Thomas Bartsch

List of Publications by Year
in descending order

100 papers	5,416 citations	125106 35 h-index	93651 72 g-index
112 all docs	112 docs citations	112 times ranked	858 citing authors

#	Article	IF	Citations
1	Normalized solutions for a coupled Schrödinger system. Mathematische Annalen, 2021, 380, 1713-1740.	0.7	45
2	Multi-bubble nodal solutions to slightly subcritical elliptic problems with Hardy terms in symmetric domains. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 1801.	0.6	0
3	Normalized solutions of mass supercritical Schrödinger equations with potential. Communications in Partial Differential Equations, 2021, 46, 1729-1756.	1.0	38
4	A spinorial analogue of the Brezis-Nirenberg theorem involving the critical Sobolev exponent. Journal of Functional Analysis, 2021, 280, 108991.	0.7	2
5	Normalized solutions for a class of nonlinear Choquard equations. SN Partial Differential Equations and Applications, 2020, 1, 1.	0.3	23
6	Nodal bubble tower solutions to slightly subcritical elliptic problems with Hardy terms. SN Partial Differential Equations and Applications, 2020, 1, 1.	0.3	1
7	Multiple normalized solutions for a competing system of Schrödinger equations. Calculus of Variations and Partial Differential Equations, 2019, 58, 1.	0.9	96
8	Periodic Solutions of N-Vortex Type Hamiltonian Systems near the Domain Boundary. SIAM Journal on Applied Mathematics, 2018, 78, 977-995.	0.8	5
9	Periodic solutions with prescribed minimal period of vortex type problems in domains. Nonlinearity, 2018, 31, 2156-2172.	0.6	2
10	Correction to: "A natural constraint approach to normalized solutions of nonlinear Schrödinger equations and systems" [J. Funct. Anal. 272 (12) (2017) 4998–5037]. Journal of Functional Analysis, 2018, 275, 516-521.	0.7	13
11	Normalized solutions for nonlinear Schrödinger systems. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2018, 148, 225-242.	0.8	50
12	Nonlinear time-harmonic Maxwell equations in domains. Journal of Fixed Point Theory and Applications, 2017, 19, 959-986.	0.6	16
13	Nonlinear time-harmonic Maxwell equations in an anisotropic bounded medium. Journal of Functional Analysis, 2017, 272, 4304-4333.	0.7	22
14	A natural constraint approach to normalized solutions of nonlinear Schrödinger equations and systems. Journal of Functional Analysis, 2017, 272, 4998-5037.	0.7	122
15	Global continua of periodic solutions of singular first-order Hamiltonian systems of N-vortex type. Mathematische Annalen, 2017, 369, 627-651.	0.7	12
16	Nodal Blow-Up Solutions to Slightly Subcritical Elliptic Problems with Hardy-Critical Term. Advanced Nonlinear Studies, 2017, 17, 55-85.	0.7	3
17	Periodic solutions of singular first-order Hamiltonian systems of N-vortex type. Archiv Der Mathematik, 2016, 107, 413-422.	0.3	3
18	Ground states of a nonlinear curl-curl problem in cylindrically symmetric media. Nonlinear Differential Equations and Applications, 2016, 23, 1.	0.4	17

