Serena Dipierro

List of Publications by Year
in descending order

78 papers	1,289 citations	361296 20 h-index	414303 32 g-index
79 all docs	79 docs citations	79 times ranked	477 citing authors

#	Article	IF	Citations
1	Linear theory for a mixed operator withÂNeumann conditions. Asymptotic Analysis, 2022, 128, 571-594.	0.2	14
2	Mixed local and nonlocal elliptic operators: regularity and maximum principles. Communications in Partial Differential Equations, 2022, 47, 585-629.	1.0	52
3	Global Gradient Estimates for a General Type of Nonlinear Parabolic Equations. Journal of Geometric Analysis, 2022, 32, 1.	0.5	3
4	The Bernstein Technique for Integro-Differential Equations. Archive for Rational Mechanics and Analysis, 2022, 243, 1597-1652.	1.1	17
5	Radial symmetry of solutions to anisotropic and weighted diffusion equations with discontinuous nonlinearities. Calculus of Variations and Partial Differential Equations, 2022, 61, 1.	0.9	6
6	A Hong-Krahn-SzegÃ¶ inequality for mixed local and nonlocal operators. Mathematics in Engineering, 2022, 5, 1-25.	0.5	13
7	Non-symmetric stable operators: Regularity theory and integration by parts. Advances in Mathematics, 2022, 401, 108321.	0.5	10
8	The fractional Malmheden theorem. Mathematics in Engineering, 2022, 5, 1-28.	0.5	1
9	Semilinear elliptic equations involving mixed local and nonlocal operators. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2021, 151, 1611-1641.	0.8	47
10	Pointwise gradient bounds for entire solutions of elliptic equations with non-standard growth conditions and general nonlinearities. Journal of Differential Equations, 2021, 270, 435-475.	1.1	3
11	Global gradient estimates for nonlinear parabolic operators. ESAIM - Control, Optimisation and Calculus of Variations, 2021, 27, 21.	0.7	3
12	Heteroclinic connections and Dirichlet problems for a nonlocal functional of oscillation type. Annali Di Matematica Pura Ed Applicata, 2021, 200, 1999-2041.	0.5	0
13	A quantitative rigidity result for a two-dimensional Frenkelâ€“Kontorova model. Physica D: Nonlinear Phenomena, 2021, 419, 132871.	1.3	1
14	A Serrin-type problem with partial knowledge of the domain. Nonlinear Analysis: Theory, Methods & Applications, 2021, 208, 112330.	0.6	6
15	Description of an ecological niche for a mixed local/nonlocal dispersal: An evolution equation and a new Neumann condition arising from the superposition of Brownian and LÃ©vy processes. Physica A: Statistical Mechanics and Its Applications, 2021, 575, 126052.	1.2	29
16	Local density of Caputo-stationary functions of any order. Complex Variables and Elliptic Equations, 2020, 65, 1115-1138.	0.4	6
17	Rigidity Results for Elliptic Boundary Value Problems: Stable Solutions for Quasilinear Equations with Neumann or Robin Boundary Conditions. International Mathematics Research Notices, 2020, 2020, 1366-1384.	0.5	7
18	Improvement of Flatness for Nonlocal Phase Transitions. American Journal of Mathematics, 2020, 142, 1083-1160.	0.5	11

