emerging Variants With Escape Mutations. <i>Frontiers in Immunology</i> , 2022, 13, 801522.	2.2	73
11	MicroRNAs mediated regulation of MAPK signaling pathways in chronic myeloid leukemia. <i>Oncotarget</i> , 0, 7, 42683-42697.	0.8	72
12	Present variants of concern and variants of interest of severe acute respiratory syndrome coronavirus 2: Their significant mutations in S-glycoprotein, infectivity, re-infectivity, immune escape and vaccines activity. <i>Reviews in Medical Virology</i> , 2022, 32, e2270.	3.9	71
13	Immunoinformatics approach to understand molecular interaction between multi-epitopic regions of SARS-CoV-2 spike-protein with TLR4/MD-2 complex. <i>Infection, Genetics and Evolution</i> , 2020, 85, 104587.	1.0	68
14	The 2019 novel coronavirus disease (COVID-19) pandemic: A zoonotic prospective. <i>Asian Pacific Journal of Tropical Medicine</i> , 2020, 13, 242.	0.4	67
15	COVID-19: Consider IL-6 receptor antagonist for the therapy of cytokine storm syndrome in SARS-CoV-2 infected patients. <i>Journal of Medical Virology</i> , 2020, 92, 2260-2262.	2.5	62
16	Evolution, Mode of Transmission, and Mutational Landscape of Newly Emerging SARS-CoV-2 Variants. <i>MBio</i> , 2021, 12, e0114021.	1.8	58
17	A SARS-CoV-2 vaccine candidate: In-silico cloning and validation. <i>Informatics in Medicine Unlocked</i> , 2020, 20, 100394.	1.9	55
18	Consider TLR5 for new therapeutic development against COVID-19. <i>Journal of Medical Virology</i> , 2020, 92, 2314-2315.	2.5	54

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19	Extensive Partnership, Collaboration, and Teamwork is Required to Stop the COVID-19 Outbreak. Archives of Medical Research, 2020, 51, 728-730.	1.5	52
20	The current second wave and COVID-19 vaccination status in India. Brain, Behavior, and Immunity, 2021, 96, 1-4.	2.0	47
21	Exploring the binding efficacy of ivermectin against the key proteins of SARS-CoV-2 pathogenesis: an <i>in silico</i> approach. Future Virology, 2021, 16, 277-291.	0.9	45
22	DNA barcoding to fishes: current status and future directions. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2016, 27, 2744-2752.	0.7	43
23	The crucial role and regulations of miRNAs in zebrafish development. Protoplasma, 2017, 254, 17-31.	1.0	39
24	Omicron variant (B.1.1.529) of SARS-CoV-2: understanding mutations in the genome, S-glycoprotein, and antibody-binding regions. GeroScience, 2022, 44, 619-637.	2.1	39
25	Promising approaches of small interfering RNAs (siRNAs) mediated cancer gene therapy. Gene, 2019, 719, 144071.	1.0	37
26	A Novel Multi-Epitopic Peptide Vaccine Candidate Against Helicobacter pylori: In-Silico Identification, Design, Cloning and Validation Through Molecular Dynamics. International Journal of Peptide Research and Therapeutics, 2021, 27, 1149-1166.	0.9	37
27	Identification and pathogenicity study of emerging fish pathogens <i>Acinetobacter junii</i> and <i>Acinetobacter pittii</i> recovered from a disease outbreak in <i>Labeo catla</i> (Hamilton, 1822) and <i>Hypophthalmichthys molitrix</i> (Valenciennes, 1844) of freshwater wetland in West Bengal, India. Aquaculture Research, 2020, 51, 2410-2420.	0.9	35
28	D614G mutation and SARS-CoV-2: impact on S-protein structure, function, infectivity, and immunity. Applied Microbiology and Biotechnology, 2021, 105, 9035-9045.	1.7	34
29	Appearance and re-appearance of zoonotic disease during the pandemic period: long-term monitoring and analysis of zoonosis is crucial to confirm the animal origin of SARS-CoV-2 and monkeypox virus. Veterinary Quarterly, 2022, 42, 119-124.	3.0	32
