Monica Musso

List of Publications by Year
in descending order

100 papers	1,904 citations	236925 25 h-index	302126 39 g-index
101 all docs	101 docs citations	101 times ranked	377 citing authors

#	Article	IF	Citations
1	Two-bubble solutions in the super-critical Bahri-Coron's problem. Calculus of Variations and Partial Differential Equations, 2003, 16, 113-145.	1.7	172
2	Singular limits in Liouville-type equations. Calculus of Variations and Partial Differential Equations, 2005, 24, 47-81.	1.7	161
3	Large energy entire solutions for the Yamabe equation. Journal of Differential Equations, 2011, 251, 2568-2597.	2.2	70
4	Concentrating solutions for a planar elliptic problem involving nonlinearities with large exponent. Journal of Differential Equations, 2006, 227, 29-68.	2.2	61
5	â€œBubble-towerâ€•radial solutions in the slightly supercritical Brezisâ€"Nirenberg problem. Journal of Differential Equations, 2003, 193, 280-306.	2.2	60
6	Multispike solutions for a nonlinear elliptic problem involving critical Sobolev exponent. Indiana University Mathematics Journal, 2002, 51, 0-0.	0.9	57
7	Multi-Peak Solutions for Super-Critical Elliptic Problems in Domains with Small Holes. Journal of Differential Equations, 2002, 182, 511-540.	2.2	54
8	Sign-changing blowing-up solutions for supercritical Bahriâ€"Coronâ€™s problem. Calculus of Variations and Partial Differential Equations, 2016, 55, 1.	1.7	51
9	Tower of bubbles for almost critical problems in general domains. Journal Des Mathematiques Pures Et Appliquees, 2010, 93, 1-40.	1.6	46
10	Super-critical boundary bubbling in a semilinear Neumann problem. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2005, 22, 45-82.	1.4	42
11	MULTI-BUBBLE SOLUTIONS FOR SLIGHTLY SUPER-CRITICAL ELLIPTIC PROBLEMS IN DOMAINS WITH SYMMETRIES. Bulletin of the London Mathematical Society, 2003, 35, 513-521.	0.8	40
12	The Brezisâ€"Nirenberg problem near criticality in dimension 3. Journal Des Mathematiques Pures Et Appliquees, 2004, 83, 1405-1456.	1.6	38
13	Finite-energy sign-changing solutions with dihedral symmetry for the stationary nonlinear SchrÃ¶dinger equation. Journal of the European Mathematical Society, 2012, 14, 1923-1953.	1.4	38
14	The Supercritical Laneâ€"Emdenâ€"Fowler Equation in Exterior Domains. Communications in Partial Differential Equations, 2007, 32, 1225-1243.	2.2	36
15	New solutions for Trudingerâ€"Moser critical equations in $\mathbb{R}^2$. Journal of Functional Analysis, 2010, 258, 421-457.	1.4	36
16	Fast and slow decay solutions for supercritical elliptic problems in exterior domains. Calculus of Variations and Partial Differential Equations, 2008, 32, 453-480.	1.7	35
17	Sign Changing Tower of Bubbles for an Elliptic Problem at the Critical Exponent in Pierced Non-Symmetric Domains. Communications in Partial Differential Equations, 2010, 35, 1419-1457.	2.2	34
18	Nondegeneracy of entire solutions of a singular Liouvillle equation. Proceedings of the American Mathematical Society, 2012, 140, 581-588.	0.8	32

