

# Kening Lu

## List of Publications by Year in descending order

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77  
papers

3,588  
citations

117625

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77  
docs citations

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times ranked

607  
citing authors

#	ARTICLE	IF	CITATIONS
1	Random attractors for stochastic reaction-diffusion equations on unbounded domains. Journal of Differential Equations, 2009, 246, 845-869.	2.2	307
2	ATTRACTORS FOR STOCHASTIC LATTICE DYNAMICAL SYSTEMS. Stochastics and Dynamics, 2006, 06, 1-21.	1.2	244
3	Invariant manifolds for flows in Banach spaces. Journal of Differential Equations, 1988, 74, 285-317.	2.2	233
4	ATTRACTORS FOR LATTICE DYNAMICAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 143-153.	1.7	206
5	Invariant manifolds for stochastic partial differential equations. Annals of Probability, 2003, 31, 2109.	1.8	180
6	Attractors of non-autonomous stochastic lattice systems in weighted spaces. Physica D: Nonlinear Phenomena, 2014, 289, 32-50.	2.8	114
7	Smooth invariant foliations in infinite dimensional spaces. Journal of Differential Equations, 1991, 94, 266-291.	2.2	105
8	Smooth Stable and Unstable Manifolds for Stochastic Evolutionary Equations. Journal of Dynamics and Differential Equations, 2004, 16, 949-972.	1.9	104
9	Attractors for stochastic lattice dynamical systems with a multiplicative noise. Frontiers of Mathematics in China, 2008, 3, 317-335.	0.7	97
10	Wong-Zakai approximations and attractors for stochastic reaction-diffusion equations on unbounded domains. Journal of Differential Equations, 2018, 264, 378-424.	2.2	86
11	Estimates of the upper critical field for the Ginzburg-Landau equations of superconductivity. Physica D: Nonlinear Phenomena, 1999, 127, 73-104.	2.8	80
12	Existence and persistence of invariant manifolds for semiflows in Banach space. Memoirs of the American Mathematical Society, 1998, 135, 0-0.	0.9	73
13	Random Attractors for Delay Parabolic Equations with Additive Noise and Deterministic Nonautonomous Forcing. SIAM Journal on Applied Dynamical Systems, 2015, 14, 1018-1047.	1.6	69
14	Exponential Stability of Non-Autonomous Stochastic Delay Lattice Systems with Multiplicative Noise. Journal of Dynamics and Differential Equations, 2016, 28, 1309-1335.	1.9	69
15	Wong-Zakai Approximations and Long Term Behavior of Stochastic Partial Differential Equations. Journal of Dynamics and Differential Equations, 2019, 31, 1341-1371.	1.9	67
16	Eigenvalue problems of Ginzburg-Landau operator in bounded domains. Journal of Mathematical Physics, 1999, 40, 2647-2670.	1.1	66
17	Surface Nucleation of Superconductivity in 3-Dimensions. Journal of Differential Equations, 2000, 168, 386-452.	2.2	62
18	Invariant Manifolds for Random and Stochastic Partial Differential Equations. Advanced Nonlinear Studies, 2010, 10, 23-52.	1.7	62

