Shovonlal Roy

List of Publications by Year
in descending order

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43 papers	1,653 citations	331670 21 h-index	302126 39 g-index
45 all docs	45 docs citations	45 times ranked	2332 citing authors

#	Article	IF	Citations
1	An Ocean-Colour Time Series for Use in Climate Studies: The Experience of the Ocean-Colour Climate Change Initiative (OC-CCI). Sensors, 2019, 19, 4285.	3.8	239
2	Satellite remote sensing of ecosystem functions: opportunities, challenges and way forward. Remote Sensing in Ecology and Conservation, 2018, 4, 71-93.	4.3	176
3	Towards a resolution of â€˜the paradox of the planktonâ€™: A brief overview of the proposed mechanisms. Ecological Complexity, 2007, 4, 26-33.	2.9	128
4	A Consumer's Guide to Satellite Remote Sensing of Multiple Phytoplankton Groups in the Global Ocean. Frontiers in Marine Science, 2017, 4, .	2.5	115
5	The phenology of phytoplankton blooms: Ecosystem indicators from remote sensing. Ecological Modelling, 2009, 220, 3057-3069.	2.5	94
6	The stability of ecosystems: A brief overview of the paradox of enrichment. Journal of Biosciences, 2007, 32, 421-428.	1.1	78
7	The global distribution of phytoplankton size spectrum and size classes from their light-absorption spectra derived from satellite data. Remote Sensing of Environment, 2013, 139, 185-197.	11.0	64
8	Competing Effects of Toxin-Producing Phytoplankton on Overall Plankton Populations in the Bay of Bengal. Bulletin of Mathematical Biology, 2006, 68, 2303-2320.	1.9	62
9	Nutrient-limited toxin production and the dynamics of two phytoplankton in culture media: A mathematical model. Ecological Modelling, 2008, 213, 191-201.	2.5	50
10	Inter-comparison of phytoplankton functional type phenology metrics derived from ocean color algorithms and Earth System Models. Remote Sensing of Environment, 2017, 190, 162-177.	11.0	45
11	The coevolution of two phytoplankton species on a single resource: Allelopathy as a pseudo-mixotrophy. Theoretical Population Biology, 2009, 75, 68-75.	1.1	43
12	Insect pollination as an agronomic input: Strategies for oilseed rape production. Journal of Applied Ecology, 2018, 55, 2834-2842.	4.0	36
13	Allelopathy prevents competitive exclusion and promotes phytoplankton biodiversity. Oikos, 2018, 127, 85-98.	2.7	34
14	TOXIN-ALLELOPATHY AMONG PHYTOPLANKTON SPECIES PREVENTS COMPETITIVE EXCLUSION. Journal of Biological Systems, 2007, 15, 73-93.	1.4	33
15	Interaction among Non-toxic Phytoplankton, Toxic Phytoplankton and Zooplankton: Inferences from Field Observations. Journal of Biological Physics, 2007, 33, 1-17.	1.5	32
16	Out of Amazonia: Late-Holocene climate change and the Tupiâ€“Guarani trans-continental expansion. Holocene, 2017, 27, 967-975.	1.7	32
17	A general approach to incorporating spatial and temporal variation in individual-based models of fish populations with application to Atlantic mackerel. Ecological Modelling, 2018, 382, 9-17.	2.5	32
18	Retrieval of phytoplankton size from bio-optical measurements: theory and applications. Journal of the Royal Society Interface, 2011, 8, 650-660.	3.4	28

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19	Size-partitioned phytoplankton carbon and carbon-to-chlorophyll ratio from ocean colour by an absorption-based bio-optical algorithm. Remote Sensing of Environment, 2017, 194, 177-189.	11.0	26
20	Spatial Interaction Among Nontoxic Phytoplankton, Toxic Phytoplankton, and Zooplankton: Emergence in Space and Time. Journal of Biological Physics, 2008, 34, 459-474.	1.5	24
21	Distributions of phytoplankton carbohydrate, protein and lipid in the world oceans from satellite ocean colour. ISME Journal, 2018, 12, 1457-1472.	9.8	23
22	Seasonal changes in water quality and Sargassum biomass in southwest Australia. Marine Ecology - Progress Series, 2016, 551, 63-79.	1.9	22
23	Remote Sensing in Ecology and Conservation: three years on. Remote Sensing in Ecology and Conservation, 2017, 3, 53-56.	4.3	20
24	Sequential variations of phytoplankton growth and mortality in an NPZ model: A remote-sensing-based assessment. Journal of Marine Systems, 2012, 92, 16-29.	2.1	19
25	Intercomparison of Ocean Color Algorithms for Picophytoplankton Carbon in the Ocean. Frontiers in Marine Science, 2017, 4, .	2.5	19
26	Disease-selective predation may lead to prey extinction. Mathematical Methods in the Applied Sciences, 2005, 28, 1257-1267.	2.3	18
27	Enrichment and ecosystem stability: Effect of toxic food. BioSystems, 2007, 90, 151-160.	2.0	18
28	Effect of disease-selective predation on prey infected by contact and external sources. BioSystems, 2009, 95, 188-199.	2.0	17
29	Modeling migratory grazing of zooplankton on toxic and non-toxic phytoplankton. Applied Mathematics and Computation, 2008, 197, 659-671.	2.2	16
30	Assessing the sublethal impacts of anthropogenic stressors on fish: An energyâ€budget approach. Fish and Fisheries, 2020, 21, 1034-1045.	5.3	14
31	Lake water acidification and temperature have a lagged effect on the population dynamics of IsoÃ«tes echinospora via offspring recruitment. Ecological Indicators, 2016, 70, 420-430.	6.3	13
32	Role of nutrient bound of prey on the dynamics of predator-mediated competitive-coexistence. BioSystems, 2005, 82, 143-153.	2.0	10
33	Potential Consequences of Climate and Management Scenarios for the Northeast Atlantic Mackerel Fishery. Frontiers in Marine Science, 2020, 7, .	2.5	10
34	Modelling the time-evolution of phytoplankton size spectra from satellite remote sensing. ICES Journal of Marine Science, 2011, 68, 719-728.	2.5	9
35	Do phytoplankton communities evolve through a self-regulatory abundanceâ€“diversity relationship?. BioSystems, 2009, 95, 160-165.	2.0	8
36	Phytoplanktonâ€“zooplankton dynamics in the â€˜presenceâ€™ or â€˜absenceâ€™ of toxic phytoplankton. Applied Mathematics and Computation, 2013, 225, 102-116.	2.2	8

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37	Incorporating environmental variability in a spatially-explicit individual-based model of European sea bassâœ°. Ecological Modelling, 2022, 466, 109878.	2.5	7
38	Enrichment and stability: A phenomenological coupling of energy value and carrying capacity. BioSystems, 2007, 90, 371-378.	2.0	5
39	A perturbed biogeochemistry model ensemble evaluated against in situ and satellite observations. Biogeosciences, 2018, 15, 6685-6711.	3.3	5
40	A spatially explicit individual-based model to support management of commercial and recreational fisheries for European sea bass Dicentrarchus labrax. Ecological Modelling, 2020, 431, 109179.	2.5	5
41	SEASIM-NEAM: A Spatially-Explicit Agent-based SIMulator of North East Atlantic Mackerel population dynamics. MethodsX, 2020, 7, 101044.	1.6	3
42	Perturbed Biology and Physics Signatures in a 1-D Ocean Biogeochemical Model Ensemble. Frontiers in Marine Science, 2020, 7, .	2.5	3
43	Algorithmic procedure for retrieving calorific contents of marine phytoplankton from space. MethodsX, 2021, 8, 101579.	1.6	0