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19	Unique continuation principles in cones under nonzero Neumann boundary conditions. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2020, 37, 785-815.	0.7	4
20	Singularity Formation in Fractional Burgersâ€™ Equations. Journal of Nonlinear Science, 2020, 30, 1285-1305.	1.0	16
21	Nonlocal Minimal Graphs in the Plane are Generically Sticky. Communications in Mathematical Physics, 2020, 376, 2005-2063.	1.0	10
22	Boundary properties of fractional objects: Flexibility of linear equations and rigidity of minimal graphs. Journal Fur Die Reine Und Angewandte Mathematik, 2020, 2020, 121-164.	0.4	9
23	Minimisers of a fractional seminorm and nonlocal minimal surfaces. Interfaces and Free Boundaries, 2020, 22, 465-464.	0.2	4
24	On the mean value property of fractional harmonic functions. Nonlinear Analysis: Theory, Methods & Applications, 2020, 201, 112112.	0.6	5
25	Rigidity results in diffusion Markov triples. Journal of Functional Analysis, 2019, 276, 785-814.	0.7	1
26	Local Approximation of Arbitrary Functions by Solutions of Nonlocal Equations. Journal of Geometric Analysis, 2019, 29, 1428-1455.	0.5	24
27	On a Minkowski geometric flow in the plane: Evolution of curves with lack of scale invariance. Journal of the London Mathematical Society, 2019, 99, 31-51.	0.5	2
28	Definition of fractional Laplacian for functions with polynomial growth. Revista Matematica Iberoamericana, 2019, 35, 1079-1122.	0.4	15
29	Limit Behaviour of a Singular Perturbation Problem for the Biharmonic Operator. Applied Mathematics and Optimization, 2019, 80, 679-713.	0.8	4
30	Decay estimates for evolutionary equations with fractional time-diffusion. Journal of Evolution Equations, 2019, 19, 435-462.	0.6	29
31	Heteroclinic connections for nonlocal equations. Mathematical Models and Methods in Applied Sciences, 2019, 29, 2585-2636.	1.7	6
32	Wellposedness of a nonlinear peridynamic model. Nonlinearity, 2019, 32, 1-21.	0.6	22
33	On stationary fractional mean field games. Journal Des Mathematiques Pures Et Appliquees, 2019, 122, 1-22.	0.8	13
34	Fattening and nonfattening phenomena for planar nonlocal curvature flows. Mathematische Annalen, 2019, 375, 687-736.	0.7	10
35	A three-dimensional symmetry result for a phase transition equation in the genuinely nonlocal regime. Calculus of Variations and Partial Differential Equations, 2018, 57, 1.	0.9	17
36	Stratification of free boundary points for a two-phase variational problem. Advances in Mathematics, 2018, 328, 40-81.	0.5	12

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37	A Simple Mathematical Model Inspired by the Purkinje Cells: From Delayed Travelling Waves to Fractional Diffusion. Bulletin of Mathematical Biology, 2018, 80, 1849-1870.	0.9	16
38	A new discrete monotonicity formula with application to a two-phase free boundary problem in dimension two. Communications in Partial Differential Equations, 2018, 43, 1073-1101.	1.0	3
39	ON STABLE SOLUTIONS OF BOUNDARY REACTION-DIFFUSION EQUATIONS AND APPLICATIONS TO NONLOCAL PROBLEMS WITH NEUMANN DATA. Indiana University Mathematics Journal, 2018, 67, 429-469.	0.4	6
40	Density Estimates for Degenerate Double-Well Potentials. SIAM Journal on Mathematical Analysis, 2018, 50, 6333-6347.	0.9	5
41	Minimizers for nonlocal perimeters of Minkowski type. Calculus of Variations and Partial Differential Equations, 2018, 57, 1.	0.9	4
42	THE PHILLIP ISLAND PENGUIN PARADE (AÂMATHEMATICAL TREATMENT). ANZIAM Journal, 2018, 60, 27-54.	0.3	0
43	Classification of stable solutions for boundary value problems with nonlinear boundary conditions on Riemannian manifolds with nonnegative Ricci curvature. Advances in Nonlinear Analysis, 2018, 8, 1035-1042.	1.3	7
44	(Non)local and (non)linear free boundary problems. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 465-476.	0.6	1
45	Boundary behavior of nonlocal minimal surfaces. Journal of Functional Analysis, 2017, 272, 1791-1851.	0.7	32
46	Rigidity of critical points for a nonlocal Ohtaâ€“Kawasaki energy. Nonlinearity, 2017, 30, 1523-1535.	0.6	2
47	New Trends in Free Boundary Problems. Advanced Nonlinear Studies, 2017, 17, 319-332.	0.7	4
48	Asymptotic Expansions of the Contact Angle in Nonlocal Capillarity Problems. Journal of Nonlinear Science, 2017, 27, 1531-1550.	1.0	4
49	Planelike Interfaces in Long-Range Ising Models and Connections with Nonlocal Minimal Surfaces. Journal of Statistical Physics, 2017, 167, 1401-1451.	0.5	8
50	A nonlinear free boundary problem with a self-driven Bernoulli condition. Journal of Functional Analysis, 2017, 273, 3549-3615.	0.7	3
51	A class of unstable free boundary problems. Analysis and PDE, 2017, 10, 1317-1359.	0.6	3
52	On fractional elliptic equations in Lipschitz sets and epigraphs: regularity, monotonicity and rigidity results. Mathematische Annalen, 2017, 369, 1283-1326.	0.7	47
53	Continuity and density results for a one-phase nonlocal free boundary problem. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2017, 34, 1387-1428.	0.7	6
54	Nonlocal phase transitions in homogeneous and periodic media. Journal of Fixed Point Theory and Applications, 2017, 19, 387-405.	0.6	8