30	D614G mutation eventuates in all VOI and VOC in SARS-CoV-2: Is it part of the positive selection pioneered by Darwin?. Molecular Therapy - Nucleic Acids, 2021, 26, 237-241.	2.3	30
31	Designing an effective therapeutic siRNA to silence RdRp gene of SARS-CoV-2. Infection, Genetics and Evolution, 2021, 93, 104951.	1.0	29
32	Emerging mutations in the SARS-CoV-2 variants and their role in antibody escape to small molecule-based therapeutic resistance. Current Opinion in Pharmacology, 2022, 62, 64-73.	1.7	29
33	Recombinant SARS-CoV-2 variants XD, XE, and XF: The emergence of recombinant variants requires an urgent call for research – Correspondence. International Journal of Surgery, 2022, 102, 106670.	1.1	27
34	Immunoinformatics Approach for the Identification and Characterization of T Cell and B Cell Epitopes towards the Peptide-Based Vaccine against SARS-CoV-2. Archives of Medical Research, 2021, 52, 362-370.	1.5	24
35	In silico structural and functional modelling of Antifreeze protein (AFP) sequences of Ocean pout ( <i>Zoarces americanus</i> , Bloch & Schneider 1801). Journal of Genetic Engineering and Biotechnology, 2018, 16, 721-730.	1.5	23
36	Asian-Origin Approved COVID-19 Vaccines and Current Status of COVID-19 Vaccination Program in Asia: A Critical Analysis. Vaccines, 2021, 9, 600.	2.1	22

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37	Recent research progress on circular RNAs: Biogenesis, properties, functions, and therapeutic potential. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 25, 355-371.	2.3	22
38	Environmental DNA (eDNA): A Promising Biological Survey Tool for Aquatic Species Detection. <i>Proceedings of the Zoological Society</i> , 2019, 72, 211-228.	0.4	21
39	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.	1.0	21
40	Ongoing Clinical Trials of Vaccines to Fight against COVID-19 Pandemic. <i>Immune Network</i> , 2021, 21, e5.	1.6	21
41	Computational characterization of epitopic region within the outer membrane protein candidate in <i>Flavobacterium columnare</i> for vaccine development. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 450-459.	2.0	20
42	A Next-Generation Vaccine Candidate Using Alternative Epitopes to Protect against Wuhan and All Significant Mutant Variants of SARS-CoV-2: An Immunoinformatics Approach. , 2021, 12, 2173.		20
43	Marine fishes of West Bengal coast, India: Diversity and conservation preclusion. <i>Regional Studies in Marine Science</i> , 2017, 16, 56-66.	0.4	19
44	SARS-CoV-2 protein drug targets landscape: a potential pharmacological insight view for the new drug development. <i>Expert Review of Clinical Pharmacology</i> , 2021, 14, 225-237.	1.3	18
45	SARS-CoV-2 Brazil variants in Latin America: More serious research urgently needed on public health and vaccine protection. <i>Annals of Medicine and Surgery</i> , 2021, 66, 102428.	0.5	18
46	Circulating miRNA in Atherosclerosis: A Clinical Biomarker and Early Diagnostic Tool. <i>Current Molecular Medicine</i> , 2022, 22, 250-262.	0.6	17
47	Understanding Gene Expression and Transcriptome Profiling of COVID-19: An Initiative Towards the Mapping of Protective Immunity Genes Against SARS-CoV-2 Infection. <i>Frontiers in Immunology</i> , 2021, 12, 724936.	2.2	17
48	Bioengineering of Novel Non-Replicating mRNA (NRM) and Self-Amplifying mRNA (SAM) Vaccine Candidates Against SARS-CoV-2 Using Immunoinformatics Approach. <i>Molecular Biotechnology</i> , 2022, 64, 510-525.	1.3	15