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19	Gluing Methods for Vortex Dynamics in Euler Flows. Archive for Rational Mechanics and Analysis, 2020, 235, 1467-1530.	2.4	31
20	A Morse index theorem for perturbed geodesics on semi-Riemannian manifolds. Topological Methods in Nonlinear Analysis, 2005, 25, 69.	0.2	30
21	Sign changing solutions to a nonlinear elliptic problem involving the critical Sobolev exponent in pierced domainsâ˜†â˜†The first author is supported by Fondecyt 1040936 (Chile). The second author is supported by the M.I.U.R. National Project â€œMetodi variazionali e topologici nello studio di fenomeni non lineariâ€. Journal Des Mathematiques Pures Et Appliquees, 2006, 86, 510-528.	1.6	29
22	Standing waves for supercritical nonlinear SchrÃ¶dinger equations. Journal of Differential Equations, 2007, 236, 164-198.	2.2	28
23	Variational reduction for Ginzburgâ€"Landau vortices. Journal of Functional Analysis, 2006, 239, 497-541.	1.4	27
24	Two-dimensional Euler flows with concentrated vorticities. Transactions of the American Mathematical Society, 2010, 362, 6381-6381.	0.9	27
25	Nondegeneracy of Nodal Solutions to the Critical Yamabe Problem. Communications in Mathematical Physics, 2015, 340, 1049-1107.	2.2	26
26	Bubbling along boundary geodesics near the second critical exponent. Journal of the European Mathematical Society, 2010, 12, 1553-1605.	1.4	25
27	On the existence and profile of nodal solutions for a two-dimensional elliptic problem with large exponent in nonlinearity. Proceedings of the London Mathematical Society, 2007, 94, 497-519.	1.3	24
28	Existence theorems of the fractional Yamabe problem. Analysis and PDE, 2018, 11, 75-113.	1.4	24
29	Concentrating solutions in a two-dimensional elliptic problem with exponential Neumann data. Journal of Functional Analysis, 2005, 227, 430-490.	1.4	23
30	Non-degeneracy of multi-bubbling solutions for the prescribed scalar curvature equations and applications. Journal of Functional Analysis, 2020, 279, 108553.	1.4	23
31	Boundary singularities for weak solutions of semilinear elliptic problems. Journal of Functional Analysis, 2007, 253, 241-272.	1.4	21
32	Type II Blow-up in the 5-dimensional Energy Critical Heat Equation. Acta Mathematica Sinica, English Series, 2019, 35, 1027-1042.	0.6	20
33	Singular limits for the bi-Laplacian operator with exponential nonlinearity in (R^{4}). Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2008, 25, 1015-1041.	1.4	19
34	Bubbling on boundary submanifolds for the Linâ€"Niâ€"Takagi problem at higher critical exponents. Journal of the European Mathematical Society, 2014, 16, 1687-1748.	1.4	18
35	Morse index and bifurcation of *p*-geodesics on semi Riemannian manifolds. ESAIM - Control, Optimisation and Calculus of Variations, 2007, 13, 598-621.	1.3	17
36	Multipeak solutions to the Bahriâ€"Coron problem in domains with a shrinking hole. Journal of Functional Analysis, 2009, 256, 275-306.	1.4	17

#	ARTICLE	IF	CITATIONS
37	On spikes concentrating on line-segments to a semilinear Neumann problem. Journal of Differential Equations, 2011, 251, 881-901.	2.2	17
38	Beyond the Trudinger-Moser supremum. Calculus of Variations and Partial Differential Equations, 2012, 44, 543-576.	1.7	17
39	Infinite-time blow-up for the 3-dimensional energy-critical heat equation. Analysis and PDE, 2020, 13, 215-274.	1.4	17
40	Travelling and rotating solutions to the generalized inviscid surface quasi-geostrophic equation. Transactions of the American Mathematical Society, 2021, 374, 6665-6689.	0.9	17
41	Green's function and infinite-time bubbling in the critical nonlinear heat equation. Journal of the European Mathematical Society, 2019, 22, 283-344.	1.4	16
42	DOUBLE BLOW-UP SOLUTIONS FOR A BREZIS–NIRENBERG TYPE PROBLEM. Communications in Contemporary Mathematics, 2003, 05, 775-802.	1.2	15
43	Multiple solutions for a non-homogeneous elliptic equation at the critical exponent. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2004, 134, 69-87.	1.2	15
44	Doubling nodal solutions to the Yamabe equation in $\mathbb{R}^n$ with maximal rank. Journal Des Mathematiques Pures Et Appliquees, 2021, 152, 145-188.	1.6	14
45	Sign changing solutions to a Bahri-Coron's problem in pierced domains. Discrete and Continuous Dynamical Systems, 2008, 21, 295-306.	0.9	14
46	Local bifurcation from the second eigenvalue of the Laplacian in a square. Proceedings of the American Mathematical Society, 2003, 131, 3499-3505.	0.8	12
47	Solutions of the Allen-Cahn equation which are invariant under screw-motion. Manuscripta Mathematica, 2012, 138, 273-286.	0.6	12
48	Nontopological Condensates for the Self–Dual Chern–Simons–Higgs Model. Communications on Pure and Applied Mathematics, 2015, 68, 1191-1283.	3.1	12
49	New blow-up phenomena for SU(n+ 1) Toda system. Journal of Differential Equations, 2016, 260, 6232-6266.	2.2	12
50	Singular Limits of a Two-Dimensional Boundary Value Problem Arising in Corrosion Modelling. Archive for Rational Mechanics and Analysis, 2006, 182, 181-221.	2.4	11
51	Triple Junction Solutions for a Singularly Perturbed Neumann Problem. SIAM Journal on Mathematical Analysis, 2011, 43, 2519-2541.	1.9	11
52	Torus action on S^n and sign changing solutions for conformally invariant equations. Annali Della Scuola Normale Superiore Di Pisa Classe Di Scienze, 2013, , 209-237.	0.2	11
53	Bubbling solutions for an exponential nonlinearity in $\mathbb{R}^2$. Journal of Differential Equations, 2014, 257, 2259-2302.	2.2	10
54	Desingularization of Clifford torus and nonradial solutions to the Yamabe problem with maximal rank. Journal of Functional Analysis, 2019, 276, 2470-2523.	1.4	10

