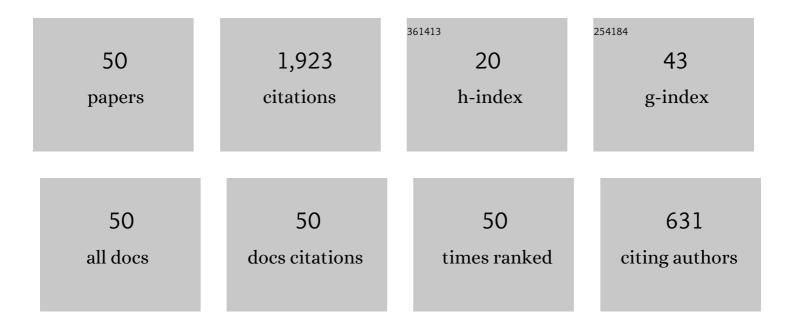
Xavier Ros-Oton

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7682032/publications.pdf Version: 2024-02-01



XAVIER ROS-OTON

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Non-symmetric stable operators: Regularity theory and integration by parts. Advances in Mathematics, 2022, 401, 108321. | 1.1 | 10 |
| 2 | Global Schauder theory for minimizers of the H(\hat{I} ©) energy. Journal of Functional Analysis, 2022, 283, 109523. | 1.4 | 1 |
| 3 | Free Boundary Regularity for Almost Every Solution to the Signorini Problem. Archive for Rational Mechanics and Analysis, 2021, 240, 419-466. | 2.4 | 5 |
| 4 | New boundary Harnack inequalities with right hand side. Journal of Differential Equations, 2021, 288, 204-249. | 2.2 | 8 |
| 5 | Characterizing compact coincidence sets in the thin obstacle problem and the obstacle problem for the fractional Laplacian. Nonlinear Analysis: Theory, Methods & Applications, 2021, 211, 112473. | 1.1 | 1 |
| 6 | Geometric Measure Theory and Free Boundary Problems. Lecture Notes in Mathematics, 2021, , . | 0.2 | 0 |
| 7 | Regularity of Free Boundaries in Obstacle Problems. Lecture Notes in Mathematics, 2021, , 37-88. | 0.2 | 0 |
| 8 | Obstacle problems for integro-differential operators: Higher regularity of free boundaries. Advances in Mathematics, 2020, 360, 106931. | 1.1 | 19 |
| 9 | Generic regularity of free boundaries for the obstacle problem. Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques, 2020, 132, 181-292. | 4.3 | 17 |
| 10 | The Dirichlet problem for nonlocal elliptic operators with \$C^{0,alpha }\$ exterior data. Proceedings of the American Mathematical Society, 2020, 148, 4455-4470. | 0.8 | 5 |
| 11 | Stable solutions to semilinear elliptic equations are smooth up to dimensionÂ\$9\$. Acta Mathematica, 2020, 224, 187-252. | 3.9 | 30 |
| 12 | The Boundary Harnack Principle for Nonlocal Elliptic Operators in Non-divergence Form. Potential Analysis, 2019, 51, 315-331. | 0.9 | 8 |
| 13 | Structure and regularity of the singular set in the obstacle problem for the fractional Laplacian. Revista Matematica Iberoamericana, 2019, 35, 1309-1365. | 0.9 | 12 |
| 14 | On global solutions to semilinear elliptic equations related to the one-phase free boundary problem. Discrete and Continuous Dynamical Systems, 2019, 39, 6945-6959. | 0.9 | 5 |
| 15 | Free Boundary Regularity in the Parabolic Fractional Obstacle Problem. Communications on Pure and Applied Mathematics, 2018, 71, 2129-2159. | 3.1 | 21 |
| 16 | Obstacle problems and free boundaries: an overview. SeMA Journal, 2018, 75, 399-419. | 2.0 | 16 |
| 17 | The obstacle problem for the fractional Laplacian with critical drift. Mathematische Annalen, 2018, 371, 1683-1735. | 1.4 | 13 |
| 18 | Global regularity for the free boundary in the obstacle problem for the fractional Laplacian. American Journal of Mathematics, 2018, 140, 415-447. | 1.1 | 19 |

