Yi Li

List of Publications by Year
in descending order

97 papers	2,084 citations	318942 23 h-index	299063 42 g-index
101 all docs	101 docs citations	101 times ranked	867 citing authors

#	Article	IF	Citations
1	Stability analysis of stationary variational and hemivariational inequalities with applications. Nonlinear Analysis: Real World Applications, 2019, 50, 171-191.	0.9	5
2	Monotone properties of the eigenfunction of Neumann problems. Journal Des Mathematiques Pures Et Appliquees, 2019, 130, 112-129.	0.8	0
3	A computer assisted study of uniqueness of nodal ground state solutions. Journal of Computational and Applied Mathematics, 2019, 356, 402-406.	1.1	1
4	Stationary Solutions of the Flat Vlasov–Poisson System. Archive for Rational Mechanics and Analysis, 2019, 231, 189-232.	1.1	3
5	Uniqueness of positive radial solutions of a semilinear elliptic equation in an annulus. Discrete and Continuous Dynamical Systems, 2019, 39, 1585-1594.	0.5	4
6	Symmetry and monotonicity of positive solutions of elliptic equations with mixed boundary conditions in a super-spherical cone. Calculus of Variations and Partial Differential Equations, 2018, 57, 1.	0.9	4
7	Effect of predator cannibalism and prey growth on the dynamic behavior for a predator-stage structured population model with diffusion. Journal of Mathematical Analysis and Applications, 2017, 449, 1479-1501.	0.5	12
8	Infinitely many non-radial solutions for the polyharmonic Hénon equation with a critical exponent. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2017, 147, 371-396.	0.8	7
9	A simplified proof of a conjecture for the perturbed Gelfand equation from combustion theory. Journal of Differential Equations, 2017, 263, 2874-2885.	1.1	5
10	Traveling waves in a three species competition-cooperation system. Communications on Pure and Applied Analysis, 2017, 16, 1103-1120.	0.4	9
11	Qualitative analysis on positive steady-states for an autocatalytic reaction model in thermodynamics. Discrete and Continuous Dynamical Systems, 2017, 37, 4785-4813.	0.5	9
12	Existence and uniqueness of monotone nodal solutions of a semilinear Neumann problem. Nonlinear Analysis: Theory, Methods & Applications, 2016, 134, 105-116.	0.6	1
13	Coexistence of activator and inhibitor for Brusselator diffusion system in chemical or biochemical reactions. Applied Mathematics Letters, 2016, 53, 33-38.	1.5	10
14	Structure of the positive radial F-solutions of the Matukuma equation. International Journal of Mathematics, 2015, 26, 1550013.	0.2	3
15	Multi-peak solutions to two types of free boundary problems. Calculus of Variations and Partial Differential Equations, 2015, 54, 163-182.	0.9	3
16	Nodal solutions for a quasilinear Schrödinger equation with critical nonlinearity and non-square diffusion. Communications on Pure and Applied Analysis, 2015, 14, 2487-2508.	0.4	5
17	Existence of solutions for a class of p-Laplacian type equation with critical growth and potential vanishing at infinity. Discrete and Continuous Dynamical Systems, 2015, 36, 683-699.	0.5	3
18	Harmonic oscillators at resonance, perturbed by a non-linear friction force. Acta Mathematica Scientia, 2014, 34, 1025-1028.	0.5	2

