Bijay K Behera

List of Publications by Year
in descending order

98	2,625	279487	214527
papers	citations	23 h-index	47 g-index

103	103	103	2909
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Beta-glucan: an ideal immunostimulant in aquaculture (a review). Fish Physiology and Biochemistry, 2013, 39, 431-457.	0.9	353
2	Ultrasensitive Colorimetric Detection of Murine Norovirus Using NanoZyme Aptasensor. Analytical Chemistry, 2019, 91, 3270-3276.	3.2	174
3	Emergence of Tilapia Lake Virus associated with mortalities of farmed Nile Tilapia Oreochromis niloticus (Linnaeus 1758) in India. Aquaculture, 2018, 484, 168-174.	1.7	156
4	Spatial distribution of meso and microplastics in the sediments of river Ganga at eastern India. Science of the Total Environment, 2019, 694, 133712.	3.9	148
5	Occurrence, fate and removal of microplastics as heavy metal vector in natural wastewater treatment wetland system. Water Research, 2021, 192, 116853.	5.3	146
6	Probiotics in fish and shellfish culture: immunomodulatory and ecophysiological responses. Fish Physiology and Biochemistry, 2014, 40, 921-71.	0.9	134
7	Amino Acid Compositions of 27 Food Fishes and Their Importance in Clinical Nutrition. Journal of Amino Acids, 2014, 2014, 1-7.	5.8	128
8	Polycyclic Aromatic Hydrocarbons (PAHs) in inland aquatic ecosystems: Perils and remedies through biosensors and bioremediation. Environmental Pollution, 2018, 241, 212-233.	3.7	124
9	Acute Hepatopancreatic Necrosis Disease (AHPND): Virulence, Pathogenesis and Mitigation Strategies in Shrimp Aquaculture. Toxins, 2021, 13, 524.	1.5	84
10	Microplastics removal efficiency of drinking water treatment plant with pulse clarifier. Journal of Hazardous Materials, 2021, 413, 125347.	6.5	79
11	Dynamic interactions between peroxidase-mimic silver NanoZymes and chlorpyrifos-specific aptamers enable highly-specific pesticide sensing in river water. Analytica Chimica Acta, 2019, 1083, 157-165.	2.6	73
12	Identification and pathogenicity of Plesiomonas shigelloides in Silver Carp. Aquaculture, 2018, 493, 314-318.	1.7	58
13	Metagenomic Analysis Reveals Bacterial and Fungal Diversity and Their Bioremediation Potential From Sediments of River Ganga and Yamuna in India. Frontiers in Microbiology, 2020, 11, 556136.	1.5	44
14	Molecular characterization and pathogenicity of a virulent Acinetobacter baumannii associated with mortality of farmed Indian Major Carp Labeo rohita (Hamilton 1822). Aquaculture, 2017, 471, 157-162.	1.7	40
15	Synthetic pyrethroids (Type II) and freshwater fish culture: Perils and mitigations. International Aquatic Research, 2015, 7, 163-191.	1.5	39
16	Structural insights into the MDP binding and CARD-CARD interaction in zebrafish (Danio rerio) NOD2: a molecular dynamics approach. Journal of Molecular Recognition, 2014, 27, 260-275.	1.1	38
17	Acute Phase Proteins and their Potential Role as an Indicator for Fish Health and in Diagnosis of Fish Diseases. Protein and Peptide Letters, 2016, 24, 78-89.	0.4	38
18	Isolation, identification and characterization of Klebsiella pneumoniae from infected farmed Indian Major Carp Labeo rohita (Hamilton 1822) in West Bengal, India. Aquaculture, 2018, 482, 111-116.	1.7	36

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19	Breeding and culture status of Hilsa (TenualosaÂilisha, Ham. 1822) in South Asia: a review. Reviews in Aquaculture, 2018, 10, 96-110.	4.6	33
20	Metagenomic study focusing on antibiotic resistance genes from the sediments of River Yamuna. Gene, 2020, 758, 144951.	1.0	33
