

# Xiaodong Cao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11061922/publications.pdf>

Version: 2024-02-01

20  
papers

572  
citations

758635

12  
h-index

752256

20  
g-index

21  
all docs

21  
docs citations

21  
times ranked

120  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gradient estimates for the heat equation under the Ricci flow. <i>Journal of Functional Analysis</i> , 2010, 258, 3517-3542.	0.7	85
2	Differential Harnack Estimates for Time-Dependent Heat Equations with Potentials. <i>Geometric and Functional Analysis</i> , 2009, 19, 989-1000.	0.6	68
3	First eigenvalues of geometric operators under the Ricci flow. <i>Proceedings of the American Mathematical Society</i> , 2008, 136, 4075-4078.	0.4	55
4	Eigenvalues of $\Delta + \frac{R}{2}$ on manifolds with nonnegative curvature operator. <i>Mathematische Annalen</i> , 2006, 337, 435-441.	0.7	53
5	Differential Harnack estimates for backward heat equations with potentials under the Ricci flow. <i>Journal of Functional Analysis</i> , 2008, 255, 1024-1038.	0.7	49
6	ON LOCALLY CONFORMALLY FLAT GRADIENT SHRINKING RICCI SOLITONS. <i>Communications in Contemporary Mathematics</i> , 2011, 13, 269-282.	0.6	48
7	The conjugate heat equation and Ancient solutions of the Ricci flow. <i>Advances in Mathematics</i> , 2011, 228, 2891-2919.	0.5	47
8	Differential Harnack estimates for a nonlinear heat equation. <i>Journal of Functional Analysis</i> , 2013, 265, 2312-2330.	0.7	23
9	Compact gradient shrinking Ricci solitons with positive curvature operator. <i>Journal of Geometric Analysis</i> , 2007, 17, 425-433.	0.5	21
10	Estimate and monotonicity of the first eigenvalue under the Ricci flow. <i>Mathematische Annalen</i> , 2012, 354, 451-463.	0.7	20
11	The Weyl tensor of gradient Ricci solitons. <i>Geometry and Topology</i> , 2016, 20, 389-436.	0.5	16
12	Backward Ricci flow on locally homogeneous 3-manifolds. <i>Communications in Analysis and Geometry</i> , 2009, 17, 305-325.	0.2	16
13	Harnack estimates for conjugate heat kernel on evolving manifolds. <i>Mathematische Zeitschrift</i> , 2015, 281, 201-214.	0.4	12
14	Differential Harnack estimates for Fisher's equation. <i>Pacific Journal of Mathematics</i> , 2017, 290, 273-300.	0.2	11
15	The backward behavior of the Ricci and cross-curvature flows on $\mathbb{S}^2 \times \mathbb{R}$ . <i>Communications in Analysis and Geometry</i> , 2009, 17, 777-796.	0.2	10
16	Curvature pinching estimate and singularities of the Ricci flow. <i>Communications in Analysis and Geometry</i> , 2011, 19, 975-990.	0.2	10
17	Harnack estimate for the Endangered Species Equation. <i>Proceedings of the American Mathematical Society</i> , 2015, 143, 4537-4545.	0.4	8
18	Einstein four-manifolds of pinched sectional curvature. <i>Advances in Mathematics</i> , 2018, 335, 322-342.	0.5	6

#	ARTICLE	IF	CITATIONS
19	Mean value inequalities and conditions to extend Ricci flow. <i>Mathematical Research Letters</i> , 2015, 22, 417-438.	0.2	3
20	Three-dimensional noncompact $\kappa$ -solutions that are Type I forward and backward. <i>Proceedings of the American Mathematical Society</i> , 2020, 148, 2595-2600.	0.4	0