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19	Normalized solutions for a system of coupled cubic Schrödinger equations on $\mathbb{R}^3$. Journal Des Mathematiques Pures Et Appliquees, 2016, 106, 583-614.	0.8	111
20	Periodic solutions of the N-vortex Hamiltonian system in planar domains. Journal of Differential Equations, 2016, 260, 2275-2295.	1.1	17
21	Infinitely many global continua bifurcating from a single solution of an elliptic problem with concave–convex nonlinearity. Journal of Mathematical Analysis and Applications, 2016, 433, 1006-1036.	0.5	2
22	Critical Points of the N-vortex Hamiltonian in Bounded Planar Domains and Steady State Solutions of the Incompressible Euler Equations. SIAM Journal on Applied Mathematics, 2015, 75, 726-744.	0.8	28
23	Ground and Bound State Solutions of Semilinear Time-Harmonic Maxwell Equations in a Bounded Domain. Archive for Rational Mechanics and Analysis, 2015, 215, 283-306.	1.1	40
24	Bifurcations for a coupled Schrödinger system with multiple components. Zeitschrift Fur Angewandte Mathematik Und Physik, 2015, 66, 2109-2123.	0.7	5
25	Nonlinear Schrödinger equations near an infinite well potential. Calculus of Variations and Partial Differential Equations, 2014, 51, 363-379.	0.9	5
26	Multi-bubble nodal solutions for slightly subcritical elliptic problems in domains with symmetries. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2013, 30, 1027-1047.	0.7	15
27	Normalized solutions of nonlinear Schrödinger equations. Archiv Der Mathematik, 2013, 100, 75-83.	0.3	93
28	Bifurcation in a multicomponent system of nonlinear Schrödinger equations. Journal of Fixed Point Theory and Applications, 2013, 13, 37-50.	0.6	18
29	On the profile of sign-changing solutions of an almost critical problem in the ball. Bulletin of the London Mathematical Society, 2013, 45, 1246-1258.	0.4	8
30	Multibump solutions of nonlinear Schrödinger equations with steep potential well and indefinite potential. Discrete and Continuous Dynamical Systems, 2013, 33, 7-26.	0.5	46
31	Asymptotically radial solutions in expanding annular domains. Mathematische Annalen, 2012, 352, 485-515.	0.7	34
32	N-Vortex Equilibria for Ideal Fluids in Bounded Planar Domains and New Nodal Solutions of the sinh-Poisson and the Lane-Emden-Fowler Equations. Communications in Mathematical Physics, 2010, 297, 653-686.	1.0	35
33	A Liouville theorem, a-priori bounds, and bifurcating branches of positive solutions for a nonlinear elliptic system. Calculus of Variations and Partial Differential Equations, 2010, 37, 345-361.	0.9	185
34	Solutions concentrating on higher dimensional subsets for singularly perturbed elliptic equations II. Journal of Differential Equations, 2010, 248, 2746-2767.	1.1	6
35	Some critical minimization problems for functions of bounded variations. Journal of Functional Analysis, 2010, 259, 3025-3035.	0.7	8
36	Sign-Changing Solutions to Equations of Elliptic Type. International Journal of Differential Equations, 2010, 2010, 1-2.	0.3	1

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37	Liouville-type theorems and asymptotic behavior of nodal radial solutions of semilinear heat equations. Journal of the European Mathematical Society, 2010, 13, 219-247.	0.7	25
38	On the Fuйik point spectrum for Schrödinger operators on $${\mathbb{R}}^{N}$$. Journal of Fixed Point Theory and Applications, 2009, 5, 305-317.	0.6	8
39	Topological and Variational Methods for Partial Differential Equations. Oberwolfach Reports, 2009, 6, 1427-1486.	0.0	0
40	Poincaré-Hopf type formulas on convex sets of Banach spaces. Topological Methods in Nonlinear Analysis, 2009, 34, 213.	0.2	5
41	Morse theory and nonlinear differential equations. , 2008, , 41-73.		6
42	A priori bounds, nodal equilibria and connecting orbits in indefinite superlinear parabolic problems. Transactions of the American Mathematical Society, 2008, 360, 3493-3540.	0.5	16
43	Solutions concentrating on higher dimensional subsets for singularly perturbed elliptic equations I. Indiana University Mathematics Journal, 2008, 57, 1599-1632.	0.4	7
44	An invariant set generated by the domain topology for parabolic semiflows with small diffusion. Discrete and Continuous Dynamical Systems, 2007, 18, 613-626.	0.5	2
45	Configuration spaces, transfer, and 2-nodal solutions of a semiclassical nonlinear Schrödinger equation. Mathematische Annalen, 2007, 338, 147-185.	0.7	32
46	Semiclassical symmetric Schrödinger equations: Existence of solutions concentrating simultaneously on several spheres. Zeitschrift Fur Angewandte Mathematik Und Physik, 2007, 58, 778-804.	0.7	20
47	Existence and non-existence of solutions to elliptic equations related to the Caffarelli–Kohn–Nirenberg inequalities. Calculus of Variations and Partial Differential Equations, 2007, 30, 113-136.	0.9	46
48	Bound states for a coupled Schrödinger system. Journal of Fixed Point Theory and Applications, 2007, 2, 353-367.	0.6	163
49	Topological and Variational Methods for Differential Equations. Oberwolfach Reports, 2006, 2, 1601-1678.	0.0	0
50	Chapter 2 Hamiltonian Systems: Periodic and Homoclinic Solutions by Variational Methods. Handbook of Differential Equations: Ordinary Differential Equations, 2006, , 77-146.	0.2	13
51	Nodal solutions of nonlinear elliptic Dirichlet problems on radial domains. Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni, 2006, 17, 69-85.	0.3	9
52	Existence and nonexistence results for critical growth polyharmonic elliptic systems. Journal of Differential Equations, 2006, 220, 531-543.	1.1	21
53	Solutions of nonlinear Dirac equations. Journal of Differential Equations, 2006, 226, 210-249.	1.1	75
54	On the Existence and the Profile of Nodal solutions of Elliptic Equations Involving Critical Growth. Calculus of Variations and Partial Differential Equations, 2006, 26, 265-282.	0.9	42

