

Xavier Cabré©

List of Publications by Year in descending order

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60
papers

4,086
citations

201674

27
h-index

155660

55
g-index

63
all docs

63
docs citations

63
times ranked

1148
citing authors

#	ARTICLE	IF	CITATIONS
1	Positive solutions of nonlinear problems involving the square root of the Laplacian. <i>Advances in Mathematics</i> , 2010, 224, 2052-2093.	1.1	443
2	Nonlinear equations for fractional Laplacians, I: Regularity, maximum principles, and Hamiltonian estimates. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2014, 31, 23-53.	1.4	354
3	Entire solutions of semilinear elliptic equations in \mathbb{R}^3 and a conjecture of De Giorgi. <i>Journal of the American Mathematical Society</i> , 2000, 13, 725-739.	3.9	236
4	The parameterization method for invariant manifolds I: Manifolds associated to non-resonant subspaces. <i>Indiana University Mathematics Journal</i> , 2003, 52, 283-328.	0.9	186
5	Layer solutions in a half-space for boundary reactions. <i>Communications on Pure and Applied Mathematics</i> , 2005, 58, 1678-1732.	3.1	182
6	The parameterization method for invariant manifolds III: overview and applications. <i>Journal of Differential Equations</i> , 2005, 218, 444-515.	2.2	181
7	Nonlinear equations for fractional Laplacians II: Existence, uniqueness, and qualitative properties of solutions. <i>Transactions of the American Mathematical Society</i> , 2015, 367, 911-941.	0.9	147
8	Title is missing!. <i>Acta Applicandae Mathematicae</i> , 2001, 65, 9-33.	1.0	139
9	Existence versus explosion instantanée pour des équations de la chaleur linéaires avec potentiel singulier. <i>Comptes Rendus Mathématique</i> , 1999, 329, 973-978.	0.5	128
10	The parameterization method for invariant manifolds II: regularity with respect to parameters. <i>Indiana University Mathematics Journal</i> , 2003, 52, 329-360.	0.9	125
11	On the alexandroff-bakelman-pucci estimate and the reversed Hölder inequality for solutions of elliptic and parabolic equations. <i>Communications on Pure and Applied Mathematics</i> , 1995, 48, 539-570.	3.1	111
12	The Influence of Fractional Diffusion in Fisher-KPP Equations. <i>Communications in Mathematical Physics</i> , 2013, 320, 679-722.	2.2	101
13	Regularity of radial minimizers and extremal solutions of semilinear elliptic equations. <i>Journal of Functional Analysis</i> , 2006, 238, 709-733.	1.4	87
14	Sobolev and isoperimetric inequalities with monomial weights. <i>Journal of Differential Equations</i> , 2013, 255, 4312-4336.	2.2	60
15	Weak Eigenfunctions for the Linearization of Extremal Elliptic Problems. <i>Journal of Functional Analysis</i> , 1998, 156, 30-56.	1.4	59
16	Regularity of minimizers of semilinear elliptic problems up to dimension 4. <i>Communications on Pure and Applied Mathematics</i> , 2010, 63, 1362-1380.	3.1	58
17	Sharp energy estimates for nonlinear fractional diffusion equations. <i>Calculus of Variations and Partial Differential Equations</i> , 2014, 49, 233-269.	1.7	57
18	Energy estimates and 1-D symmetry for nonlinear equations involving the half-Laplacian. <i>Discrete and Continuous Dynamical Systems</i> , 2010, 28, 1179-1206.	0.9	57

#	ARTICLE	IF	CITATIONS
19	Saddle-shaped solutions of bistable diffusion equations in all of \mathbb{R}^2 . Journal of the European Mathematical Society, 2009, 11, 819-843.	1.4	50
20	Nondivergent elliptic equations on manifolds with nonnegative curvature. , 1997, 50, 623-665.		48
21	Interior $C^{2,\alpha}$ regularity theory for a class of nonconvex fully nonlinear elliptic equations. Journal Des Mathematiques Pures Et Appliquees, 2003, 82, 573-612.	1.6	45
22	Elliptic PDE's in probability and geometry: Symmetry and regularity of solutions. Discrete and Continuous Dynamical Systems, 2008, 20, 425-457.	0.9	42
23	Regularity of Stable Solutions up to Dimension 7 in Domains of Double Revolution. Communications in Partial Differential Equations, 2013, 38, 135-154.	2.2	37
24	Sharp isoperimetric inequalities via the ABP method. Journal of the European Mathematical Society, 2016, 18, 2971-2998.	1.4	37
25	On the stability of radial solutions of semilinear elliptic equations in all of. Comptes Rendus Mathematique, 2004, 338, 769-774.	0.3	36
26	Semi-stable and extremal solutions of reaction equations involving the p -Laplacian. Communications on Pure and Applied Analysis, 2007, 6, 43-67.	0.8	33
27	Propagation de fronts dans les Équations de Fisher-KPP avec diffusion fractionnaire. Comptes Rendus Mathematique, 2009, 347, 1361-1366.	0.3	31
28	Stable solutions to semilinear elliptic equations are smooth up to dimension ≤ 9 . Acta Mathematica, 2020, 224, 187-252.	3.9	30
29	Curves and surfaces with constant nonlocal mean curvature: Meeting Alexandrov and Delaunay. Journal Fur Die Reine Und Angewandte Mathematik, 2018, 2018, 253-280.	0.9	28
30	Topics in regularity and qualitative properties of solutions of nonlinear elliptic equations. Discrete and Continuous Dynamical Systems, 2002, 8, 331-359.	0.9	27
31	Regularity of radial minimizers of reaction equations involving the p -Laplacian. Calculus of Variations and Partial Differential Equations, 2009, 34, 475-494.	1.7	24
32	Uniqueness and stability of saddle-shaped solutions to the Allen-Cahn equation. Journal Des Mathematiques Pures Et Appliquees, 2012, 98, 239-256.	1.6	24
33	Qualitative Properties of Saddle-Shaped Solutions to Bistable Diffusion Equations. Communications in Partial Differential Equations, 2010, 35, 1923-1957.	2.2	22
34	An extension problem for sums of fractional Laplacians and 1-D symmetry of phase transitions. Nonlinear Analysis: Theory, Methods & Applications, 2016, 137, 246-265.	1.1	19
35	Euclidean balls solve some isoperimetric problems with nonradial weights. Comptes Rendus Mathematique, 2012, 350, 945-947.	0.3	18
36	Propagation in Fisher-KPP type equations with fractional diffusion in periodic media. Comptes Rendus Mathematique, 2012, 350, 885-890.	0.3	17

