Feng-Bin Wang

List of Publications by Year
in descending order

48 papers	865 citations	567281 15 h-index	501196 28 g-index
48 all docs	48 docs citations	48 times ranked	337 citing authors

#	Article	IF	Citations
1	Varying total population enhances disease persistence: Qualitative analysis on a diffusive SIS epidemic model. Journal of Differential Equations, 2017, 262, 885-913.	2.2	120
2	Threshold dynamics of an infective disease model with a fixed latent period and non-local infections. Journal of Mathematical Biology, 2012, 65, 1387-1410.	1.9	79
3	Dynamics of a Periodically Pulsed Bio-Reactor Model With a Hydraulic Storage Zone. Journal of Dynamics and Differential Equations, 2011, 23, 817-842.	1.9	69
4	Global dynamics of a PDE in-host viral model. Applicable Analysis, 2014, 93, 2312-2329.	1.3	56
5	Global dynamics of zooplankton and harmful algae in flowing habitats. Journal of Differential Equations, 2013, 255, 265-297.	2.2	50
6	On a system of reactionâ€"diffusion equations arising from competition with internal storage in an unstirred chemostat. Journal of Differential Equations, 2010, 248, 2470-2496.	2.2	42
7	Modeling malaria and typhoid fever co-infection dynamics. Mathematical Biosciences, 2015, 264, 128-144.	1.9	40
8	Avian influenza dynamics in wild birds with bird mobility and spatial heterogeneous environment. Discrete and Continuous Dynamical Systems - Series B, 2012, 17, 2829-2848.	0.9	37
9	Dynamics of a host-pathogen system on a bounded spatial domain. Communications on Pure and Applied Analysis, 2015, 14, 2535-2560.	0.8	33
10	Competition and coexistence in flowing habitats with a hydraulic storage zone. Mathematical Biosciences, 2009, 222, 42-52.	1.9	28
11	Impact of bacterial hyperinfectivity on cholera epidemics in a spatially heterogeneous environment. Journal of Mathematical Analysis and Applications, 2019, 480, 123407.	1.0	23
12	A system of partial differential equations modeling the competition for two complementary resources in flowing habitats. Journal of Differential Equations, 2010, 249, 2866-2888.	2.2	19
13	Competition between microorganisms for a single limiting resource with cell quota structure and spatial variation. Journal of Mathematical Biology, 2012, 64, 713-743.	1.9	19
14	Spatial dynamics of a dengue transmission model in time-space periodic environment. Journal of Differential Equations, 2020, 269, 149-175.	2.2	18
15	Dynamics of a dengue fever transmission model with crowding effect in human population and spatial variation. Discrete and Continuous Dynamical Systems - Series B, 2013, 18, 147-161.	0.9	16
16	Monotone abstract non-densely defined Cauchy problems applied to age structured population dynamic models. Journal of Mathematical Analysis and Applications, 2019, 479, 450-481.	1.0	15
17	A reactionâ€"diffusionâ€"advection model of harmful algae growth with toxin degradation. Journal of Differential Equations, 2015, 259, 3178-3201.	2.2	14
18	Global dynamics of a West Nile virus model in a spatially variable habitat. Nonlinear Analysis: Real World Applications, 2018, 41, 313-333.	1.7	14

