

Zhongwei Shen

List of Publications by Year in descending order

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papers

1,898
citations

361413
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times ranked

412
citing authors

#	ARTICLE	IF	CITATIONS
1	Parabolicâ€“Elliptic Chemotaxis Model with Spaceâ€“Time Dependent Logistic Sources on \mathbb{R}^N . III: Transition Fronts. Journal of Dynamics and Differential Equations, 2022, 34, 209-238.	1.9	1
2	Forced Waves of Parabolicâ€“Elliptic Kellerâ€“Segel Models in Shifting Environments. Journal of Dynamics and Differential Equations, 2022, 34, 3057-3088.	1.9	4
3	Global dynamics of a diffusive competition model with habitat degradation. Journal of Mathematical Biology, 2022, 84, 18.	1.9	1
4	Propagation phenomena for time-space periodic monotone semiflows and applications to cooperative systems in multi-dimensional media. Journal of Functional Analysis, 2022, 282, 109415.	1.4	7
5	Spreading speeds of a parabolic-parabolic chemotaxis model with logistic source on \mathbb{R}^N . Discrete and Continuous Dynamical Systems - Series S, 2022, .	1.1	1
6	Population dynamics under climate change: persistence criterion and effects of fluctuations. Journal of Mathematical Biology, 2022, 84, 30.	1.9	5
7	Long Time Behavior of Random and Nonautonomous Fisherâ€“KPP Equations: Part Iâ€“Stability of Equilibria and Spreading Speeds. Journal of Dynamics and Differential Equations, 2021, 33, 1035-1070.	1.9	5
8	Convergence to Periodic Probability Solutions in Fokker-Planck Equations. SIAM Journal on Mathematical Analysis, 2021, 53, 1958-1992.	1.9	7
9	Nonlocal dispersal equations with almost periodic dependence. I. Principal spectral theory. Journal of Differential Equations, 2021, 295, 1-38.	2.2	7
10	Almost Automorphically and Almost Periodically Forced Circle Flows of Almost Periodic Parabolic Equations on S^1 . Journal of Dynamics and Differential Equations, 2020, 32, 1687-1729.	1.9	4
11	Existence, uniqueness and stability of transition fronts of non-local equations in time heterogeneous bistable media. European Journal of Applied Mathematics, 2020, 31, 601-645.	2.9	4
12	Towards mesoscopic ergodic theory. Science China Mathematics, 2020, 63, 1853-1876.	1.7	0
13	Persistence and extinction of nonlocal dispersal evolution equations in moving habitats. Nonlinear Analysis: Real World Applications, 2020, 54, 103110.	1.7	23
14	Persistence and spreading speeds of parabolic-elliptic Keller-Segel models in shifting environments. Journal of Differential Equations, 2020, 269, 6236-6268.	2.2	5
15	Electrocaloric devices part I: Analytical solution of one-dimensional transient heat conduction in a multilayer electrocaloric system. Journal of Advanced Dielectrics, 2020, 10, 2050028.	2.4	9
16	Persistence, Coexistence and Extinction in Two Species Chemotaxis Models on Bounded Heterogeneous Environments. Journal of Dynamics and Differential Equations, 2019, 31, 1839-1871.	1.9	16
17	Existence of periodic probability solutions to Fokker-Planck equations with applications. Journal of Functional Analysis, 2019, 277, 108281.	1.4	25
18	Can chemotaxis speed up or slow down the spatial spreading in parabolicâ€“elliptic Kellerâ€“Segel systems with logistic source?. Journal of Mathematical Biology, 2019, 79, 1455-1490.	1.9	17

