Mainul Haque

List of Publications by Year
in descending order

46 papers	1,541 citations	257450 24 h-index	315739 38 g-index
46 all docs	46 docs citations	46 times ranked	859 citing authors

#	Article	IF	Citations
1	Dynamics of adding variable prey refuge and an Allee effect to a predatorâ€“prey model. AEJ - Alexandria Engineering Journal, 2022, 61, 4175-4188.	6.4	16
2	Modelling the dynamics of Pine Wilt Disease with asymptomatic carriers and optimal control. Scientific Reports, 2020, 10, 11412.	3.3	6
3	Management of primary blast lung injury: a comparison of airway pressure release versus low tidal volume ventilation. Intensive Care Medicine Experimental, 2020, 8, 26.	1.9	11
4	Mathematical modelling of a microRNA-regulated gene network in <i>Caenorhabditis elegans</i>. Mathematical Biosciences and Engineering, 2020, 17, 2881-2904.	1.9	1
5	Primary blast lung injury simulator: a new computerised model. Journal of the Royal Army Medical Corps, 2019, 165, 45-50.	0.8	5
6	Bifurcation analysis in a predatorâ€“prey system with a functional response increasing in both predator and prey densities. Nonlinear Dynamics, 2018, 94, 1639-1656.	5.2	31
7	Hemodynamic effects of lung recruitment maneuvers in acute respiratory distress syndrome. BMC Pulmonary Medicine, 2017, 17, 34.	2.0	32
8	Dynamics of a three species ratio-dependent food chain model with intra-specific competition within the top predator. Computers in Biology and Medicine, 2017, 85, 63-74.	7.0	28
9	Creating virtual ARDS patients. , 2016, 2016, 2729-2732.		4
10	High PEEP in acute respiratory distress syndrome: quantitative evaluation between improved arterial oxygenation and decreased oxygen delivery. British Journal of Anaesthesia, 2016, 117, 650-658.	3.4	41
11	Patterns formations in a diffusive ratio-dependent predatorâ€“prey model of interacting populations. Physica A: Statistical Mechanics and Its Applications, 2016, 461, 374-383.	2.6	18
12	Development of an integrated model of cardiovascular and pulmonary physiology for the evaluation of mechanical ventilation strategies. , 2015, 2015, 5319-22.		8
13	Evaluation of lung recruitment maneuvers in acute respiratory distress syndrome using computer simulation. Critical Care, 2015, 19, 8.	5.8	32
14	Dynamics of a predatorâ€“prey model with disease in the predator. Mathematical Methods in the Applied Sciences, 2014, 37, 2429-2450.	2.3	26
15	Can computer simulators accurately represent the pathophysiology of individual COPD patients?. Intensive Care Medicine Experimental, 2014, 2, 23.	1.9	19
16	Persistence and global stability of Bazykin predatorâ€“prey model with Beddingtonâ€“DeAngelis response function. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 189-209.	3.3	38
17	Effect of a functional response-dependent prey refuge in a predatorâ€“prey model. Ecological Complexity, 2014, 20, 248-256.	2.9	29
18	Comparing functional responses in predator-infected eco-epidemics models. BioSystems, 2013, 114, 98-117.	2.0	19