21	Structural Models of Zebrafish (Danio rerio) NOD1 and NOD2 NACHT Domains Suggest Differential ATP Binding Orientations: Insights from Computational Modeling, Docking and Molecular Dynamics Simulations. PLoS ONE, 2015, 10, e0121415.	1.1	31
22	Plastisphere community assemblage of aquatic environment: plastic-microbe interaction, role in degradation and characterization technologies. Environmental Microbiomes, 2022, 17, .	2.2	31
23	A conformational analysis of mouse Nalp3 domain structures by molecular dynamics simulations, and binding site analysis. Molecular BioSystems, 2014, 10, 1104-1116.	2.9	27
24	Structural Characterization of Open Reading Frame-Encoded Functional Genes from Tilapia Lake Virus (TiLV). Molecular Biotechnology, 2019, 61, 945-957.	1.3	26
25	Biofloc Microbiome With Bioremediation and Health Benefits. Frontiers in Microbiology, 2021, 12, 741164.	1.5	26
26	Metagenome analysis from the sediment of river Ganga and Yamuna: In search of beneficial microbiome. PLoS ONE, 2020, 15, e0239594.	1.1	24
27	Structural and functional investigation of zebrafish (Danio rerio) NOD1 leucine rich repeat domain and its interaction with iE-DAP. Molecular BioSystems, 2014, 10, 2942-2953.	2.9	23
28	Fatty Acid Profile of Indian Shad Tenualosa ilisha Oil and its Dietary Significance. The National Academy of Sciences, India, 2012, 35, 263-269.	0.8	22
29	Deep insights into the mode of ATP-binding mechanism in Zebrafish cyclin-dependent protein kinase-like 1 (zCDKL1): A molecular dynamics approach. Journal of Molecular Graphics and Modelling, 2018, 81, 175-183.	1.3	19
30	Rapid detection of Salmonella contamination in seafoods using multiplex PCR. Brazilian Journal of Microbiology, 2019, 50, 807-816.	0.8	16
31	Taxonomic profiling and functional gene annotation of microbial communities in sediment of river Ganga at Kanpur, India: insights from whole-genome metagenomics study. Environmental Science and Pollution Research, 2022, 29, 82309-82323.	2.7	15
32	Isolation and characterization of marine bacteria from East Coast of India: functional screening for salt stress tolerance. Heliyon, 2019, 5, e01869.	1.4	14
33	Molecular cloning, GTP recognition mechanism and tissue-specific expression profiling of myxovirus resistance (Mx) protein in Labeo rohita (Hamilton) after Poly I:C induction. Scientific Reports, 2019, 9, 3956.	1.6	14
34	Molecular characterization and structural dynamics of Aquaporin1 from walking catfish in lipid bilayers. International Journal of Biological Macromolecules, 2022, 196, 86-97.	3.6	14
35	Molecular identification and pathogenicity study of virulent Citrobacter freundii associated with mortality of farmed Labeo rohita (Hamilton 1822), in India. Aquaculture, 2022, 547, 737437.	1.7	13
36	Comparative efficacy of different inducing agents on breeding performance of a near threatened cyprinid Osteobrama belangeri in captivity. Aquaculture Reports, 2016, 4, 178-182.	0.7	12

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37	Prevalence of microsporidian parasite, Enterocytozoon hepatopenaei in cultured Pacific White shrimp, Litopenaeus vannamei (Boone, 1931) in West Bengal, East Coast of India. Aquaculture International, 2019, 27, 609-620.	1.1	12
38	Structural bioinformatics insights into ATP binding mechanism in zebrafish (Danio rerio) cyclinâ€dependent kinaseâ€like 5 (zCDKL5) protein. Journal of Cellular Biochemistry, 2019, 120, 9437-9447.	1.2	12
39	Community structure and function of microbiomes in polluted stretches of river Yamuna in New Delhi, India, using shotgun metagenomics. Environmental Science and Pollution Research, 2022, 29, 71311-71325.	2.7	12
40	Insights into the aquaporin 4 of zebrafish (Danio rerio) through evolutionary analysis, molecular modeling and structural dynamics. Gene Reports, 2018, 11, 101-109.	0.4	11