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55	Infinite time blow-up for the fractional heat equation with critical exponent. Mathematische Annalen, 2019, 375, 361-424.	1.4	10
56	Bistable Boundary Reactions in Two Dimensions. Archive for Rational Mechanics and Analysis, 2011, 200, 89-140.	2.4	9
57	Solutions without any symmetry for semilinear elliptic problems. Journal of Functional Analysis, 2016, 270, 884-956.	1.4	9
58	A non-compactness result on the fractional Yamabe problem in large dimensions. Journal of Functional Analysis, 2017, 273, 3759-3830.	1.4	9
59	Existence and stability of infinite time bubble towers in the energy critical heat equation. Analysis and PDE, 2021, 14, 1557-1598.	1.4	9
60	A Phase Plane Analysis of the ?Multi-Bubbling? Phenomenon in Some Slightly Supercritical Equations. Monatshefte Fur Mathematik, 2004, 142, 57-79.	0.9	7
61	Nonradial Solutions to Critical Elliptic Equations of Caffarelliâ€"Kohnâ€"Nirenberg Type. International Mathematics Research Notices, 2012, 2012, 4120-4162.	1.0	7
62	Super-position of spikes for a slightly super-critical elliptic equation in R^N. Discrete and Continuous Dynamical Systems, 2005, 12, 747-760.	0.9	7
63	Geometry driven type II higher dimensional blow-up for the critical heat equation. Journal of Functional Analysis, 2021, 280, 108788.	1.4	6
64	Travelling helices and the vortex filament conjecture in the incompressible Euler equations. Calculus of Variations and Partial Differential Equations, 2022, 61, .	1.7	6
65	Infinitely many positive solutions for a nonlinear field equation with super-critical growth. Proceedings of the London Mathematical Society, 2016, 112, 1-26.	1.3	5
66	Multispike solutions for the Brezisâ€"Nirenberg problem in dimension three. Journal of Differential Equations, 2018, 264, 6663-6709.	2.2	5
67	Interior bubbling solutions for the critical Lin-Ni-Takagi problem in dimension 3. Journal D'Analyse Mathematique, 2019, 137, 813-843.	0.8	5
68	New Type of Sign-Changing Blow-up Solutions for Scalar Curvature Type Equations. International Mathematics Research Notices, 2019, 2019, 4159-4197.	1.0	5
69	Multiple bubbling for the exponential nonlinearity in the slightly supercritical case. Communications on Pure and Applied Analysis, 2006, 5, 463-482.	0.8	5
70	Multibump solutions for a class of nonlinear elliptic problems. Calculus of Variations and Partial Differential Equations, 1998, 7, 53-86.	1.7	4
71	Curve-Like Concentration Layers for a Singularly Perturbed Nonlinear Problem with Critical Exponents. Communications in Partial Differential Equations, 2014, 39, 1048-1103.	2.2	4
72	Sign-changing blowing-up solutions for a non-homogeneous elliptic equation at the critical exponent. Journal of Fixed Point Theory and Applications, 2017, 19, 345-361.	1.1	4