49	Ichthyofaunal Diversity and Water Quality in the Kangsabati Reservoir, West Bengal, India. <i>Advances in Zoology</i> , 2014, 2014, 1-8.	0.2	14
50	Epitope-Based Vaccine Designing of <i>Nocardia asteroides</i> Targeting the Virulence Factor Mce-Family Protein by Immunoinformatics Approach. <i>International Journal of Peptide Research and Therapeutics</i> , 2020, 26, 1165-1176.	0.9	14
51	Computer aided novel antigenic epitopes selection from the outer membrane protein sequences of <i>Aeromonas hydrophila</i> and its analyses. <i>Infection, Genetics and Evolution</i> , 2020, 82, 104320.	1.0	14
52	Altered gut microbiota patterns in COVID-19: Markers for inflammation and disease severity. <i>World Journal of Gastroenterology</i> , 2022, 28, 2802-2822.	1.4	13
53	Freshwater fish resource mapping and conservation strategies of West Bengal, India. <i>Spatial Information Research</i> , 2017, 25, 635-645.	1.3	12
54	Biocomputational Analysis and In Silico Characterization of an Angiogenic Protein (RNase5) in Zebrafish ( <i>Danio rerio</i> ). <i>International Journal of Peptide Research and Therapeutics</i> , 2020, 26, 1687-1697.	0.9	12

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55	Hybrid immunity against COVID-19 in different countries with a special emphasis on the Indian scenario during the Omicron period. <i>International Immunopharmacology</i> , 2022, 108, 108766.	1.7	12
56	All Nations Must Prioritize the COVID-19 Vaccination Program for Elderly Adults Urgently. , 2021, 12, 688.		11
57	A Paradigm Shift in the Combination Changes of SARS-CoV-2 Variants and Increased Spread of Delta Variant (B.1.617.2) across the World. , 2022, 13, 927.		11
58	A cross-sectional study on water quality in relation to fish diversity of Paschim Medinipur, West Bengal, India through geoinformatics approaches. <i>Egyptian Journal of Aquatic Research</i> , 2017, 43, 283-289.	1.0	10
59	Ichthyofaunal Diversity of Kangsabati River at Paschim Medinipur District, West Bengal, India. <i>Proceedings of the Zoological Society</i> , 2017, 70, 165-173.	0.4	9
60	Therapeutic applications of zebrafish ( <i>Danio rerio</i> ) miRNAs linked with human diseases: A prospective review. <i>Gene</i> , 2018, 679, 202-211.	1.0	9
61	Diabetes and COVID-19: a major challenge in pandemic period?. <i>European Review for Medical and Pharmacological Sciences</i> , 2020, 24, 11409-11420.	0.5	9
62	Continent-wide evolutionary trends of emerging SARS-CoV-2 variants: dynamic profiles from Alpha to Omicron. <i>GeroScience</i> , 2022, 44, 2371-2392.	2.1	9
63	Multi-cluster analysis of Crabs and Ichthyofaunal Diversity in relation to habitat distribution at Tropical Mangrove ecosystem of the Indian Sundarbans. <i>Regional Studies in Marine Science</i> , 2018, 24, 203-211.	0.4	8
64	Single-cell sequencing of miRNAs: A modified technology. <i>Cell Biology International</i> , 2020, 44, 1773-1780.	1.4	8
65	Identification and Design of a Next-Generation Multi Epitopes Bases Peptide Vaccine Candidate Against Prostate Cancer: An In Silico Approach. <i>Cell Biochemistry and Biophysics</i> , 2020, 78, 495-509.	0.9	8
66	Determination of k-mer density in a DNA sequence and subsequent cluster formation algorithm based on the application of electronic filter. <i>Scientific Reports</i> , 2021, 11, 13701.	1.6	8
67	Recent progress of circular RNAs in different types of human cancer: Technological landscape, clinical opportunities and challenges (Review). <i>International Journal of Oncology</i> , 2022, 60, .	1.4	8