#	ARTICLE	IF	CITATIONS
19	Smoothness of inertial manifolds. <i>Journal of Mathematical Analysis and Applications</i> , 1992, 169, 283-312.	1.0	61
20	Global Attractors for the Klein-Gordon-Schrödinger Equation in Unbounded Domains. <i>Journal of Differential Equations</i> , 2001, 170, 281-316.	2.2	60
21	Approximately invariant manifolds and global dynamics of spike states. <i>Inventiones Mathematicae</i> , 2008, 174, 355-433.	2.5	59
22	Invariant foliations near normally hyperbolic invariant manifolds for semiflows. <i>Transactions of the American Mathematical Society</i> , 2000, 352, 4641-4676.	0.9	58
23	Invariant manifolds for stochastic wave equations. <i>Journal of Differential Equations</i> , 2007, 236, 460-492.	2.2	57
24	Random dynamical systems for stochastic partial differential equations driven by a fractional Brownian motion. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2010, 14, 473-493.	0.9	53
25	Global attraction and stability for Cohen-Grossberg neural networks with delays. <i>Neural Networks</i> , 2006, 19, 1538-1549.	5.9	50
26	Lyapunov exponents and invariant manifolds for random dynamical systems in a Banach space. <i>Memoirs of the American Mathematical Society</i> , 2010, 206, 0-0.	0.9	48
27	Roughness of tempered exponential dichotomies for infinite-dimensional random difference equations. <i>Journal of Differential Equations</i> , 2013, 254, 4024-4046.	2.2	47
28	Persistence of overflowing manifolds for semiflow. <i>Communications on Pure and Applied Mathematics</i> , 1999, 52, 983-1046.	3.1	41
29	A Hartman-Grobman theorem for scalar reaction-diffusion equations. <i>Journal of Differential Equations</i> , 1991, 93, 364-394.	2.2	40
30	Sternberg theorems for random dynamical systems. <i>Communications on Pure and Applied Mathematics</i> , 2005, 58, 941-988.	3.1	40
31	Chaotic behavior in differential equations driven by a Brownian motion. <i>Journal of Differential Equations</i> , 2011, 251, 2853-2895.	2.2	39
32	Random Dynamical Systems for Stochastic Evolution Equations Driven by Multiplicative Fractional		

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37	Heteroclinic chaotic behavior driven by a Brownian motion. <i>Journal of Differential Equations</i> , 2013, 255, 4185-4225.	2.2	32
38	Wong-Zakai approximations and random attractors for non-autonomous stochastic lattice systems. <i>Journal of Differential Equations</i> , 2021, 280, 477-516.	2.2	31
39	The Wong-Zakai approximations of invariant manifolds and foliations for stochastic evolution equations. <i>Journal of Differential Equations</i> , 2019, 266, 4568-4623.	2.2	30
40	Floquet bundles for scalar parabolic equations. <i>Archive for Rational Mechanics and Analysis</i> , 1995, 129, 245-304.	2.4	29
41	Equivalences between nonuniform exponential dichotomy and admissibility. <i>Journal of Differential Equations</i> , 2017, 262, 682-747.	2.2	28
42	Differentiability of the conjugacy in the Hartman-Grobman Theorem. <i>Transactions of the American Mathematical Society</i> , 2017, 369, 4995-5030.	0.9	25
43	Asymptotic behavior of stochastic FitzHugh-Nagumo systems on unbounded thin domains. <i>Journal of Differential Equations</i> , 2019, 267, 4373-4409.	2.2	25
44	Normally hyperbolic invariant manifolds for random dynamical systems: Part I - persistence. <i>Transactions of the American Mathematical Society</i> , 2013, 365, 5933-5966.	0.9	22
45	Ginzburg-Landau Equation with DeGennes Boundary Condition. <i>Journal of Differential Equations</i> , 1996, 129, 136-165.	2.2	18
46	INVARIANT FOLIATIONS FOR STOCHASTIC PARTIAL DIFFERENTIAL EQUATIONS. <i>Stochastics and Dynamics</i> , 2008, 08, 505-518.	1.2	18
47	Tempered random attractors for parabolic equations in weighted spaces. <i>Journal of Mathematical Physics</i> , 2013, 54, 081505.	1.1	18
48	Smooth conjugacy of centre manifolds. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 1992, 120, 61-77.	1.2	17
49	A Hartman-Grobman theorem for the Cahn-Hilliard and phase-field equations. <i>Journal of Dynamics and Differential Equations</i> , 1994, 6, 101-145.	1.9	17
50	The period function of hyperelliptic Hamiltonians of degree 5 with real critical points. <i>Nonlinearity</i> , 2008, 21, 465-483.	1.4	17
51	Invariant foliations for random dynamical systems. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 3639-3666.	0.9	15
52	Normal form and linearization for quasiperiodic systems. <i>Transactions of the American Mathematical Society</i> , 1992, 331, 361-376.	0.9	14
53	UPPER SEMICONTINUITY OF ATTRACTORS FOR THE KLEIN-GORDON-SCHRÖDINGER EQUATION. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2005, 15, 157-168.	1.7	14
54	Entropy, Chaos, and Weak Horseshoe for Infinite-Dimensional Random Dynamical Systems. <i>Communications on Pure and Applied Mathematics</i> , 2017, 70, 1987-2036.	3.1	14

