Bin Liu

List of Publications by Year
in descending order

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67	700	623734	713466
papers	citations	14 h-index	21 g-index

67	67	67	207
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Global dynamics for an attraction-repulsion chemotaxis model with logistic source. Journal of Differential Equations, 2020, 268, 4320-4373.	2.2	41
2	Global existence and asymptotic behavior in a two-species chemotaxis system with logistic source. Journal of Differential Equations, 2020, 269, 1484-1520.	2.2	31
3	A maximum principle for fully coupled stochastic control systems of mean-field type. Journal of Mathematical Analysis and Applications, 2014, 415, 902-930.	1.0	29
4	Global boundedness and asymptotic behavior in a two-species chemotaxis-competition system with two signals. Nonlinear Analysis: Real World Applications, 2019, 48, 288-325.	1.7	29
5	Global existence of bounded solutions for a quasilinear chemotaxis system with logistic source. Nonlinear Analysis: Real World Applications, 2019, 46, 545-582.	1.7	29
6	Global boundedness and asymptotic behavior in a quasilinear attractionâ€“repulsion chemotaxis model with nonlinear signal production and logistic-type source. Mathematical Models and Methods in Applied Sciences, 2020, 30, 2619-2689.	3.3	27
7	Monotone iterative solutions for nonlinear boundary value problems of fractional differential equation with deviating arguments. Applied Mathematics and Computation, 2013, 222, 72-81.	2.2	26
8	Solving the inverse problem of an SIS epidemic reactionâ€“diffusion model by optimal control methods. Computers and Mathematics With Applications, 2015, 70, 805-819.	2.7	26
9	Global solvability and asymptotic behavior in a two-species chemotaxis system with Lotkaâ€“Volterra competitive kinetics. Mathematical Models and Methods in Applied Sciences, 2021, 31, 941-978.	3.3	25
10	Global boundedness of solutions to a chemotaxis-fluid system with singular sensitivity and logistic source. Communications on Pure and Applied Analysis, 2020, 19, 3843-3883.	0.8	21
11	Optimal control problem for stochastic evolution equations in Hilbert spaces. International Journal of Control, 2010, 83, 1771-1784.	1.9	20
12	Maximum principle for partially observed risk-sensitive optimal control problems of mean-field type. European Journal of Control, 2016, 32, 16-23.	2.6	18
13	Asymptotic stability in a quasilinear chemotaxis-haptotaxis model with general logistic source and nonlinear signal production. Journal of Differential Equations, 2020, 269, 10839-10918.	2.2	18
14	Linearâ€Quadratic Optimal Control Problem for Partially Observed Forwardâ€Backward Stochastic Differential Equations of Meanâ€Field Type. Asian Journal of Control, 2016, 18, 2146-2157.	3.0	15
15	Optimal control and pattern formation for a haptotaxis model of solid tumor invasion. Journal of the Franklin Institute, 2019, 356, 9364-9406.	3.4	15
16	Optimal control problem for a general reaction-diffusion eco-epidemiological model with disease in prey. Applied Mathematical Modelling, 2020, 88, 1-20.	4.2	15
17	Controllability Results for Fractional Functional Differential Equations with Nondense Domain. Numerical Functional Analysis and Optimization, 2014, 35, 443-460.	1.4	14
18	Exact controllability and continuous dependence of fractional neutral integro-differential equations with state-dependent delay. Acta Mathematica Scientia, 2017, 37, 235-258.	1.0	14