#	Article	IF	Citations
19	Global dynamics of a nonlocal reactionâ€“diffusion system modeling the West Nile virus transmission. Nonlinear Analysis: Real World Applications, 2019, 46, 352-373.	1.7	13
20	On a reactionâ€“diffusion system modeling the dengue transmission with nonlocal infections and crowding effects. Applied Mathematics and Computation, 2014, 248, 184-194.	2.2	12
21	Single species growth consuming inorganic carbon with internal storage in a poorly mixed habitat. Journal of Mathematical Biology, 2017, 75, 1775-1825.	1.9	12
22	Dynamics of a benthic-drift model for two competitive species. Journal of Mathematical Analysis and Applications, 2018, 462, 840-860.	1.0	12
23	A West Nile Virus Transmission Model with Periodic Incubation Periods. SIAM Journal on Applied Dynamical Systems, 2019, 18, 1498-1535.	1.6	12
24	Competition for one nutrient with internal storage and toxin mortality. Mathematical Biosciences, 2013, 244, 82-90.	1.9	10
25	A reactionâ€“diffusion model of harmful algae and zooplankton in an ecosystem. Journal of Mathematical Analysis and Applications, 2017, 451, 659-677.	1.0	10
26	Competition and allelopathy with resource storage: Two resources. Journal of Theoretical Biology, 2014, 351, 9-24.	1.7	9
27	A general multipatch cholera model in periodic environments. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 1647.	0.9	9
28	On a nonlocal reactionâ€“diffusionâ€“advection system modelling the growth of phytoplankton with cell quota structure. Journal of Differential Equations, 2015, 259, 5353-5378.	2.2	8
29	Dynamics of a model of microbial competition with internal nutrient storage in a flowing habitat. Applied Mathematics and Computation, 2013, 225, 747-764.	2.2	7
30	Steady-state solutions of a reactionâ€“diffusion system arising from intraguild predation and internal storage. Journal of Differential Equations, 2019, 266, 8459-8491.	2.2	7
31	Further studies of a reaction-diffusion system for an unstirred chemostat with internal storage. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 3169-3189.	0.9	7
32	Reactionâ€“diffusion equations of two species competing for two complementary resources with internal storage. Journal of Differential Equations, 2011, 251, 918-940.	2.2	6
33	A pivotal eigenvalue problem in river ecology. Journal of Differential Equations, 2015, 259, 2280-2316.	2.2	6
34	A PDE system modeling the competition and inhibition of harmful algae with seasonal variations. Nonlinear Analysis: Real World Applications, 2015, 25, 258-275.	1.7	4
35	Effects of periodic intake of drugs of abuse (morphine) on HIV dynamics: Mathematical model and analysis. Mathematical Biosciences, 2020, 326, 108395.	1.9	4
36	Growth of single phytoplankton species with internal storage in a water column. Discrete and Continuous Dynamical Systems - Series B, 2015, 21, 607-620.	0.9	4

#	ARTICLE	IF	CITATIONS
37	Mathematical modeling and analysis of harmful algal blooms in flowing habitats. Mathematical Biosciences and Engineering, 2019, 16, 6728-6752.	1.9	4
38	Parasitic plasmid-host dynamics and host competition in flowing habitats. Mathematical Biosciences, 2019, 311, 109-124.	1.9	3
39	Competition for one nutrient with recycling and allelopathy in an unstirred chemostat. Discrete and Continuous Dynamical Systems - Series B, 2015, 20, 2129-2155.	0.9	3
40	A reactionâ€“advectionâ€“diffusion system modeling the competition for two complementary resources with seasonality in a flowing habitat. Journal of Mathematical Analysis and Applications, 2015, 428, 145-164.	1.0	2
41	Dynamics of harmful algae with seasonal temperature variations in the cove-main lake. Discrete and Continuous Dynamical Systems - Series B, 2015, 21, 313-335.	0.9	2
42	Mathematical analysis of an HBV model with antibody and spatial heterogeneity. Mathematical Biosciences and Engineering, 2020, 17, 1820-1837.	1.9	2
43	A Survey of Mathematical Models with Variable Quotas. Taiwanese Journal of Mathematics, 2019, 23, .	0.4	1
44	Dynamics and steady-state analysis of an unstirred chemostat model with internal storage and toxin mortality. Nonlinear Analysis: Real World Applications, 2020, 52, 103044.	1.7	1
45	The dynamics of a zooplanktonâ€“fish system in aquatic habitats. Nonlinear Analysis: Real World Applications, 2020, 53, 103075.	1.7	1
46	Positively invariant subset for non-densely defined Cauchy problems. Journal of Mathematical Analysis and Applications, 2021, 494, 124600.	1.0	1
47	Dynamics of phytoplankton species competition for light and nutrient with recycling in a water column. Discrete and Continuous Dynamical Systems - Series B, 2021, 26, 2115-2132.	0.9	1
48	A diffusive virus model with a fixed intracellular delay and combined drug treatments. Journal of Mathematical Biology, 2021, 83, 19.	1.9	0