#	ARTICLE	IF	CITATIONS
55	Chaos in differential equations driven by a nonautonomous force. <i>Nonlinearity</i> , 2010, 23, 2935-2975.	1.4	13
56	Geometric singular perturbation theory with real noise. <i>Journal of Differential Equations</i> , 2015, 259, 5137-5167.	2.2	13
57	Strange Attractors for Periodically Forced Parabolic Equations. <i>Memoirs of the American Mathematical Society</i> , 2012, 224, 1.	0.9	13
58	Poincaré theorems for random dynamical systems. <i>Ergodic Theory and Dynamical Systems</i> , 2005, 25, 1221-1236.	0.6	12
59	Slow divergence integral and its application to classical Liouville equations of degree 5. <i>Journal of Differential Equations</i> , 2014, 257, 4437-4469.	2.2	12
60	SRB measures for a class of partially hyperbolic attractors in Hilbert spaces. <i>Journal of Differential Equations</i> , 2016, 261, 1532-1603.	2.2	12
61	A note on partially hyperbolic attractors: Entropy conjecture and SRB measures. <i>Discrete and Continuous Dynamical Systems</i> , 2015, 35, 341-352.	0.9	11
62	Convergence and center manifolds for differential equations driven by colored noise. <i>Discrete and Continuous Dynamical Systems</i> , 2019, 39, 4797-4840.	0.9	11
63	Rotation numbers for random dynamical systems on the circle. <i>Transactions of the American Mathematical Society</i> , 2008, 360, 5509-5528.	0.9	9
64	Persistence of overflowing manifolds for semiflow. <i>Communications on Pure and Applied Mathematics</i> , 1999, 52, 983-1046.	3.1	6
65	Conjugate dynamics on center-manifolds for stochastic partial differential equations. <i>Journal of Differential Equations</i> , 2020, 269, 5997-6054.	2.2	5
66	Rough Path Theory to Approximate Random Dynamical Systems. <i>SIAM Journal on Applied Dynamical Systems</i> , 2021, 20, 997-1021.	1.6	5
67	Stationary approximations of stochastic wave equations on unbounded domains with critical exponents. <i>Journal of Mathematical Physics</i> , 2021, 62, 092702.	1.1	4
68	Existence of SRB measures for a class of partially hyperbolic attractors in Banach spaces. <i>Discrete and Continuous Dynamical Systems</i> , 2017, 37, 3905-3920.	0.9	4
69	Smoothness of invariant manifolds and foliations for infinite dimensional random dynamical systems. <i>Science China Mathematics</i> , 2020, 63, 1877-1912.	1.7	3
70	Ginzburg-Landau system and surface nucleation of superconductivity. <i>Methods and Applications of Analysis</i> , 2001, 8, 279-300.	0.5	3
71	C1 Hartman Theorem for random dynamical systems. <i>Advances in Mathematics</i> , 2020, 375, 107375.	1.1	2
72	Takens theorem for random dynamical systems. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2016, 21, 3191-3207.	0.9	2

#	ARTICLE	IF	CITATIONS
73	Differential Equations and Computational Simulations. , 2000, , .		1
74	Invariant Manifolds for Infinite Dimensional Random Dynamical Systems. Interdisciplinary Mathematical Sciences, 2011, , 301-328.	0.4	1
75	Limiting behavior of unstable manifolds for spdes in varying phase spaces. Discrete and Continuous Dynamical Systems - Series B, 2021, , .	0.9	1
76	Persistence of $C^1$ Inertial Manifolds Under Small Random Perturbations. Journal of Dynamics and Differential Equations, 2024, 36, 333-385.	1.9	1
77	Limiting behavior of FitzHugh-Nagumo equations driven by colored noise on unbounded thin domains. Stochastics and Dynamics, 0, , .	1.2	0