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19	Quantitative concentration of stationary measures. <i>Physica D: Nonlinear Phenomena</i> , 2019, 399, 73-85.	2.8	3
20	Nonlocal dispersal equations in time-periodic media: Principal spectral theory, limiting properties and long-time dynamics. <i>Journal of Differential Equations</i> , 2019, 267, 1423-1466.	2.2	22
21	Long-time behavior of random and nonautonomous Fisher-KPP equations. Part II. Transition fronts. <i>Stochastics and Dynamics</i> , 2019, 19, 1950046.	1.2	2
22	Analysis of a Local Diffusive SIR Model with Seasonality and Nonlocal Incidence of Infection. <i>SIAM Journal on Applied Mathematics</i> , 2019, 79, 2218-2241.	1.8	16
23	Convergence to Equilibrium in Fokker-Planck Equations. <i>Journal of Dynamics and Differential Equations</i> , 2019, 31, 1591-1615.	1.9	7
24	Uniqueness and Stability of Coexistence States in Two Species Models With/Without Chemotaxis on Bounded Heterogeneous Environments. <i>Journal of Dynamics and Differential Equations</i> , 2019, 31, 2305-2338.	1.9	10
25	Global Classical Solutions, Stability of Constant Equilibria, and Spreading Speeds in Attraction-Repulsion Chemotaxis Systems with Logistic Source on \mathbb{R}^N . <i>Journal of Dynamics and Differential Equations</i> , 2019, 31, 1301-1325.	1.9	6
26	Spreading speeds and traveling waves for space-time periodic nonlocal dispersal cooperative systems. <i>Communications on Pure and Applied Analysis</i> , 2019, 18, 361-396.	0.8	24
27	Integrodifference equations in the presence of climate change: persistence criterion, travelling waves and inside dynamics. <i>Journal of Mathematical Biology</i> , 2018, 77, 1649-1687.	1.9	37
28	Parabolic-elliptic chemotaxis model with space-time-dependent logistic sources on \mathbb{N} . I. Persistence and asymptotic spreading. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018, 28, 2237-2273.	3.3	18
29	Global dynamics of an infinite dimensional epidemic model with nonlocal state structures. <i>Journal of Differential Equations</i> , 2018, 265, 5262-5296.	2.2	16
30	Regularity of Transition Fronts in Nonlocal Dispersal Evolution Equations. <i>Journal of Dynamics and Differential Equations</i> , 2017, 29, 1071-1102.	1.9	4
31	Regularity and stability of transition fronts in nonlocal equations with time heterogeneous ignition nonlinearity. <i>Journal of Differential Equations</i> , 2017, 262, 3390-3430.	2.2	4
32	Transition fronts in time heterogeneous and random media of ignition type. <i>Journal of Differential Equations</i> , 2017, 262, 454-485.	2.2	15
33	Stability of transition waves and positive entire solutions of Fisher-KPP equations with time and space dependence. <i>Nonlinearity</i> , 2017, 30, 3466-3491.	1.4	20
34	Transition fronts in nonlocal equations with time heterogeneous ignition nonlinearity. <i>Discrete and Continuous Dynamical Systems</i> , 2017, 37, 1013-1037.	0.9	7
35	Spreading speeds and transition fronts of lattice KPP equations in time heterogeneous media. <i>Discrete and Continuous Dynamical Systems</i> , 2017, 37, 4697-4727.	0.9	17
36	Stability, uniqueness and recurrence of generalized traveling waves in time heterogeneous media of ignition type. <i>Transactions of the American Mathematical Society</i> , 2016, 369, 2573-2613.	0.9	30

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37	Principal Lyapunov Exponents and Principal Floquet Spaces of Positive Random Dynamical Systems. III. Parabolic Equations and Delay Systems. <i>Journal of Dynamics and Differential Equations</i> , 2016, 28, 1039-1079.	1.9	6
38	Transition fronts in nonlocal Fisher-KPP equations in time heterogeneous media. <i>Communications on Pure and Applied Analysis</i> , 2016, 15, 1193-1213.	0.8	14
39	Lifshitz tails for Anderson models with signâ€indefinite singleâ€site potentials. <i>Mathematische Nachrichten</i> , 2015, 288, 1538-1563.	0.8	2
40	Approximations of random dispersal operators/equations by nonlocal dispersal operators/equations. <i>Journal of Differential Equations</i> , 2015, 259, 7375-7405.	2.2	32
41	Spreading speeds and traveling waves of nonlocal monostable equations in time and space periodic habitats. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 35, 1609-1640.	0.9	44
42	On principal spectrum points/principal eigenvalues of nonlocal dispersal operators and applications. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 35, 1665-1696.	0.9	32
43	Completeness for sparse potential scattering. <i>Journal of Mathematical Physics</i> , 2014, 55, 012108.	1.1	1
44	Existence, uniqueness and anisotropic-decay-caused Lifshitz tails of the integrated density of surface states for random surface models. <i>Random Operators and Stochastic Equations</i> , 2014, 22, .	0.1	0
45	An improved Combesâ€Thomas estimate of magnetic SchrÃdinger operators. <i>Arkiv for Matematik</i> , 2014, 52, 383-414.	0.5	6
46	Liouville Type Property and Spreading Speeds of KPP Equations in Periodic Media with Localized Spatial Inhomogeneity. <i>Journal of Dynamics and Differential Equations</i> , 2014, 26, 181-215.	1.9	19
47	ASYMPTOTIC DYNAMICS OF A CLASS OF COUPLED OSCILLATORS DRIVEN BY WHITE NOISES. <i>Stochastics and Dynamics</i> , 2013, 13, 1350002.	1.2	1
48	Stationary solutions and spreading speeds of nonlocal monostable equations in space periodic habitats. <i>Proceedings of the American Mathematical Society</i> , 2012, 140, 1681-1696.	0.8	64
49	Criteria for the Existence and Lower Bounds of Principal Eigenvalues of Time Periodic Nonlocal Dispersal Operators and Applications. <i>Journal of Dynamics and Differential Equations</i> , 2012, 24, 927-954.	1.9	68
50	Persistence in Forward Nonautonomous Competitive Systems of Parabolic Equations. <i>Journal of Dynamics and Differential Equations</i> , 2011, 23, 551-571.	1.9	6
51	Existence, Uniqueness, and Stability of Generalized Traveling Waves in Time Dependent Monostable Equations. <i>Journal of Dynamics and Differential Equations</i> , 2011, 23, 1-44.	1.9	63
52	Positive stationary solutions and spreading speeds of KPP equations in locally spatially in homogeneous media. <i>Methods and Applications of Analysis</i> , 2011, 18, 427-456.	0.5	11
53	\mathcal{A} -Stability of Global Attractors of Competition Diffusion Systems. <i>Journal of Dynamics and Differential Equations</i> , 2010, 22, 533-561.	1.9	1
54	One-dimensional random attractor and rotation number of the stochastic damped sine-Gordon equation. <i>Journal of Differential Equations</i> , 2010, 248, 1432-1457.	2.2	67