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19	Optimal Control Problem for Riskâ€Sensitive Meanâ€Field Stochastic Delay Differential Equation with Partial Information. Asian Journal of Control, 2017, 19, 2097-2115.	3.0	14
20	Optimal control strategies for a new ecosystem governed by reactionâ€“diffusion equations. Journal of Mathematical Analysis and Applications, 2018, 467, 270-291.	1.0	14
21	Discreteâ€time meanâ€field stochastic linearâ€quadratic optimal control problem with finite horizon. Asian Journal of Control, 2021, 23, 979-989.	3.0	14
22	Infinite horizon optimal control problem of mean-field backward stochastic delay differential equation under partial information. European Journal of Control, 2017, 36, 43-50.	2.6	13
23	Global existence and convergence to steady states for a predator-prey model with both predator- and prey-taxis. Discrete and Continuous Dynamical Systems, 2022, 42, 759.	0.9	12
24	Global solvability and asymptotic stabilization in a three-dimensional Kellerâ€“Segelâ€“Navierâ€“Stokes system with indirect signal production. Mathematical Models and Methods in Applied Sciences, 2021, 31, 2091-2163.	3.3	12
25	Boundedness and asymptotic behavior in a Keller-Segel(-Navier)-Stokes system with indirect signal production. Journal of Differential Equations, 2022, 314, 201-250.	2.2	12
26	Optimal control problem for an ecosystem with two competing preys and one predator. Journal of Mathematical Analysis and Applications, 2015, 424, 201-220.	1.0	11
27	Global boundedness of classical solutions to a two species cancer invasion haptotaxis model with tissue remodeling. Journal of Mathematical Analysis and Applications, 2020, 483, 123583.	1.0	10
28	Boundedness in a Chemotaxis System Under a Critical Parameter Condition. Bulletin of the Brazilian Mathematical Society, 2021, 52, 281-289.	0.8	10
29	Optimal control of mean-field jump-diffusion systems with noisy memory. International Journal of Control, 2019, 92, 816-827.	1.9	9
30	Global solution for a general cross-diffusion two-competitive-predator and one-prey system with predator-taxis. Communications in Nonlinear Science and Numerical Simulation, 2020, 89, 105336.	3.3	9
31	The existence and uniqueness of the solution for nonlinear Kolmogorov equations. Journal of Differential Equations, 2012, 253, 2873-2915.	2.2	8
32	Monotone iterative solutions for nonlinear fractional differential systems with deviating arguments. Applied Mathematics and Computation, 2015, 262, 1-14.	2.2	8
33	A New Result for Global Solvability of a Two Species Cancer Invasion Haptotaxis Model with Tissue Remodeling. SIAM Journal on Mathematical Analysis, 2022, 54, 1-35.	1.9	8
34	Global Solvability and Optimal Control to a Haptotaxis Cancer Invasion Model with Two Cancer Cell Species. Applied Mathematics and Optimization, 2020, 84, 2379.	1.6	7
35	Global classical solvability in a threeâ€dimensional haptotaxis system modeling oncolytic virotherapy. Mathematical Methods in the Applied Sciences, 2021, 44, 9275-9291.	2.3	7
36	Singular Linear Quadratic Optimal Control Problem for Stochastic Nonregular Descriptor Systems. Asian Journal of Control, 2018, 20, 1782-1792.	3.0	6

