

# Zhongwei Shen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/977968/publications.pdf>

Version: 2024-02-01

73  
papers

1,898  
citations

361413  
20  
h-index

265206  
42  
g-index

73  
all docs

73  
docs citations

73  
times ranked

412  
citing authors

#	ARTICLE	IF	CITATIONS
1	Traveling Waves in Lattice Dynamical Systems. <i>Journal of Differential Equations</i> , 1998, 149, 248-291.	2.2	281
2	Random dispersal vs. non-local dispersal. <i>Discrete and Continuous Dynamical Systems</i> , 2010, 26, 551-596.	0.9	192
3	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
4	Traveling Waves in Time Almost Periodic Structures Governed by Bistable Nonlinearities. <i>Journal of Differential Equations</i> , 1999, 159, 1-54.	2.2	97
5	Traveling Waves in Diffusive Random Media. <i>Journal of Dynamics and Differential Equations</i> , 2004, 16, 1011-1060.	1.9	80
6	Traveling Waves in Time Almost Periodic Structures Governed by Bistable Nonlinearities. <i>Journal of Differential Equations</i> , 1999, 159, 55-101.	2.2	79
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	Approximations of random dispersal operators/equations by nonlocal dispersal operators/equations. <i>Journal of Differential Equations</i> , 2015, 259, 7375-7405.	2.2	32
15	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
16	Convergence in almost periodic Fisher and Kolmogorov models. <i>Journal of Mathematical Biology</i> , 1998, 37, 84-102.	1.9	30
17	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
18	Existence of periodic probability solutions to Fokker-Planck equations with applications. <i>Journal of Functional Analysis</i> , 2019, 277, 108281.	1.4	25

#	ARTICLE	IF	CITATIONS
19	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
20	Traveling waves in time periodic lattice differential equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2003, 54, 319-339.	1.1	23
21	Persistence and extinction of nonlocal dispersal evolution equations in moving habitats. <i>Nonlinear Analysis: Real World Applications</i> , 2020, 54, 103110.	1.7	23
22	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
23	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
24	Lyapunov exponents and asymptotic dynamics in random Kolmogorov models. <i>Journal of Evolution Equations</i> , 2004, 4, 371-390.	1.1	19
25	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
26	Parabolic-elliptic chemotaxis model with space-time-dependent logistic sources on $\mathbb{R}^N$ . I. Persistence and asymptotic spreading. <i>Mathematical Models and Methods in Applied Sciences</i> , 2018, 28, 2237-2273.	3.3	18
27	Can chemotaxis speed up or slow down the spatial spreading in parabolic-elliptic Keller-Segel systems with logistic source?. <i>Journal of Mathematical Biology</i> , 2019, 79, 1455-1490.	1.9	17
28	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
29	Dynamical behavior in coupled systems of JJ type. <i>Journal of Differential Equations</i> , 1990, 88, 175-212.	2.2	16
30	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
31	Persistence, Coexistence and Extinction in Two Species Chemotaxis Models on Bounded Heterogeneous Environments. <i>Journal of Dynamics and Differential Equations</i> , 2019, 31, 1839-1871.	1.9	16
32	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
33	Ergodicity of minimal sets in scalar parabolic equations. <i>Journal of Dynamics and Differential Equations</i> , 1996, 8, 299-323.	1.9	15
34	Transition fronts in time heterogeneous and random media of ignition type. <i>Journal of Differential Equations</i> , 2017, 262, 454-485.	2.2	15
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Title is missing!. <i>Journal of Dynamics and Differential Equations</i> , 2002, 14, 139-188.	1.9	10
39	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
40	SYNCHRONIZATION OF COUPLED STOCHASTIC SYSTEMS WITH MULTIPLICATIVE NOISE. <i>Stochastics and Dynamics</i> , 2010, 10, 407-428.	1.2	9
41	Electrocaloric devices part I: Analytical solution of one-dimensional transient heat conduction in a multilayer electrocaloric system. <i>Journal of Advanced Dielectrics</i> , 2020, 10, 2050028.	2.4	9
42	HYPERBOLIC HOMOCLINIC POINTS OF $\mathbb{R}^d$ -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
43	Convergence to Equilibrium in Fokker-Planck Equations. <i>Journal of Dynamics and Differential Equations</i> , 2019, 31, 1591-1615.	1.9	7
44	Convergence to Periodic Probability Solutions in Fokker-Planck Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2021, 53, 1958-1992.	1.9	7
45	Nonlocal dispersal equations with almost periodic dependence. I. Principal spectral theory. <i>Journal of Differential Equations</i> , 2021, 295, 1-38.	2.2	7
46	Transition fronts in nonlocal equations with time heterogeneous ignition nonlinearity. <i>Discrete and Continuous Dynamical Systems</i> , 2017, 37, 1013-1037.	0.9	7
47	Propagation phenomena for time-space periodic monotone semiflows and applications to cooperative systems in multi-dimensional media. <i>Journal of Functional Analysis</i> , 2022, 282, 109415.	1.4	7
48	Persistence in Forward Nonautonomous Competitive Systems of Parabolic Equations. <i>Journal of Dynamics and Differential Equations</i> , 2011, 23, 551-571.	1.9	6
49	An improved Combes-Thomas estimate of magnetic Schrödinger operators. <i>Arkiv for Matematik</i> , 2014, 52, 383-414.	0.5	6
50	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
51	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
52	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
53	Persistence and spreading speeds of parabolic-elliptic Keller-Segel models in shifting environments. <i>Journal of Differential Equations</i> , 2020, 269, 6236-6268.	2.2	5
54	Long Time Behavior of Random and Nonautonomous Fisher-KPP Equations: Part I- Stability of Equilibria and Spreading Speeds. <i>Journal of Dynamics and Differential Equations</i> , 2021, 33, 1035-1070.	1.9	5

