Yi Li

List of Publications by Year
in descending order

98 papers	2,084 citations	279798 23 h-index	265206 42 g-index
101 all docs	101 docs citations	101 times ranked	776 citing authors

#	Article	IF	Citations
1	Uniqueness theorems in bioluminescence tomography. Medical Physics, 2004, 31, 2289-2299.	3.0	253
2	Radial symmetry of positive solutions of nonlinear elliptic equations in Rn. Communications in Partial Differential Equations, 1993, 18, 1043-1054.	2.2	149
3	On conformal scalar curvature equations in â„ⁿ. Duke Mathematical Journal, 1988, 57, 895.	1.5	145
4	Asymptotic behavior of positive solutions of equation Î"u + K(x) up = 0 in Rn. Journal of Differential Equations, 1992, 95, 304-330.	2.2	105
5	Uniqueness of radial solutions of semilinear elliptic equations. Transactions of the American Mathematical Society, 1992, 333, 339-363.	0.9	95
6	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.	1.2	67
7	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.	2.4	55
8	Evolving plane curves by curvature in relative geometries II. Duke Mathematical Journal, 1994, 75, 79.	1.5	55
9	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
10	Separation Property of Solutions for a Semilinear Elliptic Equation. Journal of Differential Equations, 2000, 163, 381-406.	2.2	46
11	On the exactness of an S-shaped bifurcation curve. Proceedings of the American Mathematical Society, 1999, 127, 1011-1020.	0.8	44
12	Remarks on a semilinear elliptic equation on Rn. Journal of Differential Equations, 1988, 74, 34-49.	2.2	43
13	Local stability of traveling-wave solutions of nonlinear reaction-diffusion equations. Discrete and Continuous Dynamical Systems, 2006, 15, 681-701.	0.9	40
14	An Exact Multiplicity Result for a class of Semilinear Equations. Communications in Partial Differential Equations, 1997, 22, 661-684.	2.2	39
15	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.	2.4	38
16	On the positive solutions of the Matukuma equation. Duke Mathematical Journal, 1993, 70, 575.	1.5	37
17	Ameboid cell motility: A model and inverse problem, with an application to live cell imaging data. Journal of Theoretical Biology, 2007, 244, 169-179.	1.7	33
18	Exclusive traveling waves for competitive reactionâ€"diffusion systems and their stabilities. Journal of Mathematical Analysis and Applications, 2008, 338, 902-924.	1.0	29

#	Article	IF	Citations
19	Existence and Bifurcation of the Positive Solutions for a Semilinear Equation with Critical Exponent. Journal of Differential Equations, 1996, 130, 179-200.	2.2	28
20	Recent Development in Bioluminescence Tomography. Current Medical Imaging, 2006, 2, 453-457.	0.8	27
21	Travelling Fronts in Cylinders and Their Stability. Rocky Mountain Journal of Mathematics, 1997, 27, 123.	0.4	26
22	Positive solutions to semilinear problems with coefficient that changes sign. Nonlinear Analysis: Theory, Methods & Applications, 1999, 37, 501-510.	1.1	25
23	Rate of decay of stable periodic solutions of Duffing equations. Journal of Differential Equations, 2007, 236, 493-503.	2.2	24
24	Species Coexistence and Periodicity in Host-Host-Pathogen Models. Journal of Mathematical Biology, 2005, 51, 629-660.	1.9	22
25	Stability of Traveling Front Solutions with Algebraic Spatial Decay for Some Autocatalytic Chemical Reaction Systems. SIAM Journal on Mathematical Analysis, 2012, 44, 1474-1521.	1.9	22
26	Bifurcation and stability of periodic solutions of Duffing equations. Nonlinearity, 2008, 21, 2485-2503.	1.4	21
27	Traveling wave solutions for a reaction diffusion equation with double degenerate nonlinearities. Discrete and Continuous Dynamical Systems, 2010, 26, 265-290.	0.9	21
28	On the stability of the positive steady states for a nonhomogeneous semilinear Cauchy problem. Journal of Differential Equations, 2006, 228, 507-529.	2.2	20
29	Uniqueness of Radial Solutions of Semilinear Elliptic Equations. Transactions of the American Mathematical Society, 1992, 333, 339.	0.9	20
30	Global existence of solutions to a cross-diffusion system in higher dimensional domains. Discrete and Continuous Dynamical Systems, 2005, 12, 185-192.	0.9	20
31	Computing the location and the direction of bifurcation. Mathematical Research Letters, 2005, 12, 933-944.	0.5	20
32	On the oscillations of the solution curve for a class of semilinear equations. Journal of Mathematical Analysis and Applications, 2006, 321, 576-588.	1.0	19
33	Axiomatic approach for quantification of image resolution. IEEE Signal Processing Letters, 1999, 6, 257-258.	3.6	15
34	Asymptotic behavior of linearized viscoelastic flow problem. Discrete and Continuous Dynamical Systems - Series B, 2008, 10, 843-856.	0.9	15
35	Hopf bifurcation in models for pertussis epidemiology. Mathematical and Computer Modelling, 1999, 30, 29-45.	2.0	14
36	On the stability of the positive radial steady states for a semilinear Cauchy problem. Nonlinear Analysis: Theory, Methods & Applications, 2003, 54, 291-318.	1.1	14

