

Yingfei Yi

List of Publications by Year in descending order

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62
papers

1,152
citations

361413

20
h-index

434195

31
g-index

63
all docs

63
docs citations

63
times ranked

403
citing authors

#	ARTICLE	IF	CITATIONS
1	Relaxation oscillations in a class of predator-prey systems. Journal of Differential Equations, 2003, 188, 306-331.	2.2	66
2	Quasi-periodic solutions in a nonlinear Schrödinger equation. Journal of Differential Equations, 2007, 233, 512-542.	2.2	58
3	Center Manifolds for Invariant Sets. Journal of Differential Equations, 2000, 168, 355-385.	2.2	50
4	Center manifolds for smooth invariant manifolds. Transactions of the American Mathematical Society, 2000, 352, 5179-5211.	0.9	49
5	Persistence of lower dimensional tori of general types in Hamiltonian systems. Transactions of the American Mathematical Society, 2004, 357, 1565-1600.	0.9	43
6	Degenerate lower-dimensional tori in Hamiltonian systems. Journal of Differential Equations, 2006, 227, 670-691.	2.2	41
7	A local variational principle of pressure and its applications to equilibrium states. Israel Journal of Mathematics, 2007, 161, 29-74.	0.8	40
8	Invariant Tori in Hamiltonian Systems with High Order Proper Degeneracy. Annales Henri Poincare, 2010, 10, 1419-1436.	1.7	40
9	Steady States of Fokker-Planck Equations: I. Existence. Journal of Dynamics and Differential Equations, 2015, 27, 721-742.	1.9	40
10	A quasi-periodic Poincaré's theorem. Mathematische Annalen, 2003, 326, 649-690.	1.4	36
11	The cyclicity of period annuli of degenerate quadratic Hamiltonian systems with elliptic segment loops. Ergodic Theory and Dynamical Systems, 2002, 22, .	0.6	35
12	Positive solutions of super-critical elliptic equations and asymptotics. Communications in Partial Differential Equations, 1993, 18, 977-1019.	2.2	34
13	Almost periodically forced circle flows. Journal of Functional Analysis, 2009, 257, 832-902.	1.4	31
14	Convergence in almost periodic Fisher and Kolmogorov models. Journal of Mathematical Biology, 1998, 37, 84-102.	1.9	30
15	Center manifold and stability for skew-product flows. Journal of Dynamics and Differential Equations, 1994, 6, 543-582.	1.9	27
16	Persistence of invariant tori in generalized Hamiltonian systems. Ergodic Theory and Dynamical Systems, 2002, 22, .	0.6	27
17	On minimal sets of scalar parabolic equations with skew-product structures. Transactions of the American Mathematical Society, 1995, 347, 4413-4431.	0.9	27
18	Turning Points And Relaxation Oscillation Cycles in Simple Epidemic Models. SIAM Journal on Applied Mathematics, 2016, 76, 663-687.	1.8	25

#	ARTICLE	IF	CITATIONS
19	Existence of periodic probability solutions to Fokker-Planck equations with applications. Journal of Functional Analysis, 2019, 277, 108281.	1.4	25
20	Persistence of hyperbolic tori in Hamiltonian systems. Journal of Differential Equations, 2005, 208, 344-387.	2.2	22
21	Singular ground states of semilinear elliptic equations via invariant manifold theory. Nonlinear Analysis: Theory, Methods & Applications, 1993, 20, 1279-1302.	1.1	20
22	Fast and Slow Dynamics of Malaria and the S-gene Frequency. Journal of Dynamics and Differential Equations, 2004, 16, 869-896.	1.9	19
23	Steady States of Fokker-Planck Equations: II. Non-existence. Journal of Dynamics and Differential Equations, 2015, 27, 743-762.	1.9	19
24	Title is missing!. Indiana University Mathematics Journal, 1994, 43, 1045.	0.9	19
25	Asymptotic pairs, stable sets and chaos in positive entropy systems. Journal of Functional Analysis, 2015, 268, 824-846.	1.4	18
26	Completely degenerate responsive tori in Hamiltonian systems. Nonlinearity, 2020, 33, 6072-6098.	1.4	18
27	Integral identity and measure estimates for stationary Fokker-Planck equations. Annals of Probability, 2015, 43, .	1.8	17
28	Interior Regularity for Regional Fractional Laplacian. Communications in Mathematical Physics, 2015, 340, 233-251.	2.2	17
29	Steady States of Fokker-Planck Equations: III. Degenerate Diffusion. Journal of Dynamics and Differential Equations, 2016, 28, 127-141.	1.9	17
30	Concentration and limit behaviors of stationary measures. Physica D: Nonlinear Phenomena, 2018, 369, 1-17.	2.8	17
31	Ergodicity of minimal sets in scalar parabolic equations. Journal of Dynamics and Differential Equations, 1996, 8, 299-323.	1.9	15
32	Oscillations and multiscale dynamics in a closed chemical reaction system: Second law of thermodynamics and temporal complexity. Journal of Chemical Physics, 2008, 129, 154505.	3.0	15
33	Dimensions of stable sets and scrambled sets in positive finite entropy systems. Ergodic Theory and Dynamical Systems, 2012, 32, 599-628.	0.6	15
34	Singular solutions of the elliptic equation $\hat{\Gamma}u + u + u^p = 0$. Annali Di Matematica Pura Ed Applicata, 1994, 166, 203-225.	1.0	14
35	Lower-Dimensional Tori in Multi-Scale, Nearly Integrable Hamiltonian Systems. Annales Henri Poincare, 2017, 18, 53-83.	1.7	14
36	On almost automorphic dynamics in symbolic lattices. Ergodic Theory and Dynamical Systems, 2004, 24, 677-696.	0.6	13