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19	Exact multiplicity of positive solutions for concave–convex and convex–concave nonlinearities. Journal of Differential Equations, 2014, 257, 3730-3737.	1.1	8
20	Existence and Stability of Travelling Front Solutions for General Auto-catalytic Chemical Reaction Systems. Mathematical Modelling of Natural Phenomena, 2013, 8, 104-132.	0.9	5
21	The radial positive solutions of the Matukuma equation in higher dimensional space: Singular solution. Journal of Differential Equations, 2012, 253, 3232-3265.	1.1	5
22	Stability of Traveling Front Solutions with Algebraic Spatial Decay for Some Autocatalytic Chemical Reaction Systems. SIAM Journal on Mathematical Analysis, 2012, 44, 1474-1521.	0.9	22
23	A computer assisted study of uniqueness of ground state solutions. Journal of Computational and Applied Mathematics, 2012, 236, 2838-2843.	1.1	1
24	Habitat choice of multiple pollinators in almond trees and its potential effect on pollen movement and productivity: A theoretical approach using the Shigesada–Kawasaki–Teramoto model. Journal of Theoretical Biology, 2012, 305, 103-109.	0.8	6
25	On the positive radial solutions of a class of singular semilinear elliptic equations. Journal of Differential Equations, 2012, 253, 481-501.	1.1	11
26	Multiple solutions for an elliptic problem related to vortex pairs. Journal of Differential Equations, 2011, 250, 3448-3472.	1.1	9
27	Quantitative Interpretation of a Genetic Model of Carcinogenesis Using Computer Simulations. PLoS ONE, 2011, 6, e16859.	1.1	2
28	The Positive Solutions of the Matukuma Equation and the Problem of Finite Radius and Finite Mass. Archive for Rational Mechanics and Analysis, 2010, 198, 613-675.	1.1	9
29	On the structure of solutions to a class of quasilinear elliptic Neumann problems. Part II. Calculus of Variations and Partial Differential Equations, 2010, 37, 237-258.	0.9	2
30	Global solution curves for a class of quasilinear boundary-value problems. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2010, 140, 1197-1215.	0.8	14
31	Traveling wave solutions for a reaction diffusion equation with double degenerate nonlinearities. Discrete and Continuous Dynamical Systems, 2010, 26, 265-290.	0.5	21
32	Computing the location and the direction of bifurcation for sign changing solutions. Differential Equations and Applications, 2010, , 1-13.	0.1	0
33	Regularity of the solutions for nonlinear biharmonic equations in $\mathbb{R}^N$. Acta Mathematica Scientia, 2009, 29, 1469-1480.	0.5	6
34	A note on the positive solutions of an inhomogeneous elliptic equation on $\mathbb{R}^n$. Journal of Differential Equations, 2009, 246, 670-680.	1.1	6
35	Periodic traveling waves in SIRS endemic models. Mathematical and Computer Modelling, 2009, 49, 393-401.	2.0	11
36	Exclusive traveling waves for competitive reaction–diffusion systems and their stabilities. Journal of Mathematical Analysis and Applications, 2008, 338, 902-924.	0.5	29

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37	Verification of bifurcation diagrams for polynomial-like equations. Journal of Computational and Applied Mathematics, 2008, 212, 187-193.	1.1	1
38	Bifurcation and stability of periodic solutions of Duffing equations. Nonlinearity, 2008, 21, 2485-2503.	0.6	21
39	Existence and decay properties of positive solutions for an inhomogeneous semilinear elliptic equation. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2008, 138, 301-322.	0.8	1
40	Stability of travelling waves with noncritical speeds for double degenerate Fisher-Type equations. Discrete and Continuous Dynamical Systems - Series B, 2008, 10, 149-170.	0.5	12
41	Asymptotic behavior of linearized viscoelastic flow problem. Discrete and Continuous Dynamical Systems - Series B, 2008, 10, 843-856.	0.5	15
42	On the semistability of the minimal positive steady state for a nonhomogeneous semilinear Cauchy problem. Mathematical Research Letters, 2008, 15, 923-939.	0.2	3
43	EXPONENTIAL DECAY OF THE SOLUTIONS FOR NONLINEAR BIHARMONIC EQUATIONS. Communications in Contemporary Mathematics, 2007, 09, 753-768.	0.6	11
44	On the shape of least-energy solutions for a class of quasilinear elliptic Neumann problems. IMA Journal of Applied Mathematics, 2007, 72, 113-139.	0.8	8
45	Stability and exact multiplicity of periodic solutions of Duffing equations with cubic nonlinearities. Proceedings of the American Mathematical Society, 2007, 135, 3925-3932.	0.4	13
46	Rate of decay of stable periodic solutions of Duffing equations. Journal of Differential Equations, 2007, 236, 493-503.	1.1	24
47	Locating the peaks of least-energy solutions to a quasilinear elliptic Neumann problem. Journal of Mathematical Analysis and Applications, 2007, 336, 1368-1383.	0.5	5
48	Ameboid cell motility: A model and inverse problem, with an application to live cell imaging data. Journal of Theoretical Biology, 2007, 244, 169-179.	0.8	33
49	Existence, uniqueness, and stability of periodic solutions of an equation of duffing type. Discrete and Continuous Dynamical Systems, 2007, 18, 793-807.	0.5	3
50	On the stability of the positive steady states for a nonhomogeneous semilinear Cauchy problem. Journal of Differential Equations, 2006, 228, 507-529.	1.1	20
51	Existence, Uniqueness and Decay Properties of Strong Solutions to an Evolutionary System of MHD Type in $$\mathbb{R}^3$$. Journal of Dynamics and Differential Equations, 2006, 18, 393-426.	1.0	3
52	On the oscillations of the solution curve for a class of semilinear equations. Journal of Mathematical Analysis and Applications, 2006, 321, 576-588.	0.5	19
53	Recent Development in Bioluminescence Tomography. Current Medical Imaging, 2006, 2, 453-457.	0.4	27
54	BIFURCATIONS IN A HOST-PARASITE MODEL WITH NONLINEAR INCIDENCE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 3291-3307.	0.7	5

