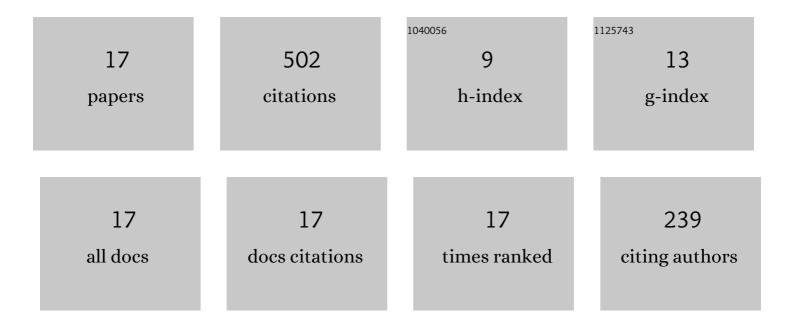
Juan Pablo Borthagaray

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/256008/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Local Energy Estimates for the Fractional Laplacian. SIAM Journal on Numerical Analysis, 2021, 59, 1918-1947. | 2.3 | 15 |
| 2 | Finite element algorithms for nonlocal minimal graphs. Mathematics in Engineering, 2021, 4, 1-29. | 0.9 | 3 |
| 3 | The Q-tensor model with uniaxial constraint. Handbook of Numerical Analysis, 2021, 22, 313-382. | 1.8 | 3 |
| 4 | A structure-preserving FEM for the uniaxially constrained \$\$mathbf{Q}\$\$-tensor model of nematic liquid crystals. Numerische Mathematik, 2020, 145, 837-881. | 1.9 | 14 |
| 5 | On the Convergence in \$H^1\$-Norm for the Fractional Laplacian. SIAM Journal on Numerical Analysis, 2019, 57, 1723-1743. | 2.3 | 13 |
| 6 | Finite Element Approximations for Fractional Evolution Problems. Fractional Calculus and Applied Analysis, 2019, 22, 767-794. | 2.2 | 18 |
| 7 | Weighted Sobolev regularity and rate of approximation of the obstacle problem for the integral fractional Laplacian. Mathematical Models and Methods in Applied Sciences, 2019, 29, 2679-2717. | 3.3 | 11 |
| 8 | Finite element discretizations of nonlocal minimal graphs: Convergence. Nonlinear Analysis: Theory, Methods & Applications, 2019, 189, 111566. | 1.1 | 10 |
| 9 | Regularity theory and high order numerical methods for the (1D)-fractional Laplacian. Mathematics of Computation, 2018, 87, 1821-1857. | 2.1 | 35 |
| 10 | Finite Element Approximation for the Fractional Eigenvalue Problem. Journal of Scientific Computing, 2018, 77, 308-329. | 2.3 | 18 |
| 11 | Numerical methods for fractional diffusion. Computing and Visualization in Science, 2018, 19, 19-46. | 1.2 | 104 |
| 12 | A Fractional Laplace Equation: Regularity of Solutions and Finite Element Approximations. SIAM Journal on Numerical Analysis, 2017, 55, 472-495. | 2.3 | 168 |
| 13 | A short FE implementation for a 2d homogeneous Dirichlet problem of a fractional Laplacian. Computers and Mathematics With Applications, 2017, 74, 784-816. | 2.7 | 83 |
| 14 | Nonlocal models for interface problems between dielectrics and metamaterials. , 2017, , . | | 1 |
| 15 | A mass transportation approach for Sobolev inequalities in variable exponent spaces. Manuscripta Mathematica, 2016, 151, 133-146. | 0.6 | 0 |
| 16 | Finite element approximations of the nonhomogeneous fractional Dirichlet problem. IMA Journal of Numerical Analysis, 0, , . | 2.9 | 6 |
| 17 | Finite element approximation of fractional Neumann problems. IMA Journal of Numerical Analysis, 0, , . | 2.9 | 0 |