

Shovonlal Roy

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

1,653
citations

331670

21
h-index

302126

39
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45
all docs

45
docs citations

45
times ranked

2332
citing authors

#	ARTICLE	IF	CITATIONS
1	Incorporating environmental variability in a spatially-explicit individual-based model of European sea bass. <i>Ecological Modelling</i> , 2022, 466, 109878.	2.5	7
2	Algorithmic procedure for retrieving calorific contents of marine phytoplankton from space. <i>MethodsX</i> , 2021, 8, 101579.	1.6	0
3	SEASIM-NEAM: A Spatially-Explicit Agent-based SIMulator of North East Atlantic Mackerel population dynamics. <i>MethodsX</i> , 2020, 7, 101044.	1.6	3
4	Assessing the sublethal impacts of anthropogenic stressors on fish: An energy budget approach. <i>Fish and Fisheries</i> , 2020, 21, 1034-1045.	5.3	14
5	Perturbed Biology and Physics Signatures in a 1-D Ocean Biogeochemical Model Ensemble. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	3
6	Potential Consequences of Climate and Management Scenarios for the Northeast Atlantic Mackerel Fishery. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	10
7	A spatially explicit individual-based model to support management of commercial and recreational fisheries for European sea bass <i>Dicentrarchus labrax</i> . <i>Ecological Modelling</i> , 2020, 431, 109179.	2.5	5
8	An Ocean-Colour Time Series for Use in Climate Studies: The Experience of the Ocean-Colour Climate Change Initiative (OC-CCI). <i>Sensors</i> , 2019, 19, 4285.	3.8	239
9	Insect pollination as an agronomic input: Strategies for oilseed rape production. <i>Journal of Applied Ecology</i> , 2018, 55, 2834-2842.	4.0	36
10	Distributions of phytoplankton carbohydrate, protein and lipid in the world oceans from satellite ocean colour. <i>ISME Journal</i> , 2018, 12, 1457-1472.	9.8	23
11	Allelopathy prevents competitive exclusion and promotes phytoplankton biodiversity. <i>Oikos</i> , 2018, 127, 85-98.	2.7	34
12	Satellite remote sensing of ecosystem functions: opportunities, challenges and way forward. <i>Remote Sensing in Ecology and Conservation</i> , 2018, 4, 71-93.	4.3	176
13	A perturbed biogeochemistry model ensemble evaluated against in situ and satellite observations. <i>Biogeosciences</i> , 2018, 15, 6685-6711.	3.3	5
14	A general approach to incorporating spatial and temporal variation in individual-based models of fish populations with application to Atlantic mackerel. <i>Ecological Modelling</i> , 2018, 382, 9-17.	2.5	32
15	Size-partitioned phytoplankton carbon and carbon-to-chlorophyll ratio from ocean colour by an absorption-based bio-optical algorithm. <i>Remote Sensing of Environment</i> , 2017, 194, 177-189.	11.0	26
16	Inter-comparison of phytoplankton functional type phenology metrics derived from ocean color algorithms and Earth System Models. <i>Remote Sensing of Environment</i> , 2017, 190, 162-177.	11.0	45
17	Remote Sensing in Ecology and Conservation: three years on. <i>Remote Sensing in Ecology and Conservation</i> , 2017, 3, 53-56.	4.3	20
18	Out of Amazonia: Late-Holocene climate change and the Tupi-Guarani trans-continental expansion. <i>Holocene</i> , 2017, 27, 967-975.	1.7	32

