Serena Dipierro

List of Publications by Year
in descending order

78	1,289	361296	414303
papers	**citations**	20	32
		h-index	**g-index**

79	79	79	477
all docs	**docs citations**	**times ranked**	**citing authors**

#	Article	IF	Citations
1	Nonlocal problems with Neumann boundary conditions. Revista Matematica Iberoamericana, 2017, 33, 377-416.	0.4	138
2	Concentration phenomena for the nonlocal Schrödinger equation with Dirichlet datum. Analysis and PDE, 2015, 8, 1165-1235.	0.6	91
3	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
4	Dislocation Dynamics in Crystals: A Macroscopic Theory in a Fractional Laplace Setting. Communications in Mathematical Physics, 2015, 333, 1061-1105.	1.0	54
5	Mixed local and nonlocal elliptic operators: regularity and maximum principles. Communications in Partial Differential Equations, 2022, 47, 585-629.	1.0	52
6	All functions are locally s-harmonic up to a small error. Journal of the European Mathematical Society, 2017, 19, 957-966.	0.7	50
7	On fractional elliptic equations in Lipschitz sets and epigraphs: regularity, monotonicity and rigidity results. Mathematische Annalen, 2017, 369, 1283-1326.	0.7	47
8	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
9	Asymptotics of the s-perimeter as $s \searrow 0$. Discrete and Continuous Dynamical Systems, 2013, 33, 2777-2790.	0.5	40
10	Strongly Nonlocal Dislocation Dynamics in Crystals. Communications in Partial Differential Equations, 2014, 39, 2351-2387.	1.0	37
11	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
12	Boundary behavior of nonlocal minimal surfaces. Journal of Functional Analysis, 2017, 272, 1791-1851.	0.7	32
13	Decay estimates for evolutionary equations with fractional time-diffusion. Journal of Evolution Equations, 2019, 19, 435-462.	0.6	29
14	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 Lévy processes. Physica A: Statistical Mechanics and Its Applications, 2021, 575, 126052.	1.2	29
15	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
16	A logistic equation with nonlocal interactions. Kinetic and Related Models, 2017, 10, 141-170.	0.5	25
17	Local Approximation of Arbitrary Functions by Solutions of Nonlocal Equations. Journal of Geometric Analysis, 2019, 29, 1428-1455.	0.5	24
18	Nonlocal Delaunay surfaces. Nonlinear Analysis: Theory, Methods & Applications, 2016, 137, 357-380.	0.6	23

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19	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
20	Wellposedness of a nonlinear peridynamic model. Nonlinearity, 2019, 32, 1-21.	0.6	22
21	Graph properties for nonlocal minimal surfaces. Calculus of Variations and Partial Differential Equations, 2016, 55, 1.	0.9	19
22	Boggioâ€™s formula for fractional polyharmonic Dirichlet problems. Annali Di Matematica Pura Ed Applicata, 2017, 196, 1327-1344.	0.5	19
23	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
24	The Bernstein Technique for Integro-Differential Equations. Archive for Rational Mechanics and Analysis, 2022, 243, 1597-1652.	1.1	17
25	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
26	Singularity Formation in Fractional Burgersâ€™ Equations. Journal of Nonlinear Science, 2020, 30, 1285-1305.	1.0	16
27	Definition of fractional Laplacian for functions with polynomial growth. Revista Matematica Iberoamericana, 2019, 35, 1079-1122.	0.4	15
28	Linear theory for a mixed operator withÂNeumann conditions. Asymptotic Analysis, 2022, 128, 571-594.	0.2	14
29	Geometric inequalities and symmetry results for elliptic systems. Discrete and Continuous Dynamical Systems, 2013, 33, 3473-3496.	0.5	14
30	On stationary fractional mean field games. Journal Des Mathematiques Pures Et Appliquees, 2019, 122, 1-22.	0.8	13
31	A Hong-Krahn-SzegÃ¶ inequality for mixed local and nonlocal operators. Mathematics in Engineering, 2022, 5, 1-25.	0.5	13
32	A Nonlocal Free Boundary Problem. SIAM Journal on Mathematical Analysis, 2015, 47, 4559-4605.	0.9	12
33	Chaotic Orbits for Systems of Nonlocal Equations. Communications in Mathematical Physics, 2017, 349, 583-626.	1.0	12
34	Stratification of free boundary points for a two-phase variational problem. Advances in Mathematics, 2018, 328, 40-81.	0.5	12
35	Improvement of Flatness for Nonlocal Phase Transitions. American Journal of Mathematics, 2020, 142, 1083-1160.	0.5	11
36	Fattening and nonfattening phenomena for planar nonlocal curvature flows. Mathematische Annalen, 2019, 375, 687-736.	0.7	10

