

Rafe Mazzeo

List of Publications by Year in descending order

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70
papers

1,984
citations

218677

26
h-index

265206

42
g-index

70
all docs

70
docs citations

70
times ranked

543
citing authors

#	ARTICLE	IF	CITATIONS
1	The Hodge cohomology of a conformally compact metric. <i>Journal of Differential Geometry</i> , 1988, 28, .	1.1	127
2	Refined asymptotics for constant scalar curvature metrics with isolated singularities. <i>Inventiones Mathematicae</i> , 1999, 135, 233-272.	2.5	113
3	Pseudodifferential operators on manifolds with fibred boundaries. <i>Asian Journal of Mathematics</i> , 1998, 2, 833-866.	0.3	99
4	Hodge cohomology of gravitational instantons. <i>Duke Mathematical Journal</i> , 2004, 122, 485.	1.5	83
5	Kähler–Einstein metrics with edge singularities. <i>Annals of Mathematics</i> , 2016, , 95-176.	4.2	82
6	A construction of singular solutions for a semilinear elliptic equation using asymptotic analysis. <i>Journal of Differential Geometry</i> , 1996, 44, 331.	1.1	81
7	Constant scalar curvature metrics with isolated singularities. <i>Duke Mathematical Journal</i> , 1999, 99, .	1.5	80
8	Moduli Spaces of Singular Yamabe Metrics. <i>Journal of the American Mathematical Society</i> , 1996, 9, 303-344.	3.9	74
9	Unique Continuation at Infinity and Embedded Eigenvalues for Asymptotically Hyperbolic Manifolds. <i>American Journal of Mathematics</i> , 1991, 113, 25.	1.1	73
10	Singular Solutions of Fractional Order Conformal Laplacians. <i>Journal of Geometric Analysis</i> , 2012, 22, 845-863.	1.0	67
11	Title is missing!. <i>Indiana University Mathematics Journal</i> , 1991, 40, 1277.	0.9	60
12	Constant mean curvature surfaces with Delaunay ends. <i>Communications in Analysis and Geometry</i> , 2001, 9, 169-237.	0.4	60
13	The signature package on Witt spaces. <i>Annales Scientifiques De L'Ecole Normale Superieure</i> , 2012, 45, 241-310.	0.8	56
14	The moduli space of complete embedded constant mean curvature surfaces. <i>Geometric and Functional Analysis</i> , 1996, 6, 120-137.	1.8	53
15	Gluing and Wormholes for the Einstein Constraint Equations. <i>Communications in Mathematical Physics</i> , 2002, 231, 529-568.	2.2	49
16	Hodge theory on hyperbolic manifolds. <i>Duke Mathematical Journal</i> , 1990, 60, 509.	1.5	47
17	Wright’s Fisher Diffusion in One Dimension. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 568-608.	1.9	44
18	Constant mean curvature hypersurfaces condensing on a submanifold. <i>Geometric and Functional Analysis</i> , 2006, 16, 924-958.	1.8	43

#	ARTICLE	IF	CITATIONS
19	Analytic surgery and the accumulation of eigenvalues. <i>Communications in Analysis and Geometry</i> , 1995, 3, 115-222.	0.4	43
20	Renormalized Area and Properly Embedded Minimal Surfaces in Hyperbolic 3-Manifolds. <i>Communications in Mathematical Physics</i> , 2010, 297, 621-651.	2.2	39
21	Ricci flow on surfaces with conic singularities. <i>Analysis and PDE</i> , 2015, 8, 839-882.	1.4	35
22	Connected sum constructions for constant scalar curvature metrics. <i>Topological Methods in Nonlinear Analysis</i> , 1995, 6, 207.	0.2	34
23	The Yamabe problem on stratified spaces. <i>Geometric and Functional Analysis</i> , 2014, 24, 1039-1079.	1.8	33
24	On the Topology of Vacuum Spacetimes. <i>Annales Henri Poincare</i> , 2003, 4, 369-383.	1.7	29
25	A signature formula for manifolds with corners of codimension two. <i>Topology</i> , 1997, 36, 1055-1075.	0.3	27
26	Curvature and uniformization. <i>Israel Journal of Mathematics</i> , 2002, 130, 323-346.	0.8	27
27	Analytic continuation of the resolvent of the Laplacian on symmetric spaces of noncompact type. <i>Journal of Functional Analysis</i> , 2005, 228, 311-368.	1.4	27
28	Title is missing!. <i>International Mathematics Research Notices</i> , 2005, 2005, 3229.	1.0	23
29	The Novikov conjecture on Cheeger spaces. <i>Journal of Noncommutative Geometry</i> , 2017, 11, 451-506.	0.5	23
30	Ends of the moduli space of Higgs bundles. <i>Duke Mathematical Journal</i> , 2016, 165, .	1.5	22
31	Maskit combinations of Poincaré-Einstein metrics. <i>Advances in Mathematics</i> , 2006, 204, 379-412.	1.1	20
32	Ricci flow on surfaces with cusps. <i>Mathematische Annalen</i> , 2009, 345, 819-834.	1.4	20
33	Remarks on a paper of Friedlander concerning inequalities between Neumann and Dirichlet eigenvalues. <i>International Mathematics Research Notices</i> , 1991, 1991, 41.	1.0	19
34	Infinitesimal rigidity of cone-manifolds and the Stoker problem for hyperbolic and Euclidean polyhedra. <i>Journal of Differential Geometry</i> , 2011, 87, .	1.1	19
35	On many-black-hole vacuum spacetimes. <i>Classical and Quantum Gravity</i> , 2003, 20, 729-754.	4.0	16
36	Minimal surfaces with positive genus and finite total curvature in \mathbb{H}^3 . <i>Geometry and Topology</i> , 2014, 18, 141-177.	1.3	15

