

# Francisco de la Hoz

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

300  
citations

933410

10  
h-index

940516

16  
g-index

29  
all docs

29  
docs citations

29  
times ranked

141  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Vortex Filament Equation for a Regular Polygon in the Hyperbolic Plane. <i>Journal of Nonlinear Science</i> , 2022, 32, 9.  | 2.1 | 2         |
| 2  | A pseudospectral method for the one-dimensional fractional Laplacian on $\mathbb{R}$ . <i>Applied Mathematics and Computation</i> , 2021, 389, 125577.                      | 2.2 | 2         |
| 3  | Numerical approximation of the fractional Laplacian on $\mathbb{R}$ using orthogonal families. <i>Applied Numerical Mathematics</i> , 2020, 158, 164-193.                   | 2.1 | 1         |
| 4  | On the Evolution of the Vortex Filament Equation for Regular $M$ -Polygons with Nonzero Torsion. <i>SIAM Journal on Applied Mathematics</i> , 2020, 80, 1034-1056.          | 1.8 | 5         |
| 5  | On the Relationship Between the One-Corner Problem and the M-Corner Problem for the Vortex Filament Equation. <i>Journal of Nonlinear Science</i> , 2018, 28, 2275-2327.    | 2.1 | 11        |
| 6  | Numerical simulations of time-dependent partial differential equations. <i>Journal of Computational and Applied Mathematics</i> , 2016, 295, 175-184.                       | 2.0 | 4         |
| 7  | An analytical and numerical study of steady patches in the disc. <i>Analysis and PDE</i> , 2016, 9, 1609-1670.  | 1.4 | 22        |
| 8  | Doubly Connected $V$ -States for the Planar Euler Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2016, 48, 1892-1928.  | 1.9 | 38        |
| 9  | A pseudo-spectral method for a non-local KdV-Burgers equation posed on $\mathbb{R}$ . <i>Journal of Computational Physics</i> , 2016, 311, 45-61.                           | 3.8 | 6         |
| 10 | Doubly Connected $V$ -States for the Generalized Surface Quasi-Geostrophic Equations. <i>Archive for Rational Mechanics and Analysis</i> , 2016, 220, 1209-1281.            | 2.4 | 29        |
| 11 | The Vortex Filament Equation as a Pseudorandom Generator. <i>Acta Applicandae Mathematicae</i> , 2015, 138, 135-151.  | 1.0 | 2         |
| 12 | Persistence-time estimation for some stochastic SIS epidemic models. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2015, 20, 2933-2947.                     | 0.9 | 8         |
| 13 | The Evolution of the Local Induction Approximation for a Regular Polygon. <i>ESAIM Proceedings and Surveys</i> , 2014, 45, 447-455.   | 0.4 | 0         |
| 14 | Vortex filament equation for a regular polygon. <i>Nonlinearity</i> , 2014, 27, 3031-3057.  | 1.4 | 27        |
| 15 | The solution of two-dimensional advection-diffusion equations via operational matrices. <i>Applied Numerical Mathematics</i> , 2013, 72, 172-187.                           | 2.1 | 15        |
| 16 | A Sylvester-Based IMEX Method via Differentiation Matrices for Solving Nonlinear Parabolic Equations. <i>Communications in Computational Physics</i> , 2013, 14, 1001-1026. | 1.7 | 7         |
| 17 | A mean extinction-time estimate for a stochastic Lotka-Volterra predator-prey model. <i>Applied Mathematics and Computation</i> , 2012, 219, 170-179.                       | 2.2 | 11        |
| 18 | A matrix-based numerical method for the simulation of the two-dimensional sine-Gordon equation. <i>ESAIM: Proceedings and Surveys</i> , 2012, 35, 216-221.                  | 0.4 | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Numerical simulation of the N-dimensional sine-Gordon equation via operational matrices. Computer Physics Communications, 2012, 183, 864-879.         | 7.5 | 7         |
| 20 | Singularities in water waves and the Rayleigh-Taylor problem. Journal of Fluid Mechanics, 2010, 651, 211-239.   | 3.4 | 9         |
| 21 | An integrating factor for nonlinear Dirac equations. Computer Physics Communications, 2010, 181, 1195-1203.   | 7.5 | 11        |
| 22 | A numerical simulation for the blow-up of semi-linear diffusion equations. International Journal of Computer Mathematics, 2009, 86, 493-502.          | 1.8 | 3         |
| 23 | Numerical Study of a Flow of Regular Planar Curves That Develop Singularities at Finite Time. SIAM Journal on Applied Mathematics, 2009, 70, 279-301. | 1.8 | 3         |
| 24 | A Numerical Study of the Self-Similar Solutions of the Schrödinger Map. SIAM Journal on Applied Mathematics, 2009, 70, 1047-1077.                     | 1.8 | 16        |
| 25 | An exponential time differencing method for the nonlinear Schrödinger equation. Computer Physics Communications, 2008, 179, 449-456.                  | 7.5 | 29        |
| 26 | The Effect of Surface Tension on the Moore Singularity of Vortex Sheet Dynamics. Journal of Nonlinear Science, 2008, 18, 463-484.                     | 2.1 | 14        |
| 27 | The structure of singularities in nonlocal transport equations. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 185204.                 | 2.1 | 5         |
| 28 | Self-similar solutions for the 1-D Schrödinger map on the hyperbolic plane. Mathematische Zeitschrift, 2007, 257, 61-80.                              | 0.9 | 12        |
| 29 | Doubly Connected V-States for the Generalized Surface Quasi-geostrophic Equations. , 0, , 90-117.   |     | 0         |