

Pj Mckenna

List of Publications by Year in descending order

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39
papers

1,130
citations

394421

19
h-index

377865

34
g-index

39
all docs

39
docs citations

39
times ranked

284
citing authors

#	ARTICLE	IF	CITATIONS
1	A mountain pass method for the numerical solution of semilinear elliptic problems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1993, 20, 417-437.	1.1	132
2	On a problem of Bieberbach and Rademacher. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1993, 21, 327-335.	1.1	118
3	Traveling Waves in a Nonlinearly Suspended Beam: Theoretical Results and Numerical Observations. <i>Journal of Differential Equations</i> , 1997, 136, 325-355.	2.2	111
4	On the number of solutions of a nonlinear Dirichlet problem. <i>Journal of Mathematical Analysis and Applications</i> , 1981, 84, 282-294.	1.0	106
5	Large scale oscillatory behaviour in loaded asymmetric systems. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 1987, 4, 243-274.	1.4	82
6	Multiple solutions for a semilinear boundary value problem: a computational multiplicity proof. <i>Journal of Differential Equations</i> , 2003, 195, 243-269.	2.2	72
7	A symmetry theorem and applications to nonlinear partial differential equations. <i>Journal of Differential Equations</i> , 1988, 72, 95-106.	2.2	47
8	Multiplicity results for a class of semilinear elliptic and parabolic boundary value problems. <i>Journal of Mathematical Analysis and Applications</i> , 1985, 107, 371-395.	1.0	46
9	Symmetry and multiplicity for nonlinear elliptic differential equations with boundary blow-up. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1997, 28, 1213-1225.	1.1	42
10	A computer-assisted existence and multiplicity proof for travelling waves in a nonlinearly supported beam. <i>Journal of Differential Equations</i> , 2006, 224, 60-97.	2.2	38
11	Strongly nonlinear perturbations of nonnegative boundary value problems with kernel. <i>Journal of Differential Equations</i> , 1978, 28, 253-265.	2.2	37
12	Critical point theory and boundary value problems with nonlinearities crossing multiple eigenvalues. <i>Communications in Partial Differential Equations</i> , 1985, 10, 107-150.	2.2	32
13	Solitary Waves in Nonlinear Beam Equations: Stability, Fission and Fusion. <i>Nonlinear Dynamics</i> , 2000, 21, 31-53.	5.2	26
14	On the multiplicity of the solution set of some nonlinear boundary value problems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1984, 8, 893-907.	1.1	24
15	Multiple solutions of two point boundary value problems with jumping nonlinearities. <i>Journal of Differential Equations</i> , 1985, 59, 266-281.	2.2	24
16	A singular Gierer-Meinhardt system of elliptic equations. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2000, 17, 503-522.	1.4	23
17	A priori bounds for semilinear equations and a new class of critical exponents for Lipschitz domains. <i>Journal of Functional Analysis</i> , 2007, 244, 220-246.	1.4	22
18	A singular Gierer-Meinhardt system of elliptic equations: the classical case. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2003, 55, 521-541.	1.1	21

#	ARTICLE	IF	CITATIONS
19	A uniqueness result for a semilinear elliptic problem: A computer-assisted proof. <i>Journal of Differential Equations</i> , 2009, 247, 2140-2162.	2.2	20
20	The existence of ground states for fourth-order wave equations. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2010, 73, 367-373.	1.1	16
21	Multiplicity results for a semilinear boundary value problem with the nonlinearity crossing higher Eigenvalues. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1985, 9, 335-350.	1.1	14
22	Multiplicity of solutions of nonlinear boundary value problems with nonlinearities crossing several higher eigenvalues.. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 1986, 1986, 184-200.	0.9	13
23	On the multiplicity of the solution set of some nonlinear boundary value problemsâ€”II. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1986, 10, 805-812.	1.1	10
24	On travelling waves in a suspension bridge model as the wave speed goes to zero. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2011, 74, 3998-4001.	1.1	10
25	A singular elliptic boundary value problem. <i>Applied Mathematics and Computation</i> , 1994, 65, 183-194.	2.2	7
26	Very weak solutions with boundary singularities for semilinear elliptic Dirichlet problems in domains with conical corners. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 352, 496-514.	1.0	7
27	Gidasâ€™Nirenberg results for finite difference equations: Estimates of approximate symmetry. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 334, 206-222.	1.0	6
28	Orbital stability investigations for travelling waves in a nonlinearly supported beam. <i>Journal of Differential Equations</i> , 2019, 268, 80-114.	2.2	5
29	On the structure of the set of solutions to some nonlinear boundary-value problems. <i>Journal of Differential Equations</i> , 1980, 35, 183-199.	2.2	4
30	Lower bounds for the first eigenvalue of the laplacian, with dirichlet boundary conditions and a theorem of hayman. <i>Applicable Analysis</i> , 1984, 18, 55-66.	1.3	4
31	High frequency shaking induced by low frequency forcing: Periodic oscillations in a springâ€™cable system. <i>Nonlinear Analysis: Real World Applications</i> , 2010, 11, 4312-4325.	1.7	3
32	On nonlinear perturbations which cross the eigenvalues. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 1983, 7, 15-19.	1.1	2
33	Recent Multiplicity Results for Nonlinear Boundary Value Problems. <i>North-Holland Mathematics Studies</i> , 1984, , 391-396.	0.2	2
34	Nonlinear periodic flexing in a floating beam. <i>Journal of Computational and Applied Mathematics</i> , 1994, 52, 287-303.	2.0	2
35	Open problems in nonlinear ordinary boundary value problems arising from the study of large-amplitude periodic oscillations in suspension bridges. , 1996, , 349-358.		1
36	Multiplicity results for a class of asymmetric weakly coupled systems of second-order ordinary differential equations. <i>Boundary Value Problems</i> , 2005, 2005, 702485.	0.7	1

#	ARTICLE	IF	CITATIONS
37	Multiple Solutions for a Semilinear Boundary Value Problem: A Computational Multiplicity Proof. Journal of Mathematical Analysis and Applications, 2000, 251, 710-715.	1.0	0
38	Mesh-independent a priori bounds for nonlinear elliptic finite difference boundary value problems. Journal of Mathematical Analysis and Applications, 2014, 419, 496-524.	1.0	0
39	An abstract theorem in nonlinear analysis and two applications. Journal of Mathematical Analysis and Applications, 2016, 438, 720-737.	1.0	0