

# Meng Fan

## List of Publications by Year in descending order

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79  
papers

2,588  
citations

218381

26  
h-index

197535

49  
g-index

79  
all docs

79  
docs citations

79  
times ranked

1415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of a nonautonomous predator-prey system with the Beddington-DeAngelis functional response. <i>Journal of Mathematical Analysis and Applications</i> , 2004, 295, 15-39.	0.5	165
2	Dynamics of an SIR epidemic model with limited medical resources revisited. <i>Nonlinear Analysis: Real World Applications</i> , 2012, 13, 312-324.	0.9	165
3	Effect of delay in diagnosis on transmission of COVID-19. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 2725-2740.	1.0	165
4	Periodic solutions of a discrete time nonautonomous ratio-dependent predator-prey system. <i>Mathematical and Computer Modelling</i> , 2002, 35, 951-961.	2.0	164
5	Optimal harvesting policy for single population with periodic coefficients. <i>Mathematical Biosciences</i> , 1998, 152, 165-178.	0.9	119
6	Global stability of an SEIS epidemic model with recruitment and a varying total population size. <i>Mathematical Biosciences</i> , 2001, 170, 199-208.	0.9	115
7	Existence of periodic solutions in predator-prey and competition dynamic systems. <i>Nonlinear Analysis: Real World Applications</i> , 2006, 7, 1193-1204.	0.9	101
8	Existence and global attractivity of positive periodic solutions of periodic n-species Lotka-Volterra competition systems with several deviating arguments. <i>Mathematical Biosciences</i> , 1999, 160, 47-61.	0.9	97
9	Permanence of Stochastic Lotka-Volterra Systems. <i>Journal of Nonlinear Science</i> , 2017, 27, 425-452.	1.0	95
10	Periodicity in a Delayed Ratio-Dependent Predator-Prey System. <i>Journal of Mathematical Analysis and Applications</i> , 2001, 262, 179-190.	0.5	92
11	Global periodic solutions of a generalized n-species Gilpin-Ayala competition model. <i>Computers and Mathematics With Applications</i> , 2000, 40, 1141-1151.	1.4	91
12	Dynamics of a class of nonautonomous semi-ratio-dependent predator-prey systems with functional responses. <i>Journal of Mathematical Analysis and Applications</i> , 2003, 278, 443-471.	0.5	75
13	Dynamics of a non-autonomous ratio-dependent predator-prey system. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2003, 133, 97-118.	0.8	74
14	Periodicity and Stability in Periodic n-Species Lotka-Volterra Competition System with Feedback Controls and Deviating Arguments. <i>Acta Mathematica Sinica, English Series</i> , 2003, 19, 801-822.	0.2	63
15	Periodicity of scalar dynamic equations and applications to population models. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 330, 1-9.	0.5	57
16	The dynamics of temperature and light on the growth of phytoplankton. <i>Journal of Theoretical Biology</i> , 2015, 385, 8-19.	0.8	48
17	Existence and roughness of exponential dichotomies of linear dynamic equations on time scales. <i>Computers and Mathematics With Applications</i> , 2010, 59, 2658-2675.	1.4	47
18	Global Existence of Positive Periodic Solutions of Periodic Predator-Prey System with Infinite Delays. <i>Journal of Mathematical Analysis and Applications</i> , 2001, 262, 1-11.	0.5	45