41	Population structure and genetic diversity of Indian Major Carp,Labeo rohita(Hamilton, 1822) from three phylo-geographically isolated riverine ecosystems of India as revealed by mtDNA cytochrome b region sequences. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2018, 29, 199-205.	0.7	11
42	Molecular characterization, constitutive expression and GTP binding mechanism of Cirrhinus mrigala (Hamilton, 1822) Myxovirus resistance (Mx) protein. International Journal of Biological Macromolecules, 2019, 136, 1258-1272.	3.6	11
43	Dietary therapeutic dose of oxytetracycline negatively influences the antioxidant capacity and immune-related genes expression in Nile tilapia Oreochromis niloticus (L.). Environmental Toxicology and Pharmacology, 2021, 87, 103685.	2.0	11
44	Association pattern between dimensions of fish and otolith to expedite morphometric variations of three geographically isolated stocks of Tenualosa ilisha (Hamilton, 1822) from diverse ecosystems. Indian Journal of Fisheries, 2019, 66, .	0.3	11
45	Exploring microbiome from sediments of River Ganga using a metagenomic approach. Aquatic Ecosystem Health and Management, 2021, 24, 12-22.	0.3	11
46	Elucidating the molecular interaction of Zebrafish (Danio rerio) peptidoglycan recognition protein 2 with diaminopimelic acid and lysine type peptidoglycans using in silico approaches. Journal of Biomolecular Structure and Dynamics, 2020, 38, 3687-3699.	2.0	10
47	De novo transcriptome analysis of halotolerant bacterium Staphylococcus sp. strain P-TSB-70 isolated from East coast of India: In search of salt stress tolerant genes. PLoS ONE, 2020, 15, e0228199.	1.1	10
48	Insights into structure and dynamics of extracellular domain of Toll-like receptor 5 in Cirrhinus mrigala (mrigala): A molecular dynamics simulation approach. PLoS ONE, 2021, 16, e0245358.	1.1	10
49	The population structure and genetic divergence ofLabeo gonius(Hamilton, 1822) analyzed through mitochondrial DNA cytochrome b gene for conservation in Indian waters. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2018, 29, 543-551.	0.7	9
50	In Silico Structural Studies and Molecular Docking Analysis of Delta6-desaturase in HUFA Biosynthetic Pathway. Animal Biotechnology, 2018, 29, 161-173.	0.7	9
51	De novo whole transcriptome profiling of Edwardsiella tarda isolated from infected fish (Labeo) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.0	9
52	Metagenomics study in aquatic resource management: Recent trends, applied methodologies and future needs. Gene Reports, 2021, 25, 101372.	0.4	9
53	Genetic stock structure ofOsteobrama belangeri(Valenciennes, 1844) in Indian region. Mitochondrial DNA, 2016, 27, 232-237.	0.6	8
54	Genetic diversity and multiple antibiotic resistance index study of bacterial pathogen, Klebsiella pneumoniae strains isolated from diseased Indian major carps. Folia Microbiologica, 2019, 64, 875-887.	1.1	8

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55	Structural bioinformatics insights into the CARDâ€CARD interaction mediated by the mitochondrial antiviralâ€signaling protein of black carp. Journal of Cellular Biochemistry, 2019, 120, 12534-12543.	1.2	8
56	Computational characterization and molecular dynamics simulation of the thermostable direct hemolysin-related hemolysin (TRH) amplified from Vibrio parahaemolyticus. Microbial Pathogenesis, 2019, 127, 172-182.	1.3	8
57	Status of Hilsa Fishery in Hooghly-Bhagirathi River System and Associated Coastal Waters of Northern Bay of Bengal. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2020, 90, 647-656.	0.4	8