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37	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.	1.2	14
38	BoundaryC1,Î± regularity for variational inequalities. Communications on Pure and Applied Mathematics, 1991, 44, 715-732.	3.1	13
39	On the Existence of Multiple Positive Solutions for a Semilinear Problem in Exterior Domains. Journal of Differential Equations, 2002, 181, 197-229.	2.2	13
40	Stability and exact multiplicity of periodic solutions of Duffing equations with cubic nonlinearities. Proceedings of the American Mathematical Society, 2007, 135, 3925-3932.	0.8	13
41	The global dynamics of isothermal chemical systems with critical nonlinearity. Nonlinearity, 2003, 16, 1057-1074.	1.4	12
42	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.	1.0	12
43	Stability of travelling waves with noncritical speeds for double degenerate Fisher-Type equations. Discrete and Continuous Dynamical Systems - Series B, 2008, 10, 149-170.	0.9	12
44	Exact multiplicity for periodic solutions of Duffing type. Nonlinear Analysis: Theory, Methods & Applications, 2003, 55, 115-124.	1.1	11
45	EXPONENTIAL DECAY OF THE SOLUTIONS FOR NONLINEAR BIHARMONIC EQUATIONS. Communications in Contemporary Mathematics, 2007, 09, 753-768.	1.2	11
46	Periodic traveling waves in SIRS endemic models. Mathematical and Computer Modelling, 2009, 49, 393-401.	2.0	11
47	On the positive radial solutions of a class of singular semilinear elliptic equations. Journal of Differential Equations, 2012, 253, 481-501.	2.2	11
48	A note on exponential decay properties of ground states for quasilinear elliptic equations. Proceedings of the American Mathematical Society, 2005, 133, 2005-2012.	0.8	10
49	On the structure of solutions to a class of quasilinear elliptic Neumann problems. Journal of Differential Equations, 2005, 212, 208-233.	2.2	10
50	Coexistence of activator and inhibitor for Brusselator diffusion system in chemical or biochemical reactions. Applied Mathematics Letters, 2016, 53, 33-38.	2.7	10
51	Generalized Averages for Solutions of Two-Point Dirichlet Problems. Journal of Mathematical Analysis and Applications, 1999, 239, 478-484.	1.0	9
52	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.	2.4	9
53	Multiple solutions for an elliptic problem related to vortex pairs. Journal of Differential Equations, 2011, 250, 3448-3472.	2.2	9
54	Traveling waves in a three species competition-cooperation system. Communications on Pure and Applied Analysis, 2017, 16, 1103-1120.	0.8	9

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55	Qualitative analysis on positive steady-states for an autocatalytic reaction model in thermodynamics. Discrete and Continuous Dynamical Systems, 2017, 37, 4785-4813.	0.9	9
56	Perturbation of Global Solution Curves for Semilinear Problems. Advanced Nonlinear Studies, 2003, 3, 289-299.	1.7	8
57	MULTIPLE SOLUTIONS FOR AN INHOMOGENEOUS SEMILINEAR ELLIPTIC EQUATION IN R N. Acta Mathematica Scientia, 2003, 23, 1-15.	1.0	8
58	On the shape of least-energy solutions for a class of quasilinear elliptic Neumann problems. IMA Journal of Applied Mathematics, 2007, 72, 113-139.	1.6	8
59	Exact multiplicity of positive solutions for concaveâ€"convex and convexâ€"concave nonlinearities. Journal of Differential Equations, 2014, 257, 3730-3737.	2.2	8
60	Exact multiplicity for periodic solutions of aÂfirst-order differential equation. Journal of Mathematical Analysis and Applications, 2004, 292, 415-422.	1.0	7
61	Infinitely many non-radial solutions for the polyharmonic HÃ©non equation with a critical exponent. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2017, 147, 371-396.	1.2	7
62	Singularity of Super-Brownian Local Time at a Point Catalyst. Annals of Probability, 1995, 23, .	1.8	7
63	The Support of Measure-Valued Branching Processes in a Random Environment. Annals of Probability, 1995, 23, .	1.8	7
64	Eigenfunction and harmonic function estimates in domains with horns and cusps. Communications in Partial Differential Equations, 1997, 22, 1805-1836.	2.2	6
65	Computational optical biopsy. BioMedical Engineering OnLine, 2005, 4, 36.	2.7	6
66	Regularity of the solutions for nonlinear biharmonic equations in â„N. Acta Mathematica Scientia, 2009, 29, 1469-1480.	1.0	6
67	A note on the positive solutions of an inhomogeneous elliptic equation on $\mathbb{R}^n$. Journal of Differential Equations, 2009, 246, 670-680.	2.2	6
68	Habitat choice of multiple pollinators in almond trees and its potential effect on pollen movement and productivity: A theoretical approach using the Shigesadaâ€"Kawasakiâ€"Teramoto model. Journal of Theoretical Biology, 2012, 305, 103-109.	1.7	6
69	BIFURCATIONS IN A HOST-PARASITE MODEL WITH NONLINEAR INCIDENCE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 3291-3307.	1.7	5
70	Locating the peaks of least-energy solutions to a quasilinear elliptic Neumann problem. Journal of Mathematical Analysis and Applications, 2007, 336, 1368-1383.	1.0	5
71	The radial positive solutions of the Matukuma equation in higher dimensional space: Singular solution. Journal of Differential Equations, 2012, 253, 3232-3265.	2.2	5
72	Existence and Stability of Travelling Front Solutions for General Auto-catalytic Chemical Reaction Systems. Mathematical Modelling of Natural Phenomena, 2013, 8, 104-132.	2.4	5