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55	Branches of solutions to semilinear biharmonic equations on R<i>^N</i>. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2006, 136, 733-758.	0.8	2
56	Inverse Problems in Bioluminescence Tomography. Series in Contemporary Applied Mathematics, 2006, , 114-148.	0.8	3
57	Local stability of traveling-wave solutions of nonlinear reaction-diffusion equations. Discrete and Continuous Dynamical Systems, 2006, 15, 681-701.	0.5	40
58	A note on exponential decay properties of ground states for quasilinear elliptic equations. Proceedings of the American Mathematical Society, 2005, 133, 2005-2012.	0.4	10
59	On the structure of solutions to a class of quasilinear elliptic Neumann problems. Journal of Differential Equations, 2005, 212, 208-233.	1.1	10
60	Species Coexistence and Periodicity in Host-Host-Pathogen Models. Journal of Mathematical Biology, 2005, 51, 629-660.	0.8	22
61	Computational optical biopsy. BioMedical Engineering OnLine, 2005, 4, 36.	1.3	6
62	Global existence of solutions to a cross-diffusion system in higher dimensional domains. Discrete and Continuous Dynamical Systems, 2005, 12, 185-192.	0.5	20
63	Computing the location and the direction of bifurcation. Mathematical Research Letters, 2005, 12, 933-944.	0.2	20
64	Uniqueness theorems in bioluminescence tomography. Medical Physics, 2004, 31, 2289-2299.	1.6	253
65	Exact multiplicity for periodic solutions of aÂfirst-order differential equation. Journal of Mathematical Analysis and Applications, 2004, 292, 415-422.	0.5	7
66	On the stability of the positive radial steady states for a semilinear Cauchy problem. Nonlinear Analysis: Theory, Methods & Applications, 2003, 54, 291-318.	0.6	14
67	Exact multiplicity for periodic solutions of Duffing type. Nonlinear Analysis: Theory, Methods & Applications, 2003, 55, 115-124.	0.6	11
68	The global dynamics of isothermal chemical systems with critical nonlinearity. Nonlinearity, 2003, 16, 1057-1074.	0.6	12
69	Perturbation of Global Solution Curves for Semilinear Problems. Advanced Nonlinear Studies, 2003, 3, 289-299.	0.7	8
70	MULTIPLE SOLUTIONS FOR AN INHOMOGENEOUS SEMILINEAR ELLIPTIC EQUATION IN R N. Acta Mathematica Scientia, 2003, 23, 1-15.	0.5	8
71	On the Existence of Multiple Positive Solutions for a Semilinear Problem in Exterior Domains. Journal of Differential Equations, 2002, 181, 197-229.	1.1	13
72	Separation Property of Solutions for a Semilinear Elliptic Equation. Journal of Differential Equations, 2000, 163, 381-406.	1.1	46