58	Molecular identification and pathogenicity study of virulent Vibrio cholerae non O1/O139 serotype associated with mortality of farmed Labeo rohita (Hamilton, 1822), in India. Aquaculture, 2022, 547, 737529.	1.7	8
59	Genetic differentiation in Indian Major Carp,Cirrhinus mrigala(Hamilton, 1822) from Indian Rivers, as revealed by direct sequencing analysis of mitochondrial Cytochromebregion. Mitochondrial DNA, 2015, 26, 334-336.	0.6	7
60	Genetic variation in wild and hatchery population of Catla catla (Hamilton, 1822) analyzed through mtDNA cytochrome b region. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2018, 29, 126-131.	0.7	7
61	Macroporous open cell polyester amphigel using citric acid and <scp>PEO</scp>: Solvent absorption, thermal behavior, and slow release of pesticide. Journal of Applied Polymer Science, 2021, 138, 49723.	1.3	7
62	Environmental parameters and stocking density influence growth, feed utilization and economics of butter catfish, Ompok bimaculatus (Bloch, 1794) production in floating net cages in a large tropical reservoir, India. Environmental Science and Pollution Research, 2021, 28, 59720-59730.	2.7	7
63	Virulence factor genes and comparative pathogenicity study of tdh, trh and tlh positive Vibrio parahaemolyticus strains isolated from Whiteleg shrimp, Litopenaeus vannamei (Boone, 1931) in India. Infection, Genetics and Evolution, 2021, 95, 105083.	1.0	7
64	Pollution assessment and mapping of potentially toxic elements (PTE) distribution in urban wastewater fed natural wetland, Kolkata, India. Environmental Science and Pollution Research, 2022, , .	2.7	7
65	Functional Screening and Molecular Characterization of Halophilic and Halotolerant Bacteria by 16S rRNA Gene Sequence Analysis. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2015, 85, 957-964.	0.4	6
66	Trophic fingerprinting of Chilika, a Ramsar site and the largest lagoon of Asia using Ecopath. Regional Studies in Marine Science, 2020, 37, 101328.	0.4	6
67	Population genetic structure of Indian shad, Tenualosa ilisha inferred from variation in mitochondrial DNA sequences. Journal of Environmental Biology, 2015, 36, 1193-7.	0.2	6
68	Molecular characterization and genetic diversity study of Vibrio parahaemolyticus isolated from aquaculture farms in India. Aquaculture, 2019, 509, 104-111.	1.7	5
69	On-spot biosensing device for organophosphate pesticide residue detection in fruits and vegetables. Current Research in Biotechnology, 2021, 3, 308-316.	1.9	5
70	Epigenetics: Perspectives and Potential in Aquaculture. , 2021, , 133-150.		5
71	Trh positive strain of Vibrio parahaemolyticus induce immunity by modulating MAPK pathway: A molecular pathogenic insight in immune-related gene regulation. Microbial Pathogenesis, 2022, 164, 105436.	1.3	4
72	The complete mitochondrial genome of the Asian stinging catfish, Heteropneustes fossilis (Siluriformes, Heteropneustidae) and its comparison with other related fish species. Mitochondrial DNA Part B: Resources, 2016, 1, 804-805.	0.2	3

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73	The complete mitochondrial genome of the Anabas testudineus (Perciformes, Anabantidae) and its comparison with other related fish species. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2017, 28, 161-162.	0.7	3
74	Complete mitochondrial genome sequence of Indian medium carp,Labeo gonius(Hamilton, 1822) and its comparison with other related carp species. Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis, 2017, 28, 7-8.	0.7	3