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19	Periodic solutions of functional dynamic equations with infinite delay. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2008, 68, 1226-1245.	0.6	42
20	Stabilization of stochastic coupled systems with Markovian switching via feedback control based on discrete-time state observations. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 247-265.	2.1	42
21	Fangcang shelter hospitals during the COVID-19 epidemic, Wuhan, China. <i>Bulletin of the World Health Organization</i> , 2020, 98, 830-841D.	1.5	40
22	Spatially complex neighboring relationships among grassland plant species as an effective mechanism of defense against herbivory. <i>Oecologia</i> , 2010, 164, 193-200.	0.9	39
23	Cats protecting birds revisited. <i>Bulletin of Mathematical Biology</i> , 2005, 67, 1081-1106.	0.9	37
24	Periodic solutions for scalar functional differential equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2005, 62, 1157-1181.	0.6	36
25	Weighted Stepanov-like pseudo almost automorphy and applications. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2012, 75, 2378-2397.	0.6	32
26	Dynamics of a three-species food chain model with fear effect. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 99, 105809.	1.7	29
27	Transmission dynamics and optimal control of brucellosis in Inner Mongolia of China. <i>Mathematical Biosciences and Engineering</i> , 2017, 15, 543-567.	1.0	29
28	Periodic solutions of a class of nonautonomous discrete time semi-ratio-dependent predator-prey systems. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2004, 4, 563-574.	0.5	28
29	Rabbits killing birds revisited. <i>Mathematical Biosciences</i> , 2006, 203, 100-123.	0.9	24
30	Existence of multiple positive periodic solutions for functional differential equations. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 325, 1378-1389.	0.5	24
31	Dynamics of a multigroup epidemiological model with group-targeted vaccination strategies. <i>Journal of Theoretical Biology</i> , 2011, 291, 56-64.	0.8	23
32	Periodic Solutions of Nonautonomous Discrete Predator-Prey System of Lotka-Volterra Type. <i>Applicable Analysis</i> , 2002, 81, 801-812.	0.6	22
33	Globally asymptotic stability in two periodic delayed competitive systems. <i>Applied Mathematics and Computation</i> , 2008, 197, 271-287.	1.4	21
34	Global dynamics in a stoichiometric food chain model with two limiting nutrients. <i>Mathematical Biosciences</i> , 2017, 289, 9-19.	0.9	20
35	Dynamics for a non-autonomous predator-prey system with generalist predator. <i>Journal of Mathematical Analysis and Applications</i> , 2020, 485, 123820.	0.5	19
36	Periodicity in a Food-limited Population Model with Toxicants and Time Delays. <i>Acta Mathematicae Applicatae Sinica</i> , 2002, 18, 309-314.	0.4	18

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37	Study on a non-autonomous predator-prey system with Beddington-DeAngelis functional response. <i>Mathematical and Computer Modelling</i> , 2008, 48, 1755-1764.	2.0	16
38	Periodic solution of single population models on time scales. <i>Mathematical and Computer Modelling</i> , 2010, 52, 515-521.	2.0	16
39	Dynamics of a stoichiometric discrete producer-grazer model. <i>Journal of Difference Equations and Applications</i> , 2005, 11, 347-364.	0.7	14
40	Modeling Refuge Effect of Submerged Macrophytes in Lake System. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 662-694.	0.9	14
41	Impact of disposing stray dogs on risk assessment and control of Echinococcosis in Inner Mongolia. <i>Mathematical Biosciences</i> , 2018, 299, 85-96.	0.9	13
42	Dynamics of a nutrient-phytoplankton model with random phytoplankton mortality. <i>Journal of Theoretical Biology</i> , 2020, 488, 110119.	0.8	12
43	Dynamic modeling and optimal control of cystic echinococcosis. <i>Infectious Diseases of Poverty</i> , 2021, 10, 38.	1.5	12
44	Modeling the outbreak and control of African swine fever virus in large-scale pig farms. <i>Journal of Theoretical Biology</i> , 2021, 526, 110798.	0.8	12
45	Effect of seasonal changing temperature on the growth of phytoplankton. <i>Mathematical Biosciences and Engineering</i> , 2017, 14, 1091-1117.	1.0	12
46	Periodic solutions of convex neutral functional differential equations. <i>Tohoku Mathematical Journal</i> , 2000, 52, 47.	0.4	11
47	Stability analysis for stochastic complex-valued delayed networks with multiple nonlinear links and impulsive effects. <i>Nonlinear Dynamics</i> , 2019, 97, 1959-1976.	2.7	11
48	Periodicity in a class of non-autonomous scalar equations with deviating arguments and applications to population models. <i>Dynamical Systems</i> , 2004, 19, 279-301.	0.2	10
49	Necessary and sufficient criteria for the existence of exponential dichotomy on time scales. <i>Computers and Mathematics With Applications</i> , 2010, 60, 2387-2398.	1.4	10
50	Global asymptotic stability for predator-prey systems whose prey receives time-variation of the environment. <i>Proceedings of the American Mathematical Society</i> , 2011, 139, 3475-3475.	0.4	9
51	PERIODICITY IN MUTUALISM SYSTEMS WITH IMPULSE. <i>Taiwanese Journal of Mathematics</i> , 2006, 10, 723.	0.2	8
52	Invariant Manifolds for Impulsive Equations and Nonuniform Polynomial Dichotomies. <i>Journal of Statistical Physics</i> , 2010, 141, 179-200.	0.5	8
53	Nonuniform $(h, k, \frac{1}{4}, \frac{1}{2})$ -dichotomy with applications to nonautonomous dynamical systems. <i>Journal of Mathematical Analysis and Applications</i> , 2017, 452, 505-551.	0.5	8
54	Modeling and Evaluation of the Joint Prevention and Control Mechanism for Curbing COVID-19 in Wuhan. <i>Bulletin of Mathematical Biology</i> , 2022, 84, 28.	0.9	8

