Andrea Mondino

List of Publications by Year
in descending order

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51	964	516710 16	477307 29
papers	citations	h-index	g-index

51	51	51	171
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Riemannian Ricci curvature lower bounds in metric measure spaces with ?-finite measure. Transactions of the American Mathematical Society, 2015, 367, 4661-4701.	0.9	125
2	Sharp and rigid isoperimetric inequalities in metric-measure spaces with lower Ricci curvature bounds. Inventiones Mathematicae, 2017, 208, 803-849.	2.5	80
3	Structure theory of metric measure spaces with lower Ricci curvature bounds. Journal of the European Mathematical Society, 2019, 21, 1809-1854.	1.4	69
4	On the Bakryâ€“Ã‰mery Condition, the Gradient Estimates and the Local-to-Global Property of $$mathsf{RCD}^*(K,N)$$ RCD âˆ— (K , N) Metric Measure Spaces. Journal of Geometric Analysis, 2016, 26, 24-56.	1.0	52
5	Sharp geometric and functional inequalities in metric measure spaces with lower Ricci curvature bounds. Geometry and Topology, 2017, 21, 603-645.	1.3	49
6	Convergence of pointed non-compact metric measure spaces and stability of Ricci curvature bounds and heat flows. Proceedings of the London Mathematical Society, 2015, 111, pdv047.	1.3	47
7	Optimal maps in essentially non-branching spaces. Communications in Contemporary Mathematics, 2017, 19, 1750007.	1.2	36
8	Liâ€“Yau and Harnack type inequalities in metric measure spaces. Nonlinear Analysis: Theory, Methods & Applications, 2014, 95, 721-734.	1.1	32
9	Nonlinear Diffusion Equations and Curvature Conditions in Metric Measure Spaces. Memoirs of the American Mathematical Society, 2019, 262, 0-0.	0.9	32
10	Euclidean spaces as weak tangents of infinitesimally Hilbertian metric measure spaces with Ricci curvature bounded below. Journal Fur Die Reine Und Angewandte Mathematik, 2015, 2015, 233-244.	0.9	28
11	Willmore spheres in compact Riemannian manifolds. Advances in Mathematics, 2013, 232, 608-676.	1.1	26
12	New formulas for the Laplacian of distance functions and applications. Analysis and PDE, 2020, 13, 2091-2147.	1.4	26
13	Some results about the existence of critical points for the Willmore functional. Mathematische Zeitschrift, 2010, 266, 583-622.	0.9	22
14	Embedded Surfaces of Arbitrary Genus Minimizing the Willmore Energy Under Isoperimetric Constraint. Archive for Rational Mechanics and Analysis, 2014, 212, 645-682.	2.4	21
15	On the topology and the boundary of Nâ€“dimensional RCD(K,N) spaces. Geometry and Topology, 2021, 25, 445-495.	1.3	21
16	A PDE approach to nonlinear potential theory in metric measure spaces. Journal Des Mathematiques Pures Et Appliquees, 2013, 100, 505-534.	1.6	20
17	Existence of isoperimetric regions in non-compact Riemannian manifolds under Ricci or scalar curvature conditions. Communications in Analysis and Geometry, 2016, 24, 115-138.	0.4	18
18	On quotients of spaces with Ricci curvature bounded below. Journal of Functional Analysis, 2018, 275, 1368-1446.	1.4	16