#	ARTICLE	IF	CITATIONS
55	Deformation theorems on non-metrizable vector spaces and applications to critical point theory. Mathematische Nachrichten, 2006, 279, 1267-1288.	0.4	146
56	Three nodal solutions of singularly perturbed elliptic equations on domains without topology. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2005, 22, 259-281.	0.7	146
57	Partial symmetry of least energy nodal solutions to some variational problems. Journal D'Analyse Mathematique, 2005, 96, 1-18.	0.4	162
58	Superstable Manifolds of Semilinear Parabolic Problems. Journal of Dynamics and Differential Equations, 2005, 17, 115-173.	1.0	11
59	The Dirichlet Problem for Superlinear Elliptic Equations. Handbook of Differential Equations: Stationary Partial Differential Equations, 2005, , 1-55.	0.7	69
60	Nodal solutions of a p-Laplacian equation. Proceedings of the London Mathematical Society, 2005, 91, 129-152.	0.6	134
61	Sign Changing Solutions of Superlinear Schrödinger Equations. Communications in Partial Differential Equations, 2005, 29, 25-42.	1.0	162
62	The effect of the domain's configuration space on the number of nodal solutions of singularly perturbed elliptic equations. Topological Methods in Nonlinear Analysis, 2005, 26, 109.	0.2	14
63	Multiple solutions of a critical polyharmonic equation. Journal Fur Die Reine Und Angewandte Mathematik, 2004, 2004, .	0.4	15
64	On a superlinear elliptic p-Laplacian equation. Journal of Differential Equations, 2004, 198, 149-175.	1.1	143
65	MULTIPLE SIGN CHANGING SOLUTIONS OF A QUASILINEAR ELLIPTIC EIGENVALUE PROBLEM INVOLVING THE p-LAPLACIAN. Communications in Contemporary Mathematics, 2004, 06, 245-258.	0.6	30
66	A Sobolev inequality with remainder term and critical equations on domains with topology for the polyharmonic operator. Calculus of Variations and Partial Differential Equations, 2003, 18, 253-268.	0.9	71
67	Critical equations for the polyharmonic operator. , 2003, , .		1
68	A note on additional properties of sign changing solutions to superlinear elliptic equations. Topological Methods in Nonlinear Analysis, 2003, 22, 1.	0.2	98
69	Homoclinic solutions of an infinite-dimensional Hamiltonian system. Mathematische Zeitschrift, 2002, 240, 289-310.	0.4	57
70	Periodic solutions of superlinear beam and membrane equations with perturbations from symmetry. Nonlinear Analysis: Theory, Methods & Applications, 2001, 44, 727-748.	0.6	10
71	Critical Point Theory on Partially Ordered Hilbert Spaces. Journal of Functional Analysis, 2001, 186, 117-152.	0.7	110
72	NONLINEAR SCHRÖDINGER EQUATIONS WITH STEEP POTENTIAL WELL. Communications in Contemporary Mathematics, 2001, 03, 549-569.	0.6	288