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73	A simplified proof of a conjecture for the perturbed Gelfand equation from combustion theory. Journal of Differential Equations, 2017, 263, 2874-2885.	2.2	5
74	Stability analysis of stationary variational and hemivariational inequalities with applications. Nonlinear Analysis: Real World Applications, 2019, 50, 171-191.	1.7	5
75	Nodal solutions for a quasilinear Schrödinger equation with critical nonlinearity and non-square diffusion. Communications on Pure and Applied Analysis, 2015, 14, 2487-2508.	0.8	5
76	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.	1.7	4
77	Uniqueness of positive radial solutions of a semilinear elliptic equation in an annulus. Discrete and Continuous Dynamical Systems, 2019, 39, 1585-1594.	0.9	4
78	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.	1.9	3
79	Structure of the positive radial F-solutions of the Matukuma equation. International Journal of Mathematics, 2015, 26, 1550013.	0.5	3
80	Multi-peak solutions to two types of free boundary problems. Calculus of Variations and Partial Differential Equations, 2015, 54, 163-182.	1.7	3
81	Stationary Solutions of the Flat Vlasov–Poisson System. Archive for Rational Mechanics and Analysis, 2019, 231, 189-232.	2.4	3
82	Inverse Problems in Bioluminescence Tomography. Series in Contemporary Applied Mathematics, 2006, , 114-148.	0.8	3
83	Existence, uniqueness, and stability of periodic solutions of an equation of duffing type. Discrete and Continuous Dynamical Systems, 2007, 18, 793-807.	0.9	3
84	On the semistability of the minimal positive steady state for a nonhomogeneous semilinear Cauchy problem. Mathematical Research Letters, 2008, 15, 923-939.	0.5	3
85	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.	0.9	3
86	Branches of solutions to semilinear biharmonic equations on R^N. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2006, 136, 733-758.	1.2	2
87	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.	1.7	2
88	Harmonic oscillators at resonance, perturbed by a non-linear friction force. Acta Mathematica Scientia, 2014, 34, 1025-1028.	1.0	2
89	Quantitative Interpretation of a Genetic Model of Carcinogenesis Using Computer Simulations. PLoS ONE, 2011, 6, e16859.	2.5	2
90	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

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91	Verification of bifurcation diagrams for polynomial-like equations. Journal of Computational and Applied Mathematics, 2008, 212, 187-193.	2.0	1
92	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.	1.2	1
93	A computer assisted study of uniqueness of ground state solutions. Journal of Computational and Applied Mathematics, 2012, 236, 2838-2843.	2.0	1
94	Existence and uniqueness of monotone nodal solutions of a semilinear Neumann problem. Nonlinear Analysis: Theory, Methods & Applications, 2016, 134, 105-116.	1.1	1
95	A computer assisted study of uniqueness of nodal ground state solutions. Journal of Computational and Applied Mathematics, 2019, 356, 402-406.	2.0	1
96	Symmetry Properties of Finite Total Mass Solutions of Matukuma Equation. , 1992, , 375-389.		1
97	Monotone properties of the eigenfunction of Neumann problems. Journal Des Mathematiques Pures Et Appliquees, 2019, 130, 112-129.	1.6	0
98	Computing the location and the direction of bifurcation for sign changing solutions. Differential Equations and Applications, 2010, , 1-13.	0.4	0