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55	DYNAMICS OF A DISCRETE STOICHIOMETRIC TWO PREDATORS ONE PREY MODEL. <i>Journal of Biological Systems</i> , 2010, 18, 649-667.	0.5	7
56	Dynamic Model for Life History of Scyphozoa. <i>PLoS ONE</i> , 2015, 10, e0130669.	1.1	7
57	Adaptive evolution of foraging-related trait in intraguild predation system. <i>Mathematical Biosciences</i> , 2016, 274, 1-11.	0.9	7
58	The dynamics of a stoichiometric plant-herbivore model and its discrete analog. <i>Mathematical Biosciences and Engineering</i> , 2007, 4, 29-46.	1.0	7
59	Nonlinear perturbations of nonuniform exponential dichotomy on measure chains. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2012, 75, 670-683.	0.6	5
60	Parameter Dependence of Stable Manifolds for Delay Equations with Polynomial Dichotomies. <i>Journal of Dynamics and Differential Equations</i> , 2012, 24, 101-118.	1.0	5
61	Pseudo almost automorphy of semilinear fractional differential equations in Banach Spaces. <i>Fractional Calculus and Applied Analysis</i> , 2016, 19, 741-764.	1.2	4
62	Stability of impulsive coupled systems on networks with both multicoupling structure and time-varying delays. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 2364-2384.	2.1	4
63	Mechanisms for stable coexistence in an insect community. <i>Mathematical Biosciences and Engineering</i> , 2010, 7, 603-622.	1.0	4
64	Effects of nutrient enrichment on coevolution of a stoichiometric producer-grazer system. <i>Mathematical Biosciences and Engineering</i> , 2014, 11, 841-875.	1.0	4
65	Stable manifolds for delay equations and parameter dependence. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2012, 75, 5824-5835.	0.6	3
66	Dynamics of Predator-Prey Metapopulations with Allee Effects. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 1727-1748.	0.9	3
67	Adaptive evolution of body size subject to indirect effect in trophic cascade system. <i>BioSystems</i> , 2017, 159, 23-35.	0.9	3
68	Stoichiometric Modeling of Aboveground-Belowground Interaction of Herbaceous Plant and Two Herbivores. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 107.	0.9	3
69	Population dynamics of the giant jellyfish <i>Nemopilema nomurai</i> with age structure. <i>Ecological Modelling</i> , 2021, 441, 109412.	1.2	3
70	Microdisplacement Mechanism of Polymer Flooding and Distributional Characteristics of Remaining Oil in Heavy-Oil Reservoirs. <i>Chemistry and Technology of Fuels and Oils</i> , 2021, 57, 358.	0.2	3
71	Parameter dependence of stable manifolds for nonuniform $(\hat{\mu}, \hat{1}/2)$ -dichotomies. <i>Acta Mathematica Sinica, English Series</i> , 2013, 29, 1111-1130.	0.2	2
72	Semiotic open complex systems: Processes and behaviors. <i>Complexity</i> , 2016, 21, 388-396.	0.9	2

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73	Stoichiometric modeling of aboveground-belowground interaction of herbaceous plant. <i>Mathematical Biosciences and Engineering</i> , 2019, 16, 25-55.	1.0	2
74	A Massera Theorem for Quasi-Linear Partial Differential Equations of First Order. <i>Rocky Mountain Journal of Mathematics</i> , 2006, 36, 1715.	0.2	1
75	Global threshold dynamics of SIQS epidemic model in time fluctuating environment. <i>International Journal of Biomathematics</i> , 2017, 10, 1750060.	1.5	1
76	EFFECT OF TEMPERATURE ON ADAPTIVE EVOLUTION OF PHYTOPLANKTON CELL SIZE. <i>Journal of Applied Analysis and Computation</i> , 2020, 10, 2644-2658.	0.2	1
77	Preface for the Special Issue on Dynamical Models of Biology and Medicine. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2380.	1.3	0
78	A Massera type criterion for almost automorphy of nonautonomous boundary differential equations. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , 2011, , 1-13.	0.2	0
79	NONLINEAR PERTURBATIONS FOR LINEAR NONAUTONOMOUS IMPULSIVE DIFFERENTIAL EQUATIONS AND NONUNIFORM $(\ H, K, \hat{\mu}, \hat{1}/2\ )$ -DICHOTOMY. <i>Journal of Applied Analysis and Computation</i> , 2018, 8, 1085-1107.	0.2	0