#	Article	IF	Citations
19	Study of a tri-trophic prey-dependent food chain model of interacting populations. Mathematical Biosciences, 2013, 246, 55-71.	1.9	26
20	Existence of complex patterns in the Beddingtonâ€“DeAngelis predatorâ€“prey model. Mathematical Biosciences, 2012, 239, 179-190.	1.9	42
21	Ratio-dependent predatorâ€“prey model of interacting population with delay effect. Nonlinear Dynamics, 2012, 69, 817-836.	5.2	25
22	Spatial patterns of a predator-prey model with cross diffusion. Nonlinear Dynamics, 2012, 69, 1631-1638.	5.2	75
23	The spatial patterns through diffusion-driven instability in a predatorâ€“prey model. Applied Mathematical Modelling, 2012, 36, 1825-1841.	4.2	40
24	Transgenic nematodes as biosensors for metal stress in soil pore water samples. Ecotoxicology, 2012, 21, 439-455.	2.4	47
25	Effect of delay in a Lotkaâ€“Volterra type predatorâ€“prey model with a transmissible disease in the predator species. Mathematical Biosciences, 2011, 234, 47-57.	1.9	49
26	A detailed study of the Beddingtonâ€“DeAngelis predatorâ€“prey model. Mathematical Biosciences, 2011, 234, 1-16.	1.9	89
27	Global stability and persistence in LGâ€“Holling type II diseased predator ecosystems. Journal of Biological Physics, 2011, 37, 91-106.	1.5	31
28	A Leslie-Gower Holling-type II ecoepidemic model. Journal of Applied Mathematics and Computing, 2011, 35, 263-280.	2.5	32
29	Impulsive perturbations in a periodic delay differential equation model of plankton allelopathy. Nonlinear Analysis: Real World Applications, 2010, 11, 432-445.	1.7	28
30	A predatorâ€“prey model with disease in the predator species only. Nonlinear Analysis: Real World Applications, 2010, 11, 2224-2236.	1.7	78
31	When a predator avoids infected prey: a model-based theoretical study. Mathematical Medicine and Biology, 2010, 27, 75-94.	1.2	43
32	An ecoepidemiological predatorâ€prey model with standard disease incidence. Mathematical Methods in the Applied Sciences, 2009, 32, 875-898.	2.3	61
33	Ratio-Dependent Predator-Prey Models of Interacting Populations. Bulletin of Mathematical Biology, 2009, 71, 430-452.	1.9	119
34	An impulsive predatorâ€“prey model with communicable disease in the prey species only. Nonlinear Analysis: Real World Applications, 2009, 10, 3098-3111.	1.7	22
35	Analysis of a Leslieâ€“Gower-type preyâ€“predator model with periodic impulsive perturbations. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 3412-3423.	3.3	17
36	The Stress-Response Network in Animals: Proposals to Develop a Predictive Mathematical Model. The Open Toxicology Journal, 2009, 2, 71-76.	1.0	12

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37	A Ratio-Dependent Predator-Prey Model with Logistic Growth for the Predator Population. , 2008, , .		2
38	EFFECT OF PARASITIC INFECTION IN THE LESLIEâ€"GOWER PREDATORâ€"PREY MODEL. Journal of Biological Systems, 2008, 16, 425-444.	1.4	12
39	PULSE VACCINATION IN THE PERIODIC INFECTION RATE SIR EPIDEMIC MODEL. International Journal of Biomathematics, 2008, 01, 409-432.	2.9	32
40	Role of transmissible disease in an infected prey-dependent predatorÂâ€"Âprey system. Mathematical and Computer Modelling of Dynamical Systems, 2007, 13, 163-178.	2.2	20
41	The SIS Epidemic Model with Impulsive Effects. , 2007, , .		2
42	A predatorâ€"prey model with disease in the prey species only. Mathematical Methods in the Applied Sciences, 2007, 30, 911-929.	2.3	81
43	An ecoepidemiological model with disease in predator: the ratio-dependent case. Mathematical Methods in the Applied Sciences, 2007, 30, 1791-1809.	2.3	84
44	The role of transmissible diseases in the Hollingâ€"Tanner predatorâ€"prey model. Theoretical Population Biology, 2006, 70, 273-288.	1.1	97
45	GLOBAL STABILITY ANALYSIS OF AN ECO-EPIDEMIOLOGICAL MODEL OF THE SALTON SEA. Journal of Biological Systems, 2006, 14, 373-385.	1.4	11
46	Trends in Tourism Accommodation Investment in Australia. Advances in Hospitality and Leisure, 0, , 215-238.	0.2	0