XAVIER ROS-OTON

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Higher-order boundary regularity estimates for nonlocal parabolic equations. Calculus of Variations and Partial Differential Equations, 2018, 57, 1. | 1.7 | 4 |
| 20 | A one-dimensional symmetry result for a class of nonlocal semilinear equations in the plane. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2017, 34, 469-482. | 1.4 | 13 |
| 21 | Boundary regularity estimates for nonlocal elliptic equations in \$\$C^1\$\$ C 1 and \$\$C^{1,alpha }\$\$ C. Annali Di Matematica Pura Ed Applicata, 2017, 196, 1637-1668. | 1.0 | 27 |
| 22 | On the regularity of the free boundary in the p-Laplacian obstacle problem. Journal of Differential Equations, 2017, 263, 1931-1945. | 2.2 | 8 |
| 23 | Regularity theory for general stable operators: Parabolic equations. Journal of Functional Analysis, 2017, 272, 4165-4221. | 1.4 | 43 |
| 24 | The structure of the free boundary in the fully nonlinear thin obstacle problem. Advances in Mathematics, 2017, 316, 710-747. | 1.1 | 11 |
| 25 | Pohozaev identities for anisotropic integrodifferential operators. Communications in Partial Differential Equations, 2017, 42, 1290-1321. | 2.2 | 13 |
| 26 | Obstacle problems for integro-differential operators: regularity of solutions and free boundaries. Inventiones Mathematicae, 2017, 208, 1155-1211. | 2.5 | 46 |
| 27 | Infinite Speed of Propagation and Regularity of Solutions to the Fractional Porous Medium Equation in General Domains. Communications on Pure and Applied Mathematics, 2017, 70, 1472-1508. | 3.1 | 27 |
| 28 | Boundary Regularity, Pohozaev Identities and Nonexistence Results. , 2017, , 335-358. | | 5 |
| 29 | Nonlocal problems with Neumann boundary conditions. Revista Matematica Iberoamericana, 2017, 33, 377-416. | 0.9 | 138 |
| 30 | Sharp isoperimetric inequalities via the ABP method. Journal of the European Mathematical Society, 2016, 18, 2971-2998. | 1.4 | 37 |
| 31 | Regularity theory for general stable operators. Journal of Differential Equations, 2016, 260, 8675-8715. | 2.2 | 91 |
| 32 | Boundary regularity for fully nonlinear integro-differential equations. Duke Mathematical Journal, 2016, 165, . | 1.5 | 65 |
| 33 | The Dirichlet problem for nonlocal operators with singular kernels: Convex and nonconvex domains. Advances in Mathematics, 2016, 288, 732-790. | 1.1 | 20 |
| 34 | Boundary regularity for the fractional heat equation. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2016, 110, 49-64. | 1.2 | 28 |
| 35 | Nonlocal elliptic equations in bounded domains: a survey. Publicacions Matematiques, 2016, 60, 3-26. | 0.5 | 135 |
| 36 | Nonexistence Results for Nonlocal Equations with Critical and Supercritical Nonlinearities. Communications in Partial Differential Equations, 2015, 40, 115-133. | 2.2 | 33 |

XAVIER ROS-OTON

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Local integration by parts and Pohozaev identities for higher order fractional Laplacians. Discrete and Continuous Dynamical Systems, 2015, 35, 2131-2150. | 0.9 | 30 |
| 38 | The extremal solution for the fractional Laplacian. Calculus of Variations and Partial Differential Equations, 2014, 50, 723-750. | 1.7 | 75 |
| 39 | Regularity for the fractional Gelfand problem up to dimension 7. Journal of Mathematical Analysis and Applications, 2014, 419, 10-19. | 1.0 | 9 |
| 40 | The Dirichlet problem for the fractional Laplacian: Regularity up to the boundary. Journal Des Mathematiques Pures Et Appliquees, 2014, 101, 275-302. | 1.6 | 496 |
| 41 | The Pohozaev Identity for the Fractional Laplacian. Archive for Rational Mechanics and Analysis, 2014, 213, 587-628. | 2.4 | 196 |
| 42 | Sobolev and isoperimetric inequalities with monomial weights. Journal of Differential Equations, 2013, 255, 4312-4336. | 2.2 | 60 |
| 43 | 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 |
| 44 | Existence of periodic solutions with nonconstant sign in a class of generalized Abel equations. Discrete and Continuous Dynamical Systems, 2013, 33, 1603-1614. | 0.9 | 2 |
| 45 | Euclidean balls solve some isoperimetric problems with nonradial weights. Comptes Rendus Mathematique, 2012, 350, 945-947. | 0.3 | 18 |
| 46 | On a factorization of Riemann's ζ function with respect to a quadratic field and its computation. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2012, 106, 419-427. | 1.2 | 0 |
| 47 | Fractional Laplacian: Pohozaev identity and nonexistence results. Comptes Rendus Mathematique, 2012, 350, 505-508. | 0.3 | 29 |
| 48 | Stable inversion of Abel equations: Application to tracking control in DC–DC nonminimum phase boost converters. Automatica, 2011, 47, 221-226. | 5.0 | 31 |
| 49 | Periodic solutions with nonconstant sign in Abel equations of the second kind. Journal of Mathematical Analysis and Applications, 2011, 381, 582-589. | 1.0 | 4 |
| 50 | Approximate tracking of periodic references in a class of bilinear systems via stable inversion. Discrete and Continuous Dynamical Systems - Series B, 2011, 15, 197-215. | 0.9 | 2 |