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37	Nonlocal Minimal Graphs in the Plane are Generically Sticky. Communications in Mathematical Physics, 2020, 376, 2005-2063.	1.0	10
38	Non-symmetric stable operators: Regularity theory and integration by parts. Advances in Mathematics, 2022, 401, 108321.	0.5	10
39	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
40	Planelike Interfaces in Long-Range Ising Models and Connections with Nonlocal Minimal Surfaces. Journal of Statistical Physics, 2017, 167, 1401-1451.	0.5	8
41	Nonlocal phase transitions in homogeneous and periodic media. Journal of Fixed Point Theory and Applications, 2017, 19, 387-405.	0.6	8
42	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
43	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
44	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
45	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
46	Heteroclinic connections for nonlocal equations. Mathematical Models and Methods in Applied Sciences, 2019, 29, 2585-2636.	1.7	6
47	Local density of Caputo-stationary functions of any order. Complex Variables and Elliptic Equations, 2020, 65, 1115-1138.	0.4	6
48	A Serrin-type problem with partial knowledge of the domain. Nonlinear Analysis: Theory, Methods & Applications, 2021, 208, 112330.	0.6	6
49	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
50	Symmetry results for stable and monotone solutions to fibered systems of PDEs. Communications in Contemporary Mathematics, 2015, 17, 1450035.	0.6	5
51	On a fractional harmonic replacement. Discrete and Continuous Dynamical Systems, 2015, 35, 3377-3392.	0.5	5
52	Density Estimates for Degenerate Double-Well Potentials. SIAM Journal on Mathematical Analysis, 2018, 50, 6333-6347.	0.9	5
53	On the mean value property of fractional harmonic functions. Nonlinear Analysis: Theory, Methods & Applications, 2020, 201, 112112.	0.6	5
54	New Trends in Free Boundary Problems. Advanced Nonlinear Studies, 2017, 17, 319-332.	0.7	4

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55	Asymptotic Expansions of the Contact Angle in Nonlocal Capillarity Problems. Journal of Nonlinear Science, 2017, 27, 1531-1550.	1.0	4
56	Minimizers for nonlocal perimeters of Minkowski type. Calculus of Variations and Partial Differential Equations, 2018, 57, 1.	0.9	4
57	Limit Behaviour of a Singular Perturbation Problem for the Biharmonic Operator. Applied Mathematics and Optimization, 2019, 80, 679-713.	0.8	4
58	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
59	Minimisers of a fractional seminorm and nonlocal minimal surfaces. Interfaces and Free Boundaries, 2020, 22, 465-464.	0.2	4
60	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
61	Concentration of solutions for a singularly perturbed mixed problem in non-smooth domains. Journal of Differential Equations, 2013, 254, 30-66.	1.1	3
62	A nonlinear free boundary problem with a self-driven Bernoulli condition. Journal of Functional Analysis, 2017, 273, 3549-3615.	0.7	3
63	A class of unstable free boundary problems. Analysis and PDE, 2017, 10, 1317-1359.	0.6	3
64	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
65	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
66	Global gradient estimates for nonlinear parabolic operators. ESAIM - Control, Optimisation and Calculus of Variations, 2021, 27, 21.	0.7	3
67	Global Gradient Estimates for a General Type of Nonlinear Parabolic Equations. Journal of Geometric Analysis, 2022, 32, 1.	0.5	3
68	Rigidity of critical points for a nonlocal Ohta–Kawasaki energy. Nonlinearity, 2017, 30, 1523-1535.	0.6	2
69	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
70	(Dis)connectedness of nonlocal minimal surfaces in a cylinder and a stickiness property. Proceedings of the American Mathematical Society, 0, , .	0.4	2
71	Some monotonicity results for general systems of nonlinear elliptic PDEs. Journal of Differential Equations, 2016, 261, 2854-2880.	1.1	1
72	Rigidity results in diffusion Markov triples. Journal of Functional Analysis, 2019, 276, 785-814.	0.7	1

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73	A quantitative rigidity result for a two-dimensional Frenkel–Kontorova model. Physica D: Nonlinear Phenomena, 2021, 419, 132871.	1.3	1
74	(Non)local and (non)linear free boundary problems. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 465-476.	0.6	1
75	The fractional Malmheden theorem. Mathematics in Engineering, 2022, 5, 1-28.	0.5	1
76	THE PHILLIP ISLAND PENGUIN PARADE (AÂMATHEMATICAL TREATMENT). ANZIAM Journal, 2018, 60, 27-54.	0.3	0
77	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
78	Integral operators defined â€œup to a polynomialâ€. Fractional Calculus and Applied Analysis, 0, , 1.	1.2	0