#	ARTICLE	IF	CITATIONS
19	A Consumer's Guide to Satellite Remote Sensing of Multiple Phytoplankton Groups in the Global Ocean. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	115
20	Intercomparison of Ocean Color Algorithms for Picophytoplankton Carbon in the Ocean. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	19
21	Lake water acidification and temperature have a lagged effect on the population dynamics of <i>Isoetes echinospora</i> via offspring recruitment. <i>Ecological Indicators</i> , 2016, 70, 420-430.	6.3	13
22	Seasonal changes in water quality and Sargassum biomass in southwest Australia. <i>Marine Ecology - Progress Series</i> , 2016, 551, 63-79.	1.9	22
23	Phytoplankton-zooplankton dynamics in the "presence" or "absence" of toxic phytoplankton. <i>Applied Mathematics and Computation</i> , 2013, 225, 102-116.	2.2	8
24	The global distribution of phytoplankton size spectrum and size classes from their light-absorption spectra derived from satellite data. <i>Remote Sensing of Environment</i> , 2013, 139, 185-197.	11.0	64
25	Sequential variations of phytoplankton growth and mortality in an NPZ model: A remote-sensing-based assessment. <i>Journal of Marine Systems</i> , 2012, 92, 16-29.	2.1	19
26	Retrieval of phytoplankton size from bio-optical measurements: theory and applications. <i>Journal of the Royal Society Interface</i> , 2011, 8, 650-660.	3.4	28
27	Modelling the time-evolution of phytoplankton size spectra from satellite remote sensing. <i>ICES Journal of Marine Science</i> , 2011, 68, 719-728.	2.5	9
28	The coevolution of two phytoplankton species on a single resource: Allelopathy as a pseudo-mixotrophy. <i>Theoretical Population Biology</i> , 2009, 75, 68-75.	1.1	43
29	The phenology of phytoplankton blooms: Ecosystem indicators from remote sensing. <i>Ecological Modelling</i> , 2009, 220, 3057-3069.	2.5	94
30	Do phytoplankton communities evolve through a self-regulatory abundance-diversity relationship?. <i>BioSystems</i> , 2009, 95, 160-165.	2.0	8
31	Effect of disease-selective predation on prey infected by contact and external sources. <i>BioSystems</i> , 2009, 95, 188-199.	2.0	17
32	Spatial Interaction Among Nontoxic Phytoplankton, Toxic Phytoplankton, and Zooplankton: Emergence in Space and Time. <i>Journal of Biological Physics</i> , 2008, 34, 459-474.	1.5	24
33	Modeling migratory grazing of zooplankton on toxic and non-toxic phytoplankton. <i>Applied Mathematics and Computation</i> , 2008, 197, 659-671.	2.2	16
34	Nutrient-limited toxin production and the dynamics of two phytoplankton in culture media: A mathematical model. <i>Ecological Modelling</i> , 2008, 213, 191-201.	2.5	50
35	TOXIN-ALLOPATHY AMONG PHYTOPLANKTON SPECIES PREVENTS COMPETITIVE EXCLUSION. <i>Journal of Biological Systems</i> , 2007, 15, 73-93.	1.4	33
36	Towards a resolution of "the paradox of the plankton": A brief overview of the proposed mechanisms. <i>Ecological Complexity</i> , 2007, 4, 26-33.	2.9	128

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37	Enrichment and ecosystem stability: Effect of toxic food. <i>BioSystems</i> , 2007, 90, 151-160.	2.0	18
38	Interaction among Non-toxic Phytoplankton, Toxic Phytoplankton and Zooplankton: Inferences from Field Observations. <i>Journal of Biological Physics</i> , 2007, 33, 1-17.	1.5	32
39	The stability of ecosystems: A brief overview of the paradox of enrichment. <i>Journal of Biosciences</i> , 2007, 32, 421-428.	1.1	78
40	Enrichment and stability: A phenomenological coupling of energy value and carrying capacity. <i>BioSystems</i> , 2007, 90, 371-378.	2.0	5
41	Competing Effects of Toxin-Producing Phytoplankton on Overall Plankton Populations in the Bay of Bengal. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 2303-2320.	1.9	62
42	Role of nutrient bound of prey on the dynamics of predator-mediated competitive-coexistence. <i>BioSystems</i> , 2005, 82, 143-153.	2.0	10
43	Disease-selective predation may lead to prey extinction. <i>Mathematical Methods in the Applied Sciences</i> , 2005, 28, 1257-1267.	2.3	18