#	ARTICLE	IF	CITATIONS
55	Population dynamics under climate change: persistence criterion and effects of fluctuations. Journal of Mathematical Biology, 2022, 84, 30.	1.9	5
56	Dynamical Order in Systems of Coupled Noisy Oscillators. Journal of Dynamics and Differential Equations, 2007, 19, 1007-1036.	1.9	4
57	Regularity of Transition Fronts in Nonlocal Dispersal Evolution Equations. Journal of Dynamics and Differential Equations, 2017, 29, 1071-1102.	1.9	4
58	Regularity and stability of transition fronts in nonlocal equations with time heterogeneous ignition nonlinearity. Journal of Differential Equations, 2017, 262, 3390-3430.	2.2	4
59	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
60	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
61	Forced Waves of Parabolic-Elliptic Keller-Segel Models in Shifting Environments. Journal of Dynamics and Differential Equations, 2022, 34, 3057-3088.	1.9	4
62	Quantitative concentration of stationary measures. Physica D: Nonlinear Phenomena, 2019, 399, 73-85.	2.8	3
63	Lifshitz tails for Anderson models with sign-indefinite single-site potentials. Mathematische Nachrichten, 2015, 288, 1538-1563.	0.8	2
64	Long-time behavior of random and nonautonomous Fisher-KPP equations. Part II. Transition fronts. Stochastics and Dynamics, 2019, 19, 1950046.	1.2	2
65	Transient Dynamics of Absorbed Singular Diffusions. Journal of Dynamics and Differential Equations, 0, , 1.	1.9	2
66	$\mathcal{A}$ -Stability of Global Attractors of Competition Diffusion Systems. Journal of Dynamics and Differential Equations, 2010, 22, 533-561.	1.9	1
67	ASYMPTOTIC DYNAMICS OF A CLASS OF COUPLED OSCILLATORS DRIVEN BY WHITE NOISES. Stochastics and Dynamics, 2013, 13, 1350002.	1.2	1
68	Completeness for sparse potential scattering. Journal of Mathematical Physics, 2014, 55, 012108.	1.1	1
69	Parabolic-Elliptic Chemotaxis Model with Space-Time Dependent Logistic Sources on $\mathbb{R}^N$ . III: Transition Fronts. Journal of Dynamics and Differential Equations, 2022, 34, 209-238.	1.9	1
70	Global dynamics of a diffusive competition model with habitat degradation. Journal of Mathematical Biology, 2022, 84, 18.	1.9	1
71	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
72	Existence, uniqueness and anisotropic-decay-caused Lifshitz tails of the integrated density of surface states for random surface models. Random Operators and Stochastic Equations, 2014, 22, .	0.1	0

#	ARTICLE	IF	CITATIONS
73	Towards mesoscopic ergodic theory. Science China Mathematics, 2020, 63, 1853-1876.	1.7	0