75	Stock structure analysis of the endemic fish, Barbodes carnaticus (Jerdon 1849), for conservation in a biodiversity hotspot. Environmental Science and Pollution Research, 2021, 28, 55277-55289.	2.7	3
76	First record of pouched octopus, Cistopus platinoidus in a tropical estuary. Estuarine, Coastal and Shelf Science, 2021, 262, 107598.	0.9	3
77	Effect of Methyl Testosterone (17?-MT) on the phenotype, bioindices and gonads of adult male dwarf Gourami (Colisa lalia). Emirates Journal of Food and Agriculture, 2014, 26, 459.	1.0	3
78	Impact assessment of an invasive macrophyte community on ecosystem properties: A Mass Balance Approach for Chilika lagoon, India. Ecological Informatics, 2022, 69, 101592.	2.3	3
79	Genetic Diversity of Asian Sea Bass, Lates calcarifer (Bloch) Populations in India Revealed by Randomly Amplified Polymorphic DNA. Proceedings of the National Academy of Sciences India Section B - Biological Sciences, 2014, 84, 1013-1019.	0.4	2
80	Draft Genome Sequence of the Extremely Halophilic Bacterium Halomonas salina Strain CIFRI1, Isolated from the East Coast of India. Genome Announcements, 2015, 3, .	0.8	2
81	The complete mitochondrial genome sequence of Osteobrama belangeri (Cyprinidae) and its comparison with other related Cypriniformes fish species. Mitochondrial DNA Part B: Resources, 2019, 4, 2330-2331.	0.2	2
82	Fish Freshness Assessment using NIR spectroscopy. , 2020, , .		2
83	Genetic differentiation and phylogenetic relationship of 11 Asian Sisorinae genera (Siluriformes:) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Mapping, Sequencing, and Analysis, 2020, 31, 35-41.	0.7	2
84	Role of Modern Biotechnology in the Era of River Water Pollution. , 2022, , 63-79.		2
85	Disease Diagnostic Tools for Health Management in Aquaculture. , 2021, , 363-382.		2
86	Big data application in fisheries with special reference to inland fisheries sector in India. Indian Journal of Fisheries, 2021, 68, .	0.3	2
87	Development of Linseed Oil Based Quartz Crystal Microbalance Sensor for Detection of Trimethylamine. , 2020, , .		1
88	Length-weight relationship and relative condition factor of five Labeo spp. from river Cauvery in India. Indian Journal of Fisheries, 2019, 66, .	0.3	1
89	RNA Interference and Its Potential Applications in Aquatic Animal Health Management. , 2021, , 25-41.		1
90	Spatio-temporal changes in ecology and fisheries in a tropical large Indian reservoir: insights from a long-term data series for sustainable development. Environmental Science and Pollution Research, 2022, 29, 37854-37866.	2.7	1

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91	Nutritional Biotechnology to Augment Aquaculture Production. , 2021, , 231-243.		1
92	Detection of novel key residues of MnSOD enzyme and its role in salinity management across species. Journal of Genetics, 2015, 94, 8-16.	0.4	0
93	Identification of aquaporin-1a gene transcript in Cyprinus carpio (Linnaeus, 1758) and its expression during reproduction. Inland Fisheries Society of India Journal, 2020, 52, 021.	0.2	0
94	Observation on maximum attainable weight of Mystus cavasius (Hamilton, 1822). Inland Fisheries Society of India Journal, 2020, 52, 225.	0.2	0
95	Metagenome analysis from the sediment of river Ganga and Yamuna: In search of beneficial microbiome. , 2020, 15, e0239594.		0
96	Metagenome analysis from the sediment of river Ganga and Yamuna: In search of beneficial microbiome. , 2020, 15, e0239594.		0
97	Metagenome analysis from the sediment of river Ganga and Yamuna: In search of beneficial microbiome. , 2020, 15, e0239594.		0
98	Metagenome analysis from the sediment of river Ganga and Yamuna: In search of beneficial microbiome. , 2020, 15, e0239594.		0