

Andrea Mondino

List of Publications by Year in descending order

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papers

964
citations

516710

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51
all docs

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docs citations

51
times ranked

171
citing authors

#	ARTICLE	IF	CITATIONS
1	A strict inequality for the minimization of the Willmore functional under isoperimetric constraint. <i>Advances in Calculus of Variations</i> , 2023, 16, 529-540.	1.2	5
2	Sharp Cheeger-Buser Type Inequalities in $\text{RCD}(K, \infty)$ Spaces. <i>Journal of Geometric Analysis</i> , 2021, 31, 2416-2438.	1.0	8
3	On the topology and the boundary of n -dimensional $\text{RCD}(K, N)$ spaces. <i>Geometry and Topology</i> , 2021, 25, 445-495.	1.3	21
4	A Talenti-type comparison theorem for $\text{RCD}(K, N)$ spaces and applications. <i>Calculus of Variations and Partial Differential Equations</i> , 2021, 60, 1.	1.7	4
5	The equality case in Cheeger's and Buser's inequalities on RCD spaces. <i>Journal of Functional Analysis</i> , 2021, 281, 109022.	1.4	5
6	Cheeger bounds on spin-two fields. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	15
7	Almost Euclidean Isoperimetric Inequalities in Spaces Satisfying Local Ricci Curvature Lower Bounds. <i>International Mathematics Research Notices</i> , 2020, 2020, 1481-1510.	1.0	11
8	Foliation by Area-constrained Willmore Spheres Near a Nondegenerate Critical Point of the Scalar Curvature. <i>International Mathematics Research Notices</i> , 2020, 2020, 6539-6568.	1.0	4
9	Polya-Szego inequality and Dirichlet p -spectral gap for non-smooth spaces with Ricci curvature bounded below. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2020, 137, 238-274.	1.6	13
10	Existence and Regularity of Spheres Minimising the Canham-Helfrich Energy. <i>Archive for Rational Mechanics and Analysis</i> , 2020, 236, 1455-1485.	2.4	12
11	New formulas for the Laplacian of distance functions and applications. <i>Analysis and PDE</i> , 2020, 13, 2091-2147.	1.4	26
12	On the universal cover and the fundamental group of an $\text{RCD}(\sup K, \sup N)$ -space. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2019, 2019, 211-237.	0.9	16
13	Structure theory of metric measure spaces with lower Ricci curvature bounds. <i>Journal of the European Mathematical Society</i> , 2019, 21, 1809-1854.	1.4	69
14	Quantitative Isoperimetry À la Levy-Gromov. <i>Communications on Pure and Applied Mathematics</i> , 2019, 72, 1631-1677.	3.1	7
15	Nonlinear Diffusion Equations and Curvature Conditions in Metric Measure Spaces. <i>Memoirs of the American Mathematical Society</i> , 2019, 262, 0-0.	0.9	32
16	Sectional and intermediate Ricci curvature lower bounds via optimal transport. <i>Advances in Mathematics</i> , 2018, 329, 781-818.	1.1	12
17	On quotients of spaces with Ricci curvature bounded below. <i>Journal of Functional Analysis</i> , 2018, 275, 1368-1446.	1.4	16
18	Rigidity for critical points in the L^p -Gromov inequality. <i>Mathematische Zeitschrift</i> , 2018, 289, 1191-1197.	0.9	0

#	ARTICLE	IF	CITATIONS
19	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
20	Global Conformal Invariants of Submanifolds. Annales De L'Institut Fourier, 2018, 68, 2663-2695.	0.6	6
21	On an isoperimetric-isodiametric inequality. Analysis and PDE, 2017, 10, 95-126.	1.4	9
22	Sharp geometric and functional inequalities in metric measure spaces with lower Ricci curvature bounds. Geometry and Topology, 2017, 21, 603-645.	1.3	49
23	A non-existence result for minimal catenoids in asymptotically flat spaces. Journal of the London Mathematical Society, 2017, 95, 373-392.	1.0	1
24	Optimal maps in essentially non-branching spaces. Communications in Contemporary Mathematics, 2017, 19, 1750007.	1.2	36
25	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
26	Sharp and rigid isoperimetric inequalities in metric-measure spaces with lower Ricci curvature bounds. Inventiones Mathematicae, 2017, 208, 803-849.	2.5	80
27	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
28	Angles between Curves in Metric Measure Spaces. Analysis and Geometry in Metric Spaces, 2017, 5, 47-68.	0.5	2
29	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
30	A frame energy for immersed tori and applications to regular homotopy classes. Journal of Differential Geometry, 2016, 104, .	1.1	2
31	On the Bakry-Ollery Condition, the Gradient Estimates and the Local-to-Global Property of $RCD^*(K, N)$ Metric Measure Spaces. Journal of Geometric Analysis, 2016, 26, 24-56.	1.0	52
32	Measure rigidity of Ricci curvature lower bounds. Advances in Mathematics, 2016, 286, 430-480.	1.1	10
33	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
34	A new notion of angle between three points in a metric space. Journal Fur Die Reine Und Angewandte Mathematik, 2015, 2015, .	0.9	5
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Existence of Generalized Totally Umbilic 2-Spheres in Perturbed 3-Spheres. International Mathematics Research Notices, 2014, 2014, 6020-6052.	1.0	5
39	Immersed spheres of finite total curvature into manifolds. Advances in Calculus of Variations, 2014, 7, .	1.2	12
40	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
41	Existence of integral m -varifolds minimizing $\int A ^p$ and $\int H ^{p,m}$ in Riemannian manifolds. Calculus of Variations and Partial Differential Equations, 2014, 49, 431-470.	1.7	8
42	Existence of immersed spheres minimizing curvature functionals in compact 3-manifolds. Mathematische Annalen, 2014, 359, 379-425.	1.4	12
43	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
44	Liâ€Yau and Harnack type inequalities in metric measure spaces. Nonlinear Analysis: Theory, Methods & Applications, 2014, 95, 721-734.	1.1	32
45	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
46	Concentration of small Willmore spheres in Riemannian 3-manifolds. Analysis and PDE, 2014, 7, 1901-1921.	1.4	6
47	The Conformal Willmore Functional: A Perturbative Approach. Journal of Geometric Analysis, 2013, 23, 764-811.	1.0	15
48	A PDE approach to nonlinear potential theory in metric measure spaces. Journal Des Mathematiques Pures Et Appliquees, 2013, 100, 505-534.	1.6	20
49	Willmore spheres in compact Riemannian manifolds. Advances in Mathematics, 2013, 232, 608-676.	1.1	26
50	Some results about the existence of critical points for the Willmore functional. Mathematische Zeitschrift, 2010, 266, 583-622.	0.9	22
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