

Maria Colombo

List of Publications by Year in descending order

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47
papers

2,081
citations

516561

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47
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47
docs citations

47
times ranked

420
citing authors

#	ARTICLE	IF	CITATIONS
1	Typicality results for weak solutions of the incompressible Navier–Stokes equations. <i>ESAIM - Control, Optimisation and Calculus of Variations</i> , 2022, 28, 38.	0.7	5
2	On the Well-Posedness of Branched Transportation. <i>Communications on Pure and Applied Mathematics</i> , 2021, 74, 833-864.	1.2	6
3	Global regularity for the hyperdissipative Navier-Stokes equation below the critical order. <i>Journal of Differential Equations</i> , 2021, 275, 815-836.	1.1	4
4	Bounds on optimal transport maps onto log-concave measures. <i>Journal of Differential Equations</i> , 2021, 271, 1007-1022.	1.1	4
5	Estimate on the Dimension of the Singular Set of the Supercritical Surface Quasigeostrophic Equation. <i>Annals of PDE</i> , 2021, 7, 6.	0.8	1
6	Positive Solutions of Transport Equations and Classical Nonuniqueness of Characteristic curves. <i>Archive for Rational Mechanics and Analysis</i> , 2021, 240, 1055-1090.	1.1	16
7	Local limit of nonlocal traffic models: Convergence results and total variation blow-up. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2021, 38, 1653-1666.	0.7	15
8	Stability of optimal traffic plans in the irrigation problem. <i>Discrete and Continuous Dynamical Systems</i> , 2021, .	0.5	2
9	The Generalized Caffarelli–Kohn–Nirenberg Theorem for the Hyperdissipative Navier–Stokes System. <i>Communications on Pure and Applied Mathematics</i> , 2020, 73, 609-663.	1.2	19
10	Direct Epiperimetric Inequalities for the Thin Obstacle Problem and Applications. <i>Communications on Pure and Applied Mathematics</i> , 2020, 73, 384-420.	1.2	17
11	Regularity in Time of Hölder Solutions of Euler and Hypodissipative Navier–Stokes Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2020, 52, 221-238.	0.9	14
12	Regularity results for rough solutions of the incompressible Euler equations via interpolation methods. <i>Nonlinearity</i> , 2020, 33, 4818-4836.	0.6	9
13	Stability for the mailing problem. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2019, 128, 152-182.	0.8	5
14	Continuity of Multimarginal Optimal Transport with Repulsive Cost. <i>SIAM Journal on Mathematical Analysis</i> , 2019, 51, 2903-2926.	0.9	5
15	On the Singular Local Limit for Conservation Laws with Nonlocal Fluxes. <i>Archive for Rational Mechanics and Analysis</i> , 2019, 233, 1131-1167.	1.1	30
16	Improved stability of optimal traffic paths. <i>Calculus of Variations and Partial Differential Equations</i> , 2018, 57, 1.	0.9	9
17	Regularity for general functionals with double phase. <i>Calculus of Variations and Partial Differential Equations</i> , 2018, 57, 1.	0.9	290
18	Ill-Posedness of Leray Solutions for the Hypodissipative Navier–Stokes Equations. <i>Communications in Mathematical Physics</i> , 2018, 362, 659-688.	1.0	41