68	Assessment of Domestic Water Use Pattern and Drinking Water Quality of Sikkim, North Eastern Himalaya, India: A Cross-sectional Study. <i>Journal of the Geological Society of India</i> , 2019, 94, 507-514.	0.5	7
69	Interaction between miRNAs and signaling cascades of Wnt pathway in chronic lymphocytic leukemia. <i>Journal of Cellular Biochemistry</i> , 2020, 121, 4654-4666.	1.2	7
70	Response to: Status of Remdesivir: Not Yet Beyond Question!. <i>Archives of Medical Research</i> , 2021, 52, 104-106.	1.5	7
71	IoT-Based Computational Frameworks in Disease Prediction and Healthcare Management: Strategies, Challenges, and Potential. <i>Studies in Computational Intelligence</i> , 2021, , 17-41.	0.7	7
72	MicroRNAs: Possible Regulatory Molecular Switch Controlling the BBB Microenvironment. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 19, 933-936.	2.3	7

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73	Comparative genomics, evolutionary epidemiology, and RBD-hACE2 receptor binding pattern in B.1.1.7 (Alpha) and B.1.617.2 (Delta) related to their pandemic response in UK and India. <i>Infection, Genetics and Evolution</i> , 2022, 101, 105282.	1.0	7
74	Lessons Learned from Cutting-Edge Immunoinformatics on Next-Generation COVID-19 Vaccine Research. <i>International Journal of Peptide Research and Therapeutics</i> , 2021, 27, 2303-2311.	0.9	6
75	Plant-based vaccine research development against viral diseases with emphasis on Ebola virus disease: A review study. <i>Current Opinion in Pharmacology</i> , 2021, 60, 261-267.	1.7	6
76	Influence of single nucleotide polymorphisms (SNPs) in genetic susceptibility towards periprosthetic osteolysis. <i>Genes and Genomics</i> , 2019, 41, 1113-1125.	0.5	5
77	SARS-CoV-2 and other human coronaviruses: Mapping of protease recognition sites, antigenic variation of spike protein and their grouping through molecular phylogenetics. <i>Infection, Genetics and Evolution</i> , 2021, 89, 104729.	1.0	5
78	Assessment and modeling of fish diversity related to water bodies of Bankura district, West Bengal, India, for sustainable management of culture practices. <i>Environment, Development and Sustainability</i> , 2020, 22, 971-984.	2.7	4
79	TN strain proteome mediated therapeutic target mapping and multi-epitopic peptide-based vaccine development for <i>Mycobacterium leprae</i> . <i>Infection, Genetics and Evolution</i> , 2022, 99, 105245.	1.0	4
80	Phylogenetic relationships linking <i>Duttaphrynus</i> (Amphibia: Anura: Bufonidae) species based on 12S and 16S rDNA sequences. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2016, 27, 2881-2882.	0.7	3
81	Insight into Evolution and Conservation Patterns of B1-Subfamily Members of GPCR. <i>International Journal of Peptide Research and Therapeutics</i> , 2020, 26, 2505-2517.	0.9	3
82	Applications of Artificial Intelligence (AI) Protecting from COVID-19 Pandemic: A Clinical and Socioeconomic Perspective. <i>EAI/Springer Innovations in Communication and Computing</i> , 2021, , 45-60.	0.9	3
83	Anthropogenic Stress on River Health: With Special Reference to Kangsabati River, West Bengal, India. , 2022, , 39-61.		3
84	COVID-19 vaccine: Challenges in developing countries and India's initiatives. <i>Infezioni in Medicina</i> , 2021, 29, 165-166.	0.7	3
85	Length-weight relationships of three freshwater fish species from Rupnaryan and Kangsabati River, West Bengal, India. <i>Journal of Applied Ichthyology</i> , 2019, 35, 585-586.	0.3	2