#	ARTICLE	IF	CITATIONS
37	A KAM theorem for Hamiltonian networks with long ranged couplings. <i>Nonlinearity</i> , 2007, 20, 1313-1342.	1.4	12
38	Nonlinear Oscillations and Multiscale Dynamics in a Closed Chemical Reaction System. <i>Journal of Dynamics and Differential Equations</i> , 2010, 22, 491-507.	1.9	12
39	Poincaré-Treshchev Mechanism in Multi-scale, Nearly Integrable Hamiltonian Systems. <i>Journal of Nonlinear Science</i> , 2018, 28, 337-369.	2.1	12
40	Quasi-periodic breathers in Hamiltonian networks of long-range coupling. <i>Physica D: Nonlinear Phenomena</i> , 2008, 237, 2866-2892.	2.8	10
41	Systematic Measures of Biological Networks I: Invariant Measures and Entropy. <i>Communications on Pure and Applied Mathematics</i> , 2016, 69, 1777-1811.	3.1	10
42	Quantification of degeneracy in biological systems for characterization of functional interactions between modules. <i>Journal of Theoretical Biology</i> , 2012, 302, 29-38.	1.7	9
43	Stochastic stability of measures in gradient systems. <i>Physica D: Nonlinear Phenomena</i> , 2016, 314, 9-17.	2.8	9
44	Travelling Wave Solutions in a Tissue Interaction Model for Skin Pattern Formation. <i>Journal of Dynamics and Differential Equations</i> , 2003, 15, 517-534.	1.9	8
45	Response Solutions in Degenerate Oscillators Under Degenerate Perturbations. <i>Annales Henri Poincaré</i> , 2022, 23, 333-360.	1.7	8
46	Systematic Measures of Biological Networks II: Degeneracy, Complexity, and Robustness. <i>Communications on Pure and Applied Mathematics</i> , 2016, 69, 1952-1983.	3.1	7
47	Convergence to Equilibrium in Fokker-Planck Equations. <i>Journal of Dynamics and Differential Equations</i> , 2019, 31, 1591-1615.	1.9	7
48	Convergence to Periodic Probability Solutions in Fokker-Planck Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2021, 53, 1958-1992.	1.9	7
49	On Lyapunov exponents of continuous Schrödinger cocycles over irrational rotations. <i>Proceedings of the American Mathematical Society</i> , 2012, 140, 1957-1962.	0.8	6
50	ON POINCARÉ-TRESHCHEV TORI IN HAMILTONIAN SYSTEMS. , 2005, , .		6
51	Nekhoroshev and KAM Stabilities in Generalized Hamiltonian Systems. <i>Journal of Dynamics and Differential Equations</i> , 2006, 18, 577-614.	1.9	4
52	Quantitative concentration of stationary measures. <i>Physica D: Nonlinear Phenomena</i> , 2019, 399, 73-85.	2.8	3
53	Lower dimension tori of general types in multi-scale Hamiltonian systems. <i>Nonlinearity</i> , 2019, 32, 2226-2245.	1.4	3
54	Synchronization in Discrete-Time, Discrete-State Random Dynamical Systems. <i>SIAM Journal on Applied Dynamical Systems</i> , 2020, 19, 233-251.	1.6	2

#	ARTICLE	IF	CITATIONS
55	A Biography of Russell A. Johnson. <i>Journal of Dynamics and Differential Equations</i> , 2011, 23, 397-404.	1.9	1
56	Viscous stability of quasi-periodic tori. <i>Ergodic Theory and Dynamical Systems</i> , 2014, 34, 185-210.	0.6	1
57	Entropy productions in dissipative systems. <i>Proceedings of the American Mathematical Society</i> , 2019, 147, 5209-5225.	0.8	1
58	Relaxation Oscillations in Predator–Prey Systems. <i>Journal of Dynamics and Differential Equations</i> , 2024, 36, 77-104.	1.9	1
59	Entropy of Dynamical Systems with Repetition Property. <i>Journal of Dynamics and Differential Equations</i> , 2011, 23, 683-693.	1.9	0
60	Special Issue 2011. <i>Journal of Dynamics and Differential Equations</i> , 2011, 23, 395-396.	1.9	0
61	Towards mesoscopic ergodic theory. <i>Science China Mathematics</i> , 2020, 63, 1853-1876.	1.7	0
62	Intermittent Synchronization in Finite-State Random Networks Under Markov Perturbations. <i>Communications in Mathematical Physics</i> , 2021, 384, 1945-1970.	2.2	0