#	ARTICLE	IF	CITATIONS
19	A logarithmic epiperimetric inequality for the obstacle problem. Geometric and Functional Analysis, 2018, 28, 1029-1061.	0.6	19
20	Flows of Non-smooth Vector Fields and Degenerate Elliptic Equations. , 2017, , .		3
21	On the Lagrangian structure of transport equations: The Vlasov-Poisson system. Duke Mathematical Journal, 2017, 166, .	0.8	9
22	On the lower semicontinuous envelope of functionals defined on polyhedral chains. Nonlinear Analysis: Theory, Methods & Applications, 2017, 163, 201-215.	0.6	17
23	Optimality of integrability estimates for advection-diffusion equations. Nonlinear Differential Equations and Applications, 2017, 24, 1.	0.4	11
24	Existence and almost everywhere regularity of isoperimetric clusters for fractional perimeters. Nonlinear Analysis: Theory, Methods & Applications, 2017, 153, 243-274.	0.6	5
25	Essential connectedness and the rigidity problem for Gaussian symmetrization. Journal of the European Mathematical Society, 2017, 19, 395-439.	0.7	6
26	Counterexamples in multimarginal optimal transport with Coulomb cost and spherically symmetric data. Mathematical Models and Methods in Applied Sciences, 2016, 26, 1025-1049.	1.7	11
27	Non-autonomous functionals, borderline cases and related function classes. St Petersburg Mathematical Journal, 2016, 27, 347-379.	0.1	180
28	Minimizing movements along a sequence of functionals and curves of maximal slope. Comptes Rendus Mathematique, 2016, 354, 685-689.	0.1	8
29	Calderón-Zygmund estimates and non-uniformly elliptic operators. Journal of Functional Analysis, 2016, 270, 1416-1478.	0.7	168
30	Logarithmic estimates for continuity equations. Networks and Heterogeneous Media, 2016, 11, 301-311.	0.5	4
31	Multimarginal Optimal Transport Maps for One-dimensional Repulsive Costs. Canadian Journal of Mathematics, 2015, 67, 350-368.	0.3	62
32	Harnack inequalities for double phase functionals. Nonlinear Analysis: Theory, Methods & Applications, 2015, 121, 206-222.	0.6	232
33	Regularity for Double Phase Variational Problems. Archive for Rational Mechanics and Analysis, 2015, 215, 443-496.	1.1	363
34	Renormalized solutions to the continuity equation with an integrable damping term. Calculus of Variations and Partial Differential Equations, 2015, 54, 1831-1845.	0.9	15
35	Bounded Minimisers of Double Phase Variational Integrals. Archive for Rational Mechanics and Analysis, 2015, 218, 219-273.	1.1	317
36	Existence and Uniqueness of Maximal Regular Flows for Non-smooth Vector Fields. Archive for Rational Mechanics and Analysis, 2015, 218, 1043-1081.	1.1	22

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37	Equality between Monge and Kantorovich multimarginal problems with Coulomb cost. <i>Annali Di Matematica Pura Ed Applicata</i> , 2015, 194, 307-320.	0.5	21
38	Regularity results for very degenerate elliptic equations. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2014, 101, 94-117.	0.8	28
39	An excess-decay result for a class of degenerate elliptic equations. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2014, 7, 631-652.	0.6	2
40	Rigidity of equality cases in Steiner's perimeter inequality. <i>Analysis and PDE</i> , 2014, 7, 1535-1593.	0.6	7
41	A global existence result for the semigeostrophic equations in three dimensional convex domains. <i>Discrete and Continuous Dynamical Systems</i> , 2014, 34, 1251-1268.	0.5	22
42	Obstructions to regularity in the classical Monge problem. <i>Mathematical Research Letters</i> , 2014, 21, 697-712.	0.2	2
43	PASSING TO THE LIMIT IN MAXIMAL SLOPE CURVES: FROM A REGULARIZED PERONA-MALIK EQUATION TO THE TOTAL VARIATION FLOW. <i>Mathematical Models and Methods in Applied Sciences</i> , 2012, 22, .	1.7	10
44	Existence of Eulerian Solutions to the Semigeostrophic Equations in Physical Space: The 2-Dimensional Periodic Case. <i>Communications in Partial Differential Equations</i> , 2012, 37, 2209-2227.	1.0	34
45	Multiple Object Tracking via Prediction and Filtering with a Sobolev-Type Metric on Curves. <i>Lecture Notes in Computer Science</i> , 2012, , 143-152.	1.0	0
46	Slow Time Behavior of the Semidiscrete Perona-Malik Scheme in One Dimension. <i>SIAM Journal on Mathematical Analysis</i> , 2011, 43, 2564-2600.	0.9	7
47	On the role of numerical viscosity in the study of the local limit of nonlocal conservation laws. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 0, , .	0.8	4