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55	Bifurcation results for a fractional elliptic equation with critical exponent in $$mathbb {R}^n$$ R n. Manuscripta Mathematica, 2017, 153, 183-230.	0.3	37
56	Chaotic Orbits for Systems of Nonlocal Equations. Communications in Mathematical Physics, 2017, 349, 583-626.	1.0	12
57	Boggioâ€™s formula for fractional polyharmonic Dirichlet problems. Annali Di Matematica Pura Ed Applicata, 2017, 196, 1327-1344.	0.5	19
58	All functions are locally s-harmonic up to a small error. Journal of the European Mathematical Society, 2017, 19, 957-966.	0.7	50
59	Nonlocal problems with Neumann boundary conditions. Revista Matematica Iberoamericana, 2017, 33, 377-416.	0.4	138
60	A logistic equation with nonlocal interactions. Kinetic and Related Models, 2017, 10, 141-170.	0.5	25
61	Qualitative properties of positive solutions to nonlocal critical problems involving the Hardy-Leray potential. Calculus of Variations and Partial Differential Equations, 2016, 55, 1.	0.9	58
62	Graph properties for nonlocal minimal surfaces. Calculus of Variations and Partial Differential Equations, 2016, 55, 1.	0.9	19
63	Some monotonicity results for general systems of nonlinear elliptic PDEs. Journal of Differential Equations, 2016, 261, 2854-2880.	1.1	1
64	Nonlocal Delaunay surfaces. Nonlinear Analysis: Theory, Methods & Applications, 2016, 137, 357-380.	0.6	23
65	Concentration phenomena for the nonlocal SchrÃ¶dinger equation with Dirichlet datum. Analysis and PDE, 2015, 8, 1165-1235.	0.6	91
66	A density property for fractional weighted Sobolev spaces. Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni, 2015, 26, 397-422.	0.3	22
67	A Nonlocal Free Boundary Problem. SIAM Journal on Mathematical Analysis, 2015, 47, 4559-4605.	0.9	12
68	Symmetry results for stable and monotone solutions to fibered systems of PDEs. Communications in Contemporary Mathematics, 2015, 17, 1450035.	0.6	5
69	Dislocation Dynamics in Crystals: A Macroscopic Theory in a Fractional Laplace Setting. Communications in Mathematical Physics, 2015, 333, 1061-1105.	1.0	54
70	On a fractional harmonic replacement. Discrete and Continuous Dynamical Systems, 2015, 35, 3377-3392.	0.5	5
71	Strongly Nonlocal Dislocation Dynamics in Crystals. Communications in Partial Differential Equations, 2014, 39, 2351-2387.	1.0	37
72	A geometric inequality and a symmetry result for elliptic systems involving the fractional Laplacian. Journal of Differential Equations, 2013, 255, 85-119.	1.1	27

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73	Concentration of solutions for a singularly perturbed mixed problem in non-smooth domains. Journal of Differential Equations, 2013, 254, 30-66.	1.1	3
74	Asymptotics of the s-perimeter as $ssearrow 0$. Discrete and Continuous Dynamical Systems, 2013, 33, 2777-2790.	0.5	40
75	Geometric inequalities and symmetry results for elliptic systems. Discrete and Continuous Dynamical Systems, 2013, 33, 3473-3496.	0.5	14
76	Concentration of solutions for a singularly perturbed Neumann problem in non-smooth domains. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2011, 28, 107-126.	0.7	3
77	(Dis)connectedness of nonlocal minimal surfaces in a cylinder and a stickiness property. Proceedings of the American Mathematical Society, 0, , .	0.4	2
78	Integral operators defined â€œup to a polynomialâ€• Fractional Calculus and Applied Analysis, 0, , 1.	1.2	0