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73	Positive solutions to semilinear problems with coefficient that changes sign. Nonlinear Analysis: Theory, Methods & Applications, 1999, 37, 501-510.	0.6	25
74	Hopf bifurcation in models for pertussis epidemiology. Mathematical and Computer Modelling, 1999, 30, 29-45.	2.0	14
75	Generalized Averages for Solutions of Two-Point Dirichlet Problems. Journal of Mathematical Analysis and Applications, 1999, 239, 478-484.	0.5	9
76	Axiomatic approach for quantification of image resolution. IEEE Signal Processing Letters, 1999, 6, 257-258.	2.1	15
77	On the exactness of an S-shaped bifurcation curve. Proceedings of the American Mathematical Society, 1999, 127, 1011-1020.	0.4	44
78	Eigenfunction and harmonic function estimates in domains with horns and cusps. Communications in Partial Differential Equations, 1997, 22, 1805-1836.	1.0	6
79	An Exact Multiplicity Result for a class of Semilinear Equations. Communications in Partial Differential Equations, 1997, 22, 661-684.	1.0	39
80	Travelling Fronts in Cylinders and Their Stability. Rocky Mountain Journal of Mathematics, 1997, 27, 123.	0.2	26
81	Exact multiplicity results for boundary value problems with nonlinearities generalising cubic. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 1996, 126, 599-616.	0.8	67
82	Existence and Bifurcation of the Positive Solutions for a Semilinear Equation with Critical Exponent. Journal of Differential Equations, 1996, 130, 179-200.	1.1	28
83	Singularity of Super-Brownian Local Time at a Point Catalyst. Annals of Probability, 1995, 23, .	0.8	7
84	The Support of Measure-Valued Branching Processes in a Random Environment. Annals of Probability, 1995, 23, .	0.8	7
85	Evolving plane curves by curvature in relative geometries II. Duke Mathematical Journal, 1994, 75, 79.	0.8	55
86	Radial symmetry of positive solutions of nonlinear elliptic equations in Rn. Communications in Partial Differential Equations, 1993, 18, 1043-1054.	1.0	149
87	On the positive solutions of the Matukuma equation. Duke Mathematical Journal, 1993, 70, 575.	0.8	37
88	Uniqueness of radial solutions of semilinear elliptic equations. Transactions of the American Mathematical Society, 1992, 333, 339-363.	0.5	95
89	On the asymptotic behavior and radial symmetry of positive solutions of semilinear elliptic equations in R n I. Asymptotic behavior. Archive for Rational Mechanics and Analysis, 1992, 118, 195-222.	1.1	55
90	On the asymptotic behavior and radial symmetry of positive solutions of semilinear elliptic equations in R n II. Radial symmetry. Archive for Rational Mechanics and Analysis, 1992, 118, 223-243.	1.1	38

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91	Asymptotic behavior of positive solutions of equation $\Delta u + K(x) u^p = 0$ in Rn. Journal of Differential Equations, 1992, 95, 304-330.	1.1	105
92	Symmetry Properties of Finite Total Mass Solutions of Matukuma Equation. , 1992, , 375-389.		1
93	On the Positive Solutions of the Free-Boundary Problem for Emden-Fowler Type Equations. The IMA Volumes in Mathematics and Its Applications, 1992, , 163-172.	0.5	2
94	BoundaryC1,α regularity for variational inequalities. Communications on Pure and Applied Mathematics, 1991, 44, 715-732.	1.2	13
95	On the existence and symmetry properties of finite total mass solutions of the matukuma equation, the eddington equation and their generalizations. Informa, 1989, 108, 175-194.	0.6	54
96	Remarks on a semilinear elliptic equation on Rn. Journal of Differential Equations, 1988, 74, 34-49.	1.1	43
97	On conformal scalar curvature equations in $\mathbb{R}^n$. Duke Mathematical Journal, 1988, 57, 895.	0.8	145