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37	Resolvent of the Laplacian on geometrically finite hyperbolic manifolds. <i>Inventiones Mathematicae</i> , 2012, 187, 99-144.	2.5	13
38	Hölder regularity of solutions for Schrödinger operators on stratified spaces. <i>Journal of Functional Analysis</i> , 2015, 269, 815-840.	1.4	12
39	Scattering theory on $SL(3)/SO(3)$: Connections with quantum 3-body scattering. <i>Proceedings of the London Mathematical Society</i> , 2007, 94, 545-593.	1.3	11
40	The Ricci continuity method for the complex Monge-Ampère equation, with applications to Kähler-Einstein edge metrics. <i>Comptes Rendus Mathématique</i> , 2012, 350, 693-697.	0.3	11
41	Initial Data Sets with Ends of Cylindrical Type: I. The Lichnerowicz Equation. <i>Annales Henri Poincaré</i> , 2015, 16, 1231-1266.	1.7	11
42	Harnack Inequalities and Heat Kernel Estimates for Degenerate Diffusion Operators Arising in Population Biology. <i>Applied Mathematics Research Express</i> , 2016, 2016, 217-280.	1.0	11
43	Analytic continuation of the resolvent of the Laplacian on $SL(3)/SO(3)$. <i>American Journal of Mathematics</i> , 2004, 126, 821-844.	1.1	10
44	A heat trace anomaly on polygons. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 2015, 159, 303-319.	0.4	10
45	Hodge theory on Cheeger spaces. <i>Journal Für Die Reine Und Angewandte Mathematik</i> , 2018, 2018, 29-102.	0.9	10
46	On the asymptotic behavior of minimal surfaces in $\mathbb{H}^2 \times \mathbb{R}$. <i>Indiana University Mathematics Journal</i> , 2017, 66, 631-658.	0.9	10
47	Fredholm theory for elliptic operators on quasi-asymptotically conical spaces. <i>Proceedings of the London Mathematical Society</i> , 2018, 116, 1112-1160.	1.3	10
48	Asymptotic Geometry of the Hitchin Metric. <i>Communications in Mathematical Physics</i> , 2019, 367, 151-191.	2.2	10
49	Conical metrics on Riemann surfaces, I: The compactified configuration space and regularity. <i>Geometry and Topology</i> , 2020, 24, 309-372.	1.3	10
50	Singular Sturm-Liouville Theory on Manifolds. <i>Journal of Differential Equations</i> , 2001, 176, 387-444.	2.2	9
51	Resolution blowups, spectral convergence and quasi-asymptotically conical spaces. <i>Annales Aux Équations Aux Dérivées Partielles</i> , 2006, , 1-16.	0.2	9
52	Constraining Surface Interpolations Using Elastic Plate Bending Solutions with Applications to Geologic Folding. <i>Mathematical Geosciences</i> , 2009, 41, 1-14.	2.4	8
53	The Moduli Space of Asymptotically Cylindrical Calabi-Yau Manifolds. <i>Communications in Mathematical Physics</i> , 2015, 338, 953-1009.	2.2	8
54	Limiting configurations for solutions of Hitchin's equation. <i>Séminaire De Théorie Spectrale Et Géométrie</i> , 0, 31, 91-116.	0.0	8

#	ARTICLE	IF	CITATIONS
55	Poincaré-Einstein metrics and the Schouten tensor. Pacific Journal of Mathematics, 2003, 212, 169-185.	0.5	7
56	The KW equations and the Nahm pole boundary condition with knots. Communications in Analysis and Geometry, 2020, 28, 871-942.	0.4	6
57	The extended Bogomolny equations and generalized Nahm pole boundary condition. Geometry and Topology, 2019, 23, 2475-2517.	1.3	5
58	Complete Willmore surfaces in \mathbb{H}^3 with bounded energy: Boundary regularity and bubbling. Journal of Differential Geometry, 2015, 101, .	1.1	4
59	Properly embedded minimal annuli in $\mathbb{H}^2 \times \mathbb{R}$. Mathematische Annalen, 2019, 375, 541-594.	1.4	4
60	Manifolds with Many Rarita-Schwinger Fields. Communications in Mathematical Physics, 2021, 384, 533-548.	2.2	4
61	Renormalized volume and the evolution of APEs. Geometric Flows, 2015, 1, .	1.2	2
62	Refined intersection homology on non-Witt spaces. Journal of Topology and Analysis, 2015, 07, 105-133.	0.5	2
63	Asymptotics of the Weil-Petersson Metric. International Mathematics Research Notices, 0, , rnw056.	1.0	2
64	Spectral theory for the Weil-Petersson Laplacian on the Riemann moduli space. Commentarii Mathematici Helvetici, 2014, 89, 867-894.	0.7	2
65	Ricci flow on asymptotically conical surfaces with nontrivial topology. Journal Fur Die Reine Und Angewandte Mathematik, 2013, 2013, .	0.9	1
66	L2-cohomology and complete Hamiltonian manifolds. Journal of Geometry and Physics, 2015, 87, 305-313.	1.4	1
67	Asymptotic geometry of the moduli space of parabolic $SL(2, \mathbb{C})$ -Higgs bundles. Journal of the London Mathematical Society, 0, , .	1.0	1
68	Geometry and Physics of Higgs Bundles. Oberwolfach Reports, 2019, 16, 1357-1417.	0.0	0
69	Conical Metrics on Riemann Surfaces, II: Spherical Metrics. International Mathematics Research Notices, 0, , .	1.0	0
70	Families of Minimal Surfaces in $\mathbb{H}^2 \times \mathbb{R}$ Foliated by Arcs and Their Jacobi Fields. Springer Proceedings in Mathematics and Statistics, 2021, , 67-88.	0.2	0