86	Crabs Diversity of Digha Coast, West Bengal, India. <i>Proceedings of the Zoological Society</i> , 2019, 72, 206-210.	0.4	2
87	Length-Weight Relationship analysis of four freshwater fish Species from Doyang reservoir at Nagaland, India. <i>Journal of Applied Ichthyology</i> , 2020, 36, 249-250.	0.3	2
88	Emerging Threats of Microplastic Contaminant in Freshwater Environment. <i>Environmental Challenges and Solutions</i> , 2021, , 247-258.	0.5	2
89	Role of Modern Biotechnology in the Era of River Water Pollution. , 2022, , 63-79.		2
90	Assessment of Potential Marine Fishing Zone Using Geospatial Technologies at the Coastal Stretch of West Bengal, India. , 2018, , 385-399.		1

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91	Length-weight relationship of nine Clupeiform fish species from the Digha coast, West Bengal, India. <i>Journal of Applied Ichthyology</i> , 2018, 34, 1351-1353.	0.3	1
92	The bacteriophage mu lysis system—A new mechanism of host lysis?. <i>Biocell</i> , 2021, 45, 1175-1186.	0.4	1
93	Understanding the molecular evolution of tiger diversity through DNA barcoding marker ND4 and NADH dehydrogenase complex using computational biology. <i>Genes and Genomics</i> , 2021, 43, 759-773.	0.5	1
94	In-silico analysis of non-synonymous SNPs of human LDLR gene and their impact on familial hypercholesterolemia. <i>Gene Reports</i> , 2021, 23, 101127.	0.4	1
95	Application of Internet Assistance Computation for Disease Prediction and Bio-modeling: Modern Trends in Medical Science. <i>Intelligent Systems Reference Library</i> , 2020, , 327-346.	1.0	1
96	Impacts of Gully Erosion on River Water Quality and Fish Resources: A Case Study. <i>Advances in Science, Technology and Innovation</i> , 2020, , 345-355.	0.2	1
97	Evaluation and Designing of Epitopic-Peptide Vaccine Against Bunyamwera orthobunyavirus Using M-Polyprotein Target Sequences. <i>International Journal of Peptide Research and Therapeutics</i> , 2022, 28, 5.	0.9	1
98	COVID-19 vaccines and vaccination program for aging adults. <i>European Review for Medical and Pharmacological Sciences</i> , 2021, 25, 6719-6730.	0.5	1
99	Molecular signature pathway of gene protein interaction in human mitochondrial DNA (mtDNA) metabolism linked disease. <i>Indian Journal of Medical Specialities</i> , 2018, 9, 77-85.	0.1	0
100	Threats to Fish and Fisheries of Kangsabati Reservoir, West Bengal, India. <i>Proceedings of the Zoological Society</i> , 2018, 71, 281-285.	0.4	0
101	Molecular signature of selective microRNAs in <i>Cyprinus carpio</i> (Linnaeus 1758):a computational approach. <i>ExRNA</i> , 2019, 1, .	1.0	0
102	PPAR $\beta$ LBD and its ligand specificity reveal a selection of potential partial agonist: Molecular dynamics based T2D drug discovery initiative. <i>Biocell</i> , 2021, 45, 953-961.	0.4	0
103	Assessment of Groundwater Resource Pollution in Kangsabati River Basin, Paschim Medinipur, West Bengal, India. <i>Springer Hydrogeology</i> , 2021, , 357-370.	0.1	0
104	A Mitogenomic Exploration of the Phylogeny and Evolution of Extant Anurans. <i>Russian Journal of Herpetology</i> , 2017, 24, 163.	0.2	0
105	River Health and Ecology: Perspective View and Approach. , 2022, , 1-7.		0
106	Tidal Morphology and Environmental Consequences of Rasulpur River in the Era of Anthropocene. , 2020, , 357-379.		0
107	Exploring the status of global terrestrial and aquatic microbial diversity through “Biodiversity Informatics”™. <i>Environment, Development and Sustainability</i> , 0, , .	2.7	0