Carlo Sinestrari

List of Publications by Year
in descending order

36 papers	1,308 citations	567281 15 h-index	454955 30 g-index
36 all docs	36 docs citations	36 times ranked	411 citing authors

#	Article	IF	Citations
1	Semiconcave Functions, Hamiltonâ€"Jacobi Equations, and Optimal Control. , 2004, , .		424
2	Convexity estimates for mean curvature flow and singularities of mean convex surfaces. Acta Mathematica, 1999, 183, 45-70.	3.9	197
3	Mean curvature flow singularities for mean convex surfaces. Calculus of Variations and Partial Differential Equations, 1999, 8, 1-14.	1.7	132
4	Mean curvature flow with surgeries of twoâ€"convex hypersurfaces. Inventiones Mathematicae, 2009, 175, 137-221.	2.5	96
5	Convexity properties of the minimum time function. Calculus of Variations and Partial Differential Equations, 1995, 3, 273-298.	1.7	65
6	Regularity Results for Solutions of a Class of Hamilton-Jacobi Equations. Archive for Rational Mechanics and Analysis, 1997, 140, 197-223.	2.4	39
7	Volume-preserving flow by powers of the mth mean curvature. Calculus of Variations and Partial Differential Equations, 2010, 38, 441-469.	1.7	36
8	Singular gradient flow of the distance function and homotopy equivalence. Mathematische Annalen, 2013, 356, 23-43.	1.4	31
9	Convex ancient solutions of the mean curvature flow. Journal of Differential Geometry, 2015, 101, .	1.1	26
10	Semiconcavity for optimal control problems with exit time. Discrete and Continuous Dynamical Systems, 2000, 6, 975-997.	0.9	22
11	Optimality Conditions and Synthesis for the Minimum Time Problem. Set-Valued and Variational Analysis, 2000, 8, 127-148.	0.5	21
12	The Riemann Problem for an Inhomogeneous Conservation Law Without Convexity. SIAM Journal on Mathematical Analysis, 1997, 28, 109-135.	1.9	20
13	Large time behaviour of solutions of balance laws with periodic initial data. Nonlinear Differential Equations and Applications, 1995, 2, 111-131.	0.8	18
14	Instability of Discontinuous Traveling Waves for Hyperbolic Balance Laws. Journal of Differential Equations, 1997, 134, 269-285.	2.2	18
15	On a Differential Model for Growing Sandpiles with Non-Regular Sources. Communications in Partial Differential Equations, 2009, 34, 656-675.	2.2	18
16	Neckpinch singularities in fractional mean curvature flows. Proceedings of the American Mathematical Society, 2018, 146, 2637-2646.	0.8	16
17	Ancient solutions to the Ricci flow with pinched curvature. Duke Mathematical Journal, 2011, 158, .	1.5	15
18	Semiconcavity of solutions of stationary Hamilton-Jacobi equations. Nonlinear Analysis: Theory, Methods & Applications, 1995, 24, 1321-1326.	1.1	14

#	Article	IF	Citations
19	Convex hypersurfaces evolving by volume preserving curvature flows. Calculus of Variations and Partial Differential Equations, 2015, 54, 1985-1993.	1.7	14
20	On a class of nonlinear time optimal control problems. Discrete and Continuous Dynamical Systems, 1995, 1, 285-300.	0.9	12
21	On the spreading of characteristics for non-convex conservation laws. Proceedings of the Royal Society of Edinburgh Section A: Mathematics, 2001, 131, 909-925.	1.2	12
22	Convexity estimates for a nonhomogeneous mean curvature flow. Mathematische Zeitschrift, 2010, 266, 65-82.	0.9	12
23	Ancient Solutions of Geometric Flows with Curvature Pinching. Journal of Geometric Analysis, 2019, 29, 1206-1232.	1.0	12
24	Global propagation of singularities for time dependent Hamilton-Jacobi equations. Discrete and Continuous Dynamical Systems, 2015, 35, 4225-4239.	0.9	10
25	Volume-preserving nonhomogeneous mean curvature flow of convex hypersurfaces. Annali Di Matematica Pura Ed Applicata, 2018, 197, 1295-1309.	1.0	9
26	Strong spherical rigidity of ancient solutions of expansive curvature flows. Bulletin of the London Mathematical Society, 2020, 52, 94-99.	0.8	6
27	Convex sets evolving by volume-preserving fractional mean curvature flows. Analysis and PDE, 2020, 13, 2149-2171.	1.4	5
28	Regularity along optimal trajectories of the value function of a Mayer problem. ESAIM - Control, Optimisation and Calculus of Variations, 2004, 10, 666-676.	1.3	2
29	Volume preserving flow by powers of symmetric polynomials in the principal curvatures. Mathematische Zeitschrift, 2018, 289, 1219-1236.	0.9	2
30	Generation of singularities from the initial datum for Hamilton-Jacobi equations. Journal of Differential Equations, 2020, 268, 1412-1426.	2.2	2
31	Evolution of convex entire graphs by curvature flows. Geometric Flows, 2015, 1, .	1.2	1
32	Cylindrical estimates for mean curvature flow of hypersurfaces in CROSSes. Annals of Global Analysis and Geometry, 2017, 51, 179-188.	0.6	1
33	Layering methods for Hamiltonâ€“Jacobi equations with nonconvex Hamiltonian. Nonlinear Analysis: Theory, Methods & Applications, 1999, 38, 137-149.	1.1	0
34	Singularities of Three-Dimensional Ricci Flows. Lecture Notes in Mathematics, 2016, , 71-104.	0.2	0
35	Ricci Flow and Geometric Applications. Lecture Notes in Mathematics, 2016, , .	0.2	0
36	Mean curvature flow with surgeries. , 2010, , 36-38.		0