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73	Compactness of scalar-flat conformal metrics on low-dimensional manifolds with constant mean curvature on boundary. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2021, 38, 1763-1793.	1.4	4
74	A Phase Plane Analysis of the â€œMulti-Bubblingâ€•Phenomenon in Some Slightly Supercritical Equations. , 2004, , 57-79.		4
75	Non-degeneracy and existence of new solutions for the SchrÃ¶dinger equations. Journal of Differential Equations, 2022, 326, 254-279.	2.2	4
76	Concentration on minimal submanifolds for a Yamabe-type problem. Communications in Partial Differential Equations, 2016, 41, 1379-1425.	2.2	3
77	Blow-up for sign-changing solutions of the critical heat equation in domains with a small hole. Communications in Contemporary Mathematics, 2016, 18, 1550017.	1.2	3
78	Bubbling solutions for Moserâ€"Trudinger type equations on compact Riemann surfaces. Journal of Functional Analysis, 2018, 275, 2684-2739.	1.4	3
79	Positive solutions of nonlinear elliptic problems approximating degenerate equations. Topological Methods in Nonlinear Analysis, 1995, 6, 371.	0.2	3
80	Nonlinear elliptic problems approximating degenerate equations. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 5071-5076.	1.1	2
81	New Nonlinear Equations with Soliton-Like Solutions. Letters in Mathematical Physics, 2001, 57, 161-173.	1.1	2
82	Chapter 3 Bubbling in nonlinear elliptic problems near criticality. Handbook of Differential Equations: Stationary Partial Differential Equations, 2006, 3, 215-316.	0.7	2
83	Multiple blow-up solutions for an exponential nonlinearity with potential in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msup><mml:mrow><mml:mi mathvariant="double-struck">R</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup></mml:math Nonlinear Analysis: Theory, Methods & Applications, 2015, 119, 418-443.	1.1	2
84	Critical points of the Trudingerâ€"Moser trace functional with high energy levels. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2015, 32, 59-95.	1.4	2
85	Interface Dynamics in Semilinear Wave Equations. Communications in Mathematical Physics, 2020, 373, 971-1009.	2.2	2
86	High energy sign-changing solutions for Coron's problem. Journal of Differential Equations, 2021, 271, 916-962.	2.2	2
87	A compactness theorem for the fractional Yamabe problem, Part I: The nonumbilic conformal infinity. Journal of the European Mathematical Society, 2021, 23, 3017-3073.	1.4	2
88	BUBBLING AND CRITICALITY IN TWO AND HIGHER DIMENSIONS. , 2005, , .		2
89	Some nonlinear elliptic equations in. Nonlinear Analysis: Theory, Methods & Applications, 2000, 39, 837-860.	1.1	1
90	Multiple blow-up solutions for an anisotropic Emden Fowler equation in ${\oldsymbol{\mathbb{R}}}^{2}$. Nonlinearity, 2015, 28, 1761-1781.	1.4	1

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91	Multiple blow-up solutions for an anisotropic 2-dimensional nonlinear Neumann problem. Mathematische Zeitschrift, 2015, 281, 849-875.	0.9	1
92	Blow up solutions for a Liouville equation with HÃ©non term. Nonlinear Analysis: Theory, Methods & Applications, 2015, 129, 320-342.	1.1	1
93	Entire sign-changing solutions with finite energy to the fractional Yamabe equation. Pacific Journal of Mathematics, 2016, 283, 85-114.	0.5	1
94	New solutions for critical Neumann problems in $\mathbb{R}^2$. Advances in Nonlinear Analysis, 2017, 8, 615-644.	2.6	1
95	Bubbling solutions for an elliptic equation with exponential Neumann data in R^2. Annali Della Scuola Normale Superiore Di Pisa Classe Di Scienze, 2014, , 699-744.	0.2	1
96	NontriviaL solutions of some nonlinear elliptic problems. Communications in Partial Differential Equations, 1999, 24, 1655-1708.	2.2	0
97	Concentration at sub-manifolds for an elliptic Dirichlet problem near high critical exponents. Proceedings of the London Mathematical Society, 2019, 118, 379-415.	1.3	0
98	A semilinear elliptic equation with competing powers and a radial potential. Journal D'Analyse Mathematique, 2020, 140, 283-298.	0.8	0
99	A refined result on sign changing solutions for a critical elliptic problem. Communications on Pure and Applied Analysis, 2012, 12, 125-155.	0.8	0
100	Bubbling on boundary submanifolds for a semilinear Neumann problem near high critical exponents. Discrete and Continuous Dynamical Systems, 2015, 36, 3035-3076.	0.9	0