Abner J Salgado

List of Publications by Year
in descending order

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51 papers	1,273 citations	430874 18 h-index	377865 34 g-index
51 all docs	51 docs citations	51 times ranked	645 citing authors

#	Article	IF	Citations
1	On the analysis and approximation of some models of fluids over weighted spaces on convex polyhedra. Numerische Mathematik, 2022, 151, 185.	1.9	4
2	The stationary Boussinesq problem under singular forcing. Mathematical Models and Methods in Applied Sciences, 2021, 31, 789-827.	3.3	3
3	Preconditioned Accelerated Gradient Descent Methods for Locally Lipschitz Smooth Objectives with Applications to the Solution of Nonlinear PDEs. Journal of Scientific Computing, 2021, 89, 1.	2.3	3
4	Estimation of the continuity constants for BogovskiÄ-and regularized PoincarÃ© integral operators. Journal of Mathematical Analysis and Applications, 2021, 502, 125246.	1.0	2
5	The Darcy problem with porosity depending exponentially on the pressure. Journal of Computational and Applied Mathematics, 2021, 398, 113642.	2.0	0
6	A weighted setting for the stationary Navier Stokes equations under singular forcing. Applied Mathematics Letters, 2020, 99, 105933.	2.7	6
7	A Posteriori Error Estimates for the Stationary Navier–Stokes Equations with Dirac Measures. SIAM Journal of Scientific Computing, 2020, 42, A1860-A1884.	2.8	6
8	The Mongeâ€“AmpÃ¨re equation. Handbook of Numerical Analysis, 2020, 21, 105-219.	1.8	3
9	Stability of the Stokes projection on weighted spaces and applications. Mathematics of Computation, 2020, 89, 1581-1603.	2.1	8
10	Finite element approximation of an obstacle problem for a class of integroâ€“differential operators. ESAIM: Mathematical Modelling and Numerical Analysis, 2020, 54, 229-253.	1.9	5
11	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
12	Finite element approximation of the Isaacs equation. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 351-374.	1.9	11
13	Maximumâ€“norm a posteriori error estimates for an optimal control problem. Computational Optimization and Applications, 2019, 73, 997-1017.	1.6	2
14	An a posteriori error analysis of an elliptic optimal control problem in measure space. Computers and Mathematics With Applications, 2019, 77, 2659-2675.	2.7	2
15	The Poisson and Stokes problems on weighted spaces in Lipschitz domains and under singular forcing. Journal of Mathematical Analysis and Applications, 2019, 471, 599-612.	1.0	12
16	Tensor FEM for Spectral Fractional Diffusion. Foundations of Computational Mathematics, 2019, 19, 901-962.	2.5	34
17	A posteriori error estimates for the Stokes problem with singular sources. Computer Methods in Applied Mechanics and Engineering, 2019, 345, 1007-1032.	6.6	16
18	Optimization with Respect to Order in a Fractional Diffusion Model: Analysis, Approximation and Algorithmic Aspects. Journal of Scientific Computing, 2018, 77, 204-224.	2.3	29

