

Fabio Cavalletti

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

501
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840776

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27
times ranked

111
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharp and rigid isoperimetric inequalities in metric-measure spaces with lower Ricci curvature bounds. <i>Inventiones Mathematicae</i> , 2017, 208, 803-849.	2.5	80
2	The globalization theorem for the Curvature-Dimension condition. <i>Inventiones Mathematicae</i> , 2021, 226, 1-137.	2.5	51
3	Sharp geometric and functional inequalities in metric measure spaces with lower Ricci curvature bounds. <i>Geometry and Topology</i> , 2017, 21, 603-645.	1.3	49
4	Local curvature-dimension condition implies measure-contraction property. <i>Journal of Functional Analysis</i> , 2012, 262, 5110-5127.	1.4	42
5	The Monge Problem for Distance Cost in Geodesic Spaces. <i>Communications in Mathematical Physics</i> , 2013, 318, 615-673.	2.2	37
6	Optimal maps in essentially non-branching spaces. <i>Communications in Contemporary Mathematics</i> , 2017, 19, 1750007.	1.2	36
7	Monge problem in metric measure spaces with Riemannian curvature-dimension condition. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2014, 99, 136-151.	1.1	31
8	Decomposition of Geodesics in the Wasserstein Space and the Globalization Problem. <i>Geometric and Functional Analysis</i> , 2014, 24, 493-551.	1.8	26
9	New formulas for the Laplacian of distance functions and applications. <i>Analysis and PDE</i> , 2020, 13, 2091-2147.	1.4	26
10	A Simple Proof of Global Existence for the 1D Pressureless Gas Dynamics Equations. <i>SIAM Journal on Mathematical Analysis</i> , 2015, 47, 66-79.	1.9	23
11	Existence and uniqueness of optimal transport maps. <i>Annales De L'Institut Henri Poincare (C) Analyse Non Lineaire</i> , 2015, 32, 1367-1377.	1.4	19
12	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
13	Measure rigidity of Ricci curvature lower bounds. <i>Advances in Mathematics</i> , 2016, 286, 430-480.	1.1	10
14	The Monge problem in Wiener space. <i>Calculus of Variations and Partial Differential Equations</i> , 2012, 45, 101-124.	1.7	9
15	A variational time discretization for compressible Euler equations. <i>Transactions of the American Mathematical Society</i> , 2019, 371, 5083-5155.	0.9	9
16	An Overview of L^1 optimal transportation on metric measure spaces. , 2017, , 98-144.		7
17	Isoperimetric inequalities for finite perimeter sets under lower Ricci curvature bounds. <i>Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni</i> , 2018, 29, 413-430.	0.6	7
18	Isoperimetric inequality under Measure-Contraction property. <i>Journal of Functional Analysis</i> , 2019, 277, 2893-2917.	1.4	6

#	ARTICLE	IF	CITATIONS
19	Independence of synthetic curvature dimension conditions on transport distance exponent. Transactions of the American Mathematical Society, 2021, 374, 5877-5923.	0.9	5
20	Isoperimetric inequality in noncompact ??? spaces. Proceedings of the American Mathematical Society, 2022, 150, 3537-3548.	0.8	5
21	Indeterminacy estimates and the size of nodal sets in singular spaces. Advances in Mathematics, 2021, 389, 107919.	1.1	4
22	The polar cone of the set of monotone maps. Proceedings of the American Mathematical Society, 2014, 143, 781-787.	0.8	3
23	Optimal Transport with Branching Distance Costs and the Obstacle Problem. SIAM Journal on Mathematical Analysis, 2012, 44, 454-482.	1.9	2
24	Self-intersection of optimal geodesics. Bulletin of the London Mathematical Society, 2014, 46, 653-656.	0.8	2
25	Displacement convexity of Entropy and the distance cost Optimal Transportation. Annales De La Facult� Des Sciences De Toulouse, 2021, 30, 411-427.	0.3	1
26	A note on a Residual Subset of Lipschitz Functions on Metric Spaces. Proceedings of the Edinburgh Mathematical Society, 2015, 58, 631-636.	0.3	0
27	Rigidity for critical points in the L�vy-Gromov inequality. Mathematische Zeitschrift, 2018, 289, 1191-1197.	0.9	0