Saktipada Ghorai

List of Publications by Year
in descending order

31	727	516710 16	526287 27
papers	citations	h-index	g-index

31	31	31	394
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development and stability of gyrotactic plumes in bioconvection. Journal of Fluid Mechanics, 1999, 400, 1-31.	3.4	98
2	Periodic arrays of gyrotactic plumes in bioconvection. Physics of Fluids, 2000, 12, 5-22.	4.0	65
3	Wavelengths of Gyrotactic Plumes in Bioconvection. Bulletin of Mathematical Biology, 2000, 62, 429-450.	1.9	59
4	Study of cross-diffusion induced Turing patterns in a ratio-dependent prey-predator model via amplitude equations. Applied Mathematical Modelling, 2018, 55, 383-399.	4.2	45
5	Penetrative phototactic bioconvection. Physics of Fluids, 2005, 17, 074101.	4.0	38
6	Gyrotactic bioconvection in three dimensions. Physics of Fluids, 2007, 19, 054107.	4.0	38
7	Allee Effect in Prey versus Hunting Cooperation on Predator â€" Enhancement of Stable Coexistence. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1950081.	1.7	32
8	Bioconvection in a suspension of isotropically scattering phototactic algae. Physics of Fluids, 2010, 22, .	4.0	30
9	Detection of turing patterns in a three species food chain model via amplitude equation. Communications in Nonlinear Science and Numerical Simulation, 2019, 69, 219-236.	3.3	28
10	Allee effect in preyâ€™s growth reduces the dynamical complexity in prey-predator model with generalist predator. Applied Mathematical Modelling, 2021, 91, 768-790.	4.2	28
11	Complex dynamics of a three species prey-predator model with intraguild predation. Ecological Complexity, 2018, 34, 9-22.	2.9	27
12	Analysis of a Preyâ€“Predator Model with Non-local Interaction in the Prey Population. Bulletin of Mathematical Biology, 2018, 80, 906-925.	1.9	26
13	Bioconvection in an anisotropic scattering suspension of phototactic algae. European Journal of Mechanics, B/Fluids, 2013, 41, 81-93.	2.5	25
14	Axisymmetric Bioconvection in a Cylinder. Journal of Theoretical Biology, 2002, 219, 137-152.	1.7	20
15	Rich Bifurcation Structure of Preyâ€“Predator Model Induced by the Allee Effect in the Growth of Generalist Predator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050084.	1.7	20
16	Spectral element methods for parabolic problems. Journal of Computational and Applied Mathematics, 2007, 203, 461-486.	2.0	18
17	Effect of kernels on spatio-temporal patterns of a non-local prey-predator model. Mathematical Biosciences, 2019, 310, 96-107.	1.9	14
18	3-D Multi-scale air pollution modelling using adaptive unstructured meshes. Environmental Modelling and Software, 2000, 15, 681-692.	4.5	12

#	Article	IF	Citations
19	Penetrative phototactic bioconvection in an isotropic scattering suspension. Physics of Fluids, 2013, 25, .	4.0	12
20	Effects of density dependent cross-diffusion on the chaotic patterns in a ratio-dependent prey-predator model. Ecological Complexity, 2018, 36, 276-289.	2.9	12
21	Spatiotemporal pattern formation in 2D prey-predator system with nonlocal intraspecific competition. Communications in Nonlinear Science and Numerical Simulation, 2021, 93, 105478.	3.3	12
22	Bifurcation analysis of the predatorâ€“prey model with the Allee effect in the predator. Journal of Mathematical Biology, 2022, 84, 7.	1.9	12
23	Effects of boundary conditions on pattern formation in a nonlocal preyâ€“predator model. Applied Mathematical Modelling, 2020, 79, 809-823.	4.2	11
24	Approximated Spiral and Target Patterns in Bazykinâ€™s Preyâ€“Predator Model: Multiscale Perturbation Analysis. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750038.	1.7	10
25	Linear stability analysis of gyrotactic plumes. Physics of Fluids, 2009, 21, .	4.0	9
26	3D adaptive unstructured meshes for air pollution modelling. Management of Environmental Quality, 1999, 10, 267-275.	0.4	7
27	Gyrotactic trapping: A numerical study. Physics of Fluids, 2016, 28, 041901.	4.0	6
28	Wavelength Selection in Gyrotactic Bioconvection. Bulletin of Mathematical Biology, 2015, 77, 1166-1184.	1.9	5
29	Spatio-Temporal Pattern Formation in Hollingâ€“Tanner Type Model with Nonlocal Consumption of Resources. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2019, 29, 1930002.	1.7	4
30	Space-Time Coupled Least-Squares Spectral Element Methods for Parabolic Problems*. International Journal for Computational Methods in Engineering Science and Mechanics, 2019, 20, 358-371.	2.1	3
31	Cross-diffusion induced Turing and non-Turing patterns in Rosenzweigâ€“MacArthur model. Letters in Biomathematics, 0, , 1-22.	0.1	1