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19	On the universal cover and the fundamental group of an RCD[*](K,N)-space. Journal Fur Die Reine Und Angewandte Mathematik, 2019, 2019, 211-237.	0.9	16
20	The Conformal Willmore Functional: A Perturbative Approach. Journal of Geometric Analysis, 2013, 23, 764-811.	1.0	15
21	Cheeger bounds on spin-two fields. Journal of High Energy Physics, 2021, 2021, 1.	4.7	15
22	Polya-Szego inequality and Dirichlet p-spectral gap for non-smooth spaces with Ricci curvature bounded below. Journal Des Mathematiques Pures Et Appliquees, 2020, 137, 238-274.	1.6	13
23	Immersed spheres of finite total curvature into manifolds. Advances in Calculus of Variations, 2014, 7, .	1.2	12
24	Existence of immersed spheres minimizing curvature functionals in compact 3-manifolds. Mathematische Annalen, 2014, 359, 379-425.	1.4	12
25	Sectional and intermediate Ricci curvature lower bounds via optimal transport. Advances in Mathematics, 2018, 329, 781-818.	1.1	12
26	Existence and Regularity of Spheres Minimising the Canhamâ€“Helfrich Energy. Archive for Rational Mechanics and Analysis, 2020, 236, 1455-1485.	2.4	12
27	A gap theorem for Willmore tori and an application to the Willmore flow. Nonlinear Analysis: Theory, Methods & Applications, 2014, 102, 220-225.	1.1	11
28	Almost Euclidean Isoperimetric Inequalities in Spaces Satisfying Local Ricci Curvature Lower Bounds. International Mathematics Research Notices, 2020, 2020, 1481-1510.	1.0	11
29	Measure rigidity of Ricci curvature lower bounds. Advances in Mathematics, 2016, 286, 430-480.	1.1	10
30	On an isoperimetric-isodiametric inequality. Analysis and PDE, 2017, 10, 95-126.	1.4	9
31	Existence of integral $$m$$ -varifolds minimizing $$int !|A|^p$$ and $$int !|H|^p,,p>m,$$ in Riemannian manifolds. Calculus of Variations and Partial Differential Equations, 2014, 49, 431-470.	1.7	8
32	Gaussian-type isoperimetric inequalities in RCD $(K, infty)$ probability spaces for positive K. Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni, 2016, 27, 497-514.	0.6	8
33	Sharp Cheegerâ€“Buser Type Inequalities in $$ mathsf {RCD}(K,infty)$$ Spaces. Journal of Geometric Analysis, 2021, 31, 2416-2438.	1.0	8
34	Existence of immersed spheres minimizing curvature functionals in non-compact 3-manifolds. Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire, 2014, 31, 707-724.	1.4	7
35	Isoperimetric inequalities for finite perimeter sets under lower Ricci curvature bounds. Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni, 2018, 29, 413-430.	0.6	7
36	Quantitative Isoperimetry Ã la Levyâ€Gromov. Communications on Pure and Applied Mathematics, 2019, 72, 1631-1677.	3.1	7

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37	Concentration of small Willmore spheres in Riemannian 3-manifolds. Analysis and PDE, 2014, 7, 1901-1921.	1.4	6
38	Global Conformal Invariants of Submanifolds. Annales De L'Institut Fourier, 2018, 68, 2663-2695.	0.6	6
39	Existence of Generalized Totally Umbilic 2-Spheres in Perturbed 3-Spheres. International Mathematics Research Notices, 2014, 2014, 6020-6052.	1.0	5
40	A new notion of angle between three points in a metric space. Journal Fur Die Reine Und Angewandte Mathematik, 2015, 2015, .	0.9	5
41	A strict inequality for the minimization of the Willmore functional under isoperimetric constraint. Advances in Calculus of Variations, 2023, 16, 529-540.	1.2	5
42	The equality case in Cheeger's and Buser's inequalities on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mi mathvariant="sans-serif">RCD</mml:mi></mml:math> spaces. Journal of Functional Analysis, 2021, 281, 109022.	1.4	5
43	Embedded area-constrained Willmore tori of small area in Riemannian three-manifolds I: minimization. Proceedings of the London Mathematical Society, 2017, 115, 502-544.	1.3	4
44	Foliation by Area-constrained Willmore Spheres Near a Nondegenerate Critical Point of the Scalar Curvature. International Mathematics Research Notices, 2020, 2020, 6539-6568.	1.0	4
45	A Talenti-type comparison theorem for $${{,mathrm{RCD},}}(K,N)$$ spaces and applications. Calculus of Variations and Partial Differential Equations, 2021, 60, 1.	1.7	4
46	A frame energy for immersed tori and applications to regular homotopy classes. Journal of Differential Geometry, 2016, 104, .	1.1	2
47	Embedded area-constrained Willmore tori of small area in Riemannian three-manifolds, II: Morse Theory. American Journal of Mathematics, 2017, 139, 1315-1378.	1.1	2
48	Angles between Curves in Metric Measure Spaces. Analysis and Geometry in Metric Spaces, 2017, 5, 47-68.	0.5	2
49	A nonâ€existence result for minimal catenoids in asymptotically flat spaces. Journal of the London Mathematical Society, 2017, 95, 373-392.	1.0	1
50	Rigidity for critical points in the LÃ©vy-Gromov inequality. Mathematische Zeitschrift, 2018, 289, 1191-1197.	0.9	0
51	Some rigidity results for the hawking mass and a lower bound for the Bartnik capacity. Journal of the London Mathematical Society, 0, , .	1.0	0