#	ARTICLE	IF	CITATIONS
37	The Bernstein Technique for Integro-Differential Equations. Archive for Rational Mechanics and Analysis, 2022, 243, 1597-1652.	2.4	17
38	Geometric-type Sobolev inequalities and applications to the regularity of minimizers. Journal of Functional Analysis, 2013, 264, 303-325.	1.4	16
39	A gradient estimate for nonlocal minimal graphs. Duke Mathematical Journal, 2019, 168, .	1.5	15
40	Boundedness of Stable Solutions to Semilinear Elliptic Equations: A Survey. Advanced Nonlinear Studies, 2017, 17, 355-368.	1.7	14
41	Isoperimetric, Sobolev, and eigenvalue inequalities via the Alexandroff-Bakelman-Pucci method: A survey. Chinese Annals of Mathematics Series B, 2017, 38, 201-214.	0.4	13
42	Delaunay hypersurfaces with constant nonlocal mean curvature. Journal Des Mathematiques Pures Et Appliquees, 2018, 110, 32-70.	1.6	13
43	Regularity for viscosity solutions of fully nonlinear equations $F(D^2u) = 0$. Topological Methods in Nonlinear Analysis, 1995, 6, 31.	0.2	13
44	Near-sphere lattices with constant nonlocal mean curvature. Mathematische Annalen, 2018, 370, 1513-1569.	1.4	12
45	Regularity of Minimizers for Three Elliptic Problems: Minimal Cones, Harmonic Maps, and Semilinear Equations. Pure and Applied Mathematics Quarterly, 2007, 3, 801-825.	0.4	11
46	A Mean Field Equation on a Torus: One-Dimensional Symmetry of Solutions. Communications in Partial Differential Equations, 2005, 30, 1315-1330.	2.2	10
47	Stable s -minimal cones in \mathbb{R}^3 are flat for $s < 1$. Journal Fur Die Reine Und Angewandte Mathematik, 2020, 2020, 157-180.	0.9	9
48	A new proof of the boundedness results for stable solutions to semilinear elliptic equations. Discrete and Continuous Dynamical Systems, 2019, 39, 7249-7264.	0.9	6
49	Stable Solutions to Some Elliptic Problems: Minimal Cones, the Allen-Cahn Equation, and Blow-Up Solutions. Lecture Notes in Mathematics, 2018, , 1-45.	0.2	5
50	A priori estimates for semistable solutions of semilinear elliptic equations. Discrete and Continuous Dynamical Systems, 2015, 36, 601-609.	0.9	5
51	Traveling wave solutions in a half-space for boundary reactions. Analysis and PDE, 2015, 8, 333-364.	1.4	4
52	Calibrations and null-Lagrangians for nonlocal perimeters and an application to the viscosity theory. Annali Di Matematica Pura Ed Applicata, 2020, 199, 1979-1995.	1.0	4
53	Optimal regularity of stable solutions to nonlinear equations involving the p -Laplacian. Advances in Calculus of Variations, 2022, 15, 749-785.	1.2	3
54	Nondivergent elliptic equations on manifolds with nonnegative curvature. Communications on Pure and Applied Mathematics, 1997, 50, 623-665.	3.1	2

#	ARTICLE	IF	CITATIONS
55	A Conjecture of De Giorgi on Symmetry for Elliptic Equations in \mathbb{R}^n , 2001, , 259-265.		1
56	Antisymmetry of solutions for some weighted elliptic problems. Communications in Partial Differential Equations, 2018, 43, 506-547.	2.2	0
57	The optimal exponent in the embedding into the Lebesgue spaces for functions with gradient in the Morrey space. Advances in Mathematics, 2021, 380, 107592.	1.1	0
58	Universal Hardy-Sobolev inequalities on hypersurfaces of Euclidean space. Communications in Contemporary Mathematics, 0, , 2150063.	1.2	0
59	Preface of <i>Wavefest: A broad perspective on finite and infinite dimensional dynamical systems</i> . Discrete and Continuous Dynamical Systems, 2018, 38, ...-... ² .	0.9	0
60	A universal Hölder estimate up to dimension 4 for stable solutions to half-Laplacian semilinear equations. Journal of Differential Equations, 2022, 317, 153-195.	2.2	0