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37	Optimal control problem for a general reactionâ€“diffusion tumorâ€“immune system with chemotherapy. Journal of the Franklin Institute, 2021, 358, 448-473.	3.4	6
38	Global weak solutions in a three-dimensional Keller-Segel-Navier-Stokes system with indirect signal production. Journal of Differential Equations, 2022, 333, 436-488.	2.2	6
39	Properties of value function and existence of viscosity solution of HJB equation for stochastic boundary control problems. Journal of the Franklin Institute, 2011, 348, 2108-2127.	3.4	5
40	Optimal control of backward stochastic heat equation with Neumann boundary control and noise. Stochastics, 2013, 85, 532-558.	1.1	5
41	Optimal distributed controls of a class of nonlinear dispersive equations with cubic nonlinearity. Nonlinear Analysis: Theory, Methods & Applications, 2015, 122, 23-42.	1.1	5
42	Near-optimal control for a singularly perturbed linear stochastic singular system with Markovian jumping parameters. European Journal of Control, 2019, 50, 88-95.	2.6	5
43	Linear Quadratic Nash Differential Games of Stochastic Singular Systems with Markovian Jumps. Acta Mathematica Vietnamica, 2020, 45, 651-660.	0.4	5
44	Dynamic Analysis and Optimal Control of a Fractional Order Singular Leslie-Gower Prey-Predator Model. Acta Mathematica Scientia, 2020, 40, 1525-1552.	1.0	5
45	Boundedness and asymptotic behavior in a predator-prey model with indirect pursuit-evasion interaction. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 4855.	0.9	5
46	A maximum principle for fully coupled controlled forwardâ€“backward stochastic difference systems of mean-field type. Advances in Difference Equations, 2020, 2020, .	3.5	5
47	Global generalized solutions to the forager-exploiter model with logistic growth. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 5255.	0.9	5
48	Monotone Iterative Solutions for Nonlinear Boundary Value Problems of Fractional Differential Equation. Abstract and Applied Analysis, 2013, 2013, 1-8.	0.7	4
49	Global existence and uniqueness of positive solutions and optimal control for a novel model of pest control. International Journal of Control, 2017, 90, 627-639.	1.9	4
50	Verification Theory and Approximate Optimal Harvesting Strategy for a Stochastic Competitive Ecosystem Subject to LÂ©vy Noise. Journal of Dynamical and Control Systems, 2017, 23, 753-777.	0.8	4
51	Boundedness and stabilization in the 3D minimal attractionâ€“repulsion chemotaxis model with logistic source. Zeitschrift Fur Angewandte Mathematik Und Physik, 2022, 73, 1.	1.4	4
52	Boundedness in a quasilinear two-species chemotaxis system with nonlinear sensitivity and nonlinear signal secretion. Journal of Differential Equations, 2022, 320, 206-246.	2.2	4
53	Existence results for impulsive neutral stochastic evolution inclusions in Hilbert space. Acta Mathematica Sinica, English Series, 2011, 27, 1405-1418.	0.6	3
54	State-constrained optimal control problems governed by coupled nonlinear wave equations with memory. International Journal of Control, 2015, 88, 1174-1188.	1.9	3

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55	Necessary and Sufficient Nearâ€Optimal Conditions for Meanâ€Field Singular Stochastic Controls. Asian Journal of Control, 2015, 17, 1209-1221.	3.0	3
56	Existence of Solution for Generalized Coupled Differential Riccati Equation. Asian Journal of Control, 2019, 21, 2407-2414.	3.0	3
57	Necessary conditions of fractional optimal control problems with state constraints in the sense of Riemannâ€Liouville. Asian Journal of Control, 2020, 22, 1494-1512.	3.0	3
58	First-order and second-order necessary optimality conditions concerning components for discrete-time stochastic systems. International Journal of Control, 2022, 95, 2695-2709.	1.9	3
59	Forwardâ€“backward linearâ€“quadratic optimal control and stabilization problems for discrete-time stochastic delayed system. IFAC Journal of Systems and Control, 2020, 13, 100093.	1.7	2
60	Global boundedness for a $ mathit{oldsymbol{N}} $-dimensional two species cancer invasion haptotaxis model with tissue remodeling. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 311.	0.9	2
61	Second-order Taylor expansion for backward doubly stochastic control system. International Journal of Control, 2013, 86, 942-952.	1.9	1
62	The global attractor for a viscous weakly dissipative generalized two-component Î¼-Hunter-Saxton system. Acta Mathematica Scientia, 2018, 38, 651-672.	1.0	1
63	Large time behavior of solutions to a quasilinear attractionâ€“repulsion chemotaxis model with nonlinear secretion. Journal of Mathematical Physics, 2021, 62, 091510.	1.1	1
64	First-order and second-order necessary optimality conditions for discrete-time stochastic systems with delay. IMA Journal of Mathematical Control and Information, 0, , .	1.7	1
65	A Random SchrÃ¶dinger Equation with Time-Oscillating Nonlinearity and Linear Dissipation/Gain. Bulletin of the Malaysian Mathematical Sciences Society, 2018, 41, 265-286.	0.9	0
66	Solvability and optimal stabilization controls of discrete-time mean-field stochastic system with infinite horizon. Advances in Difference Equations, 2020, 2020, .	3.5	0
67	Optimal control problem for a general reaction-diffusion tumor-immune interaction system of mixed immunotherapy and chemotherapy. European Journal of Control, 2022, , 100645.	2.6	0