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73	Extremal sign changing solutions of semilinear Dirichlet problems. , 2000, , 1-10.		0
74	On a nonlinear Schrödinger equation with periodic potential. Mathematische Annalen, 1999, 313, 15-37.	0.7	116
75	Sign changing solutions of nonlinear Schrödinger equations. Topological Methods in Nonlinear Analysis, 1999, 13, 191.	0.2	35
76	A generalization of the Weinstein-Moser theorems on periodic orbits of a Hamiltonian system near an equilibrium. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 1997, 14, 691-718.	0.7	18
77	Periodic solutions of even Hamiltonian systems on the torus. Mathematische Zeitschrift, 1997, 224, 65-76.	0.4	5
78	Even Hamiltonian systems on Tori and cotangent spaces of Tori. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 4123-4134.	0.6	0
79	Periodic Solutions of Spatially Periodic, Even Hamiltonian Systems. Journal of Differential Equations, 1997, 135, 103-128.	1.1	3
80	Critical point theory for asymptotically quadratic functionals and applications to problems with resonance. Nonlinear Analysis: Theory, Methods & Applications, 1997, 28, 419-441.	0.6	265
81	Borsuk-Ulam theorems, the Lusternik-Schnirelmann category and index theories. , 1996, , 2135-2146.		1
82	Radial and nonradial solutions of a nonlinear scalar field equation. , 1996, , 537-548.		0
83	Critical Point Theory for Indefinite Functionals with Symmetries. Journal of Functional Analysis, 1996, 138, 107-136.	0.7	53
84	On the existence of sign changing solutions for semilinear Dirichlet problems. Topological Methods in Nonlinear Analysis, 1996, 7, 115.	0.2	108
85	On an elliptic equation with concave and convex nonlinearities. Proceedings of the American Mathematical Society, 1995, 123, 3555-3561.	0.4	202
86	Existence and multiplicity results for some superlinear elliptic problems on RN. Communications in Partial Differential Equations, 1995, 20, 1725-1741.	1.0	612
87	Periodic solutions of non-autonomous Hamiltonian systems with symmetries.. Journal Fur Die Reine Und Angewandte Mathematik, 1994, 1994, 149-160.	0.4	4
88	Infinitely Many Nonradial Solutions of a Euclidean Scalar Field Equation. Journal of Functional Analysis, 1993, 117, 447-460.	0.7	133
89	Infinitely many solutions of a symmetric Dirichlet problem. Nonlinear Analysis: Theory, Methods & Applications, 1993, 20, 1205-1216.	0.6	164
90	Infinitely many radial solutions of a semilinear elliptic problem on ?N. Archive for Rational Mechanics and Analysis, 1993, 124, 261-276.	1.1	157

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91	Zeitschrift, 1993, 212, 285-292.	0.4	7
92	On the existence of Borsuk-Ulam theorems. Topology, 1992, 31, 533-543.	0.4	22
93	The Conley index over a space. Mathematische Zeitschrift, 1992, 209, 167-177.	0.4	9
94	The compact category and multiple periodic solutions of Hamiltonian systems on symmetric starshaped energy surfaces. Mathematische Annalen, 1992, 293, 523-542.	0.7	7
95	The global structure of the zero set of a family of semilinear Fredholm maps. Nonlinear Analysis: Theory, Methods & Applications, 1991, 17, 313-331.	0.6	13
96	On the genus of representation spheres. Commentarii Mathematici Helvetici, 1990, 65, 85-95.	0.4	28
97	Critical orbits of symmetric functionals. Manuscripta Mathematica, 1990, 66, 129-152.	0.3	7
98	Bifurcation theory for symmetric potential operators and the equivariant cup-length. Mathematische Zeitschrift, 1990, 204, 341-356.	0.4	15
99	Bifurcation theory for metric parameter spaces. Lecture Notes in Mathematics, 1989, , 1-8.	0.1	0
100	A global index for bifurcation of fixed points.. Journal Fur Die Reine Und Angewandte Mathematik, 1988, 1988, 181-197.	0.4	5