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19	Numerical methods for fractional diffusion. Computing and Visualization in Science, 2018, 19, 19-46.	1.2	104
20	Sparse Optimal Control for Fractional Diffusion. Computational Methods in Applied Mathematics, 2018, 18, 95-110.	0.8	11
21	Regularity of solutions to spaceâ€“time fractional wave equations: A PDE approach. Fractional Calculus and Applied Analysis, 2018, 21, 1262-1293.	2.2	20
22	Ana posteriorierror analysis for an optimal control problem with point sources. ESAIM: Mathematical Modelling and Numerical Analysis, 2018, 52, 1617-1650.	1.9	5
23	Some applications of weighted norm inequalities to the error analysis of PDE-constrained optimization problems. IMA Journal of Numerical Analysis, 2018, 38, 852-883.	2.9	9
24	Optimization of a Fractional Differential Equation. The IMA Volumes in Mathematics and Its Applications, 2018, , 291-316.	0.5	0
25	Preconditioned steepest descent methods for some nonlinear elliptic equations involving p-Laplacian terms. Journal of Computational Physics, 2017, 334, 45-67.	3.8	45
26	Adaptive finite element methods for an optimal control problem involving Dirac measures. Numerische Mathematik, 2017, 137, 159-197.	1.9	14
27	Numerical analysis of strongly nonlinear PDEs. Acta Numerica, 2017, 26, 137-303.	10.7	44
28	A PDE Approach to Space-Time Fractional Parabolic Problems. SIAM Journal on Numerical Analysis, 2016, 54, 848-873.	2.3	92
29	Finite Element Approximation of the Parabolic Fractional Obstacle Problem. SIAM Journal on Numerical Analysis, 2016, 54, 2619-2639.	2.3	11
30	A diffuse interface model for two-phase ferrofluid flows. Computer Methods in Applied Mechanics and Engineering, 2016, 309, 497-531.	6.6	54
31	The equations of ferrohydrodynamics: Modeling and numerical methods. Mathematical Models and Methods in Applied Sciences, 2016, 26, 2393-2449.	3.3	23
32	Stability analysis of pressure correction schemes for the Navierâ€“Stokes equations with traction boundary conditions. Computer Methods in Applied Mechanics and Engineering, 2016, 309, 307-324.	6.6	9
33	A Space-Time Fractional Optimal Control Problem: Analysis and Discretization. SIAM Journal on Control and Optimization, 2016, 54, 1295-1328.	2.1	54
34	Multilevel methods for nonuniformly elliptic operators and fractional diffusion. Mathematics of Computation, 2016, 85, 2583-2607.	2.1	33
35	Generalized Newtonian fluid flow through a porous medium. Journal of Mathematical Analysis and Applications, 2016, 433, 603-621.	1.0	9
36	Piecewise polynomial interpolation in Muckenhoupt weighted Sobolev spaces and applications. Numerische Mathematik, 2016, 132, 85-130.	1.9	41

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37	Convergence Analysis of Fractional Time-Stepping Techniques for Incompressible Fluids with Microstructure. Journal of Scientific Computing, 2015, 64, 216-233.	2.3	7
38	A total variation diminishing interpolation operator and applications. Mathematics of Computation, 2015, 84, 2569-2587.	2.1	17
39	A PDE approach to fractional diffusion: A posteriori error analysis. Journal of Computational Physics, 2015, 293, 339-358.	3.8	23
40	Convergence rates for the classical, thin and fractional elliptic obstacle problems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140449.	3.4	10
41	A PDE Approach to Fractional Diffusion in General Domains: A Priori Error Analysis. Foundations of Computational Mathematics, 2015, 15, 733-791.	2.5	173
42	The Micropolar Navierâ€“Stokes equations: A priori error analysis. Mathematical Models and Methods in Applied Sciences, 2014, 24, 1237-1264.	3.3	15
43	A DIFFUSE INTERFACE MODEL FOR ELECTROWETTING WITH MOVING CONTACT LINES. Mathematical Models and Methods in Applied Sciences, 2014, 24, 67-111.	3.3	36
44	Discrete Total Variation Flows without Regularization. SIAM Journal on Numerical Analysis, 2014, 52, 363-385.	2.3	26
45	A Note on the LadyÅ¾enskaja-BabuÅ¡ka-Brezzi Condition. Journal of Scientific Computing, 2013, 56, 219-229.	2.3	14
46	A diffuse interface fractional time-stepping technique for incompressible two-phase flows with moving contact lines. ESAIM: Mathematical Modelling and Numerical Analysis, 2013, 47, 743-769.	1.9	18
47	Convergence analysis of a class of massively parallel direction splitting algorithms for the Navier-Stokes equations in simple domains. Mathematics of Computation, 2012, 81, 1951-1977.	2.1	8
48	Error Analysis of a Fractional Time-Stepping Technique for Incompressible Flows with Variable Density. SIAM Journal on Numerical Analysis, 2011, 49, 917-944.	2.3	52
49	A note on the Stokes operator and its powers. Journal of Applied Mathematics and Computing, 2011, 36, 241-250.	2.5	6
50	A splitting method for incompressible flows with variable density based on a pressure Poisson equation. Journal of Computational Physics, 2009, 228, 2834-2846.	3.8	133
51	Approximation of elliptic equations with bmo coefficients. IMA Journal of Numerical Analysis, 0, , drv001.	2.9	0