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55	Spreading speeds for monostable equations with nonlocal dispersal in space periodic habitats. <i>Journal of Differential Equations</i> , 2010, 249, 747-795.	2.2	142
56	SYNCHRONIZATION OF COUPLED STOCHASTIC SYSTEMS WITH MULTIPLICATIVE NOISE. <i>Stochastics and Dynamics</i> , 2010, 10, 407-428.	1.2	9
57	Random dispersal vs. non-local dispersal. <i>Discrete and Continuous Dynamical Systems</i> , 2010, 26, 551-596.	0.9	192
58	Spreading and generalized propagating speeds of discrete KPP models in time varying environments. <i>Frontiers of Mathematics in China</i> , 2009, 4, 523-562.	0.7	14
59	Dynamical Order in Systems of Coupled Noisy Oscillators. <i>Journal of Dynamics and Differential Equations</i> , 2007, 19, 1007-1036.	1.9	4
60	Global attractor and rotation number of a class of nonlinear noisy oscillators. <i>Discrete and Continuous Dynamical Systems</i> , 2007, 18, 597-611.	0.9	6
61	Traveling Waves in Diffusive Random Media. <i>Journal of Dynamics and Differential Equations</i> , 2004, 16, 1011-1060.	1.9	80
62	Lyapunov exponents and asymptotic dynamics in random Kolmogorov models. <i>Journal of Evolution Equations</i> , 2004, 4, 371-390.	1.1	19
63	Traveling waves in time periodic lattice differential equations. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2003, 54, 319-339.	1.1	23
64	Title is missing!. <i>Journal of Dynamics and Differential Equations</i> , 2002, 14, 139-188.	1.9	10
65	TRAVELING WAVES IN CELLULAR NEURAL NETWORKS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1999, 09, 1307-1319.	1.7	35
66	Traveling Waves in Time Almost Periodic Structures Governed by Bistable Nonlinearities. <i>Journal of Differential Equations</i> , 1999, 159, 1-54.	2.2	97
67	Traveling Waves in Time Almost Periodic Structures Governed by Bistable Nonlinearities. <i>Journal of Differential Equations</i> , 1999, 159, 55-101.	2.2	79
68	Traveling Waves in Lattice Dynamical Systems. <i>Journal of Differential Equations</i> , 1998, 149, 248-291.	2.2	281
69	Convergence in almost periodic Fisher and Kolmogorov models. <i>Journal of Mathematical Biology</i> , 1998, 37, 84-102.	1.9	30
70	Ergodicity of minimal sets in scalar parabolic equations. <i>Journal of Dynamics and Differential Equations</i> , 1996, 8, 299-323.	1.9	15
71	HYPERBOLIC HOMOCLINIC POINTS OF $\hat{\alpha}_d$ -ACTIONS IN LATTICE DYNAMICAL SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1996, 06, 1059-1075.	1.7	8
72	Dynamical behavior in coupled systems of J-J type. <i>Journal of Differential Equations</i> , 1990, 88, 175-212.	2.2	16

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73	Transient Dynamics of Absorbed Singular Diffusions. Journal of Dynamics and Differential Equations, 0, , 1.	1.9	2