

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	Manifolds with Many Rarita-Schwinger Fields. Communications in Mathematical Physics, 2021, 384, 533-548.	2.2	4
2	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
3	Conical metrics on Riemann surfaces, I: The compactified configuration space and regularity. Geometry and Topology, 2020, 24, 309-372.	1.3	10
4	The KW equations and the Nahm pole boundary condition with knots. Communications in Analysis and Geometry, 2020, 28, 871-942.	0.4	6
5	The extended Bogomolny equations and generalized Nahm pole boundary condition. Geometry and Topology, 2019, 23, 2475-2517.	1.3	5
6	Properly embedded minimal annuli in $\mathbb{H}^2 \times \mathbb{R}$. Mathematische Annalen, 2019, 375, 541-594.	1.4	4
7	Asymptotic Geometry of the Hitchin Metric. Communications in Mathematical Physics, 2019, 367, 151-191.	2.2	10
8	Geometry and Physics of Higgs Bundles. Oberwolfach Reports, 2019, 16, 1357-1417.	0.0	0
9	Hodge theory on Cheeger spaces. Journal Fur Die Reine Und Angewandte Mathematik, 2018, 2018, 29-102.	0.9	10
10	Fredholm theory for elliptic operators on quasi-asymptotically conical spaces. Proceedings of the London Mathematical Society, 2018, 116, 1112-1160.	1.3	10
11	The Novikov conjecture on Cheeger spaces. Journal of Noncommutative Geometry, 2017, 11, 451-506.	0.5	23
12	On the asymptotic behavior of minimal surfaces in $\mathbb{H}^2 \times \mathbb{R}$. Indiana University Mathematics Journal, 2017, 66, 631-658.	0.9	10
13	Ends of the moduli space of Higgs bundles. Duke Mathematical Journal, 2016, 165, .	1.5	22
14	Harnack Inequalities and Heat Kernel Estimates for Degenerate Diffusion Operators Arising in Population Biology. Applied Mathematics Research Express, 2016, 2016, 217-280.	1.0	11
15	Kähler-Einstein metrics with edge singularities. Annals of Mathematics, 2016, , 95-176.	4.2	82
16	A heat trace anomaly on polygons. Mathematical Proceedings of the Cambridge Philosophical Society, 2015, 159, 303-319.	0.4	10
17	Ricci flow on surfaces with conic singularities. Analysis and PDE, 2015, 8, 839-882.	1.4	35
18	Complete Willmore surfaces in \mathbb{H}^3 with bounded energy: Boundary regularity and bubbling. Journal of Differential Geometry, 2015, 101, .	1.1	4

#	ARTICLE	IF	CITATIONS
19	Renormalized volume and the evolution of APEs. Geometric Flows, 2015, 1, .	1.2	2
20	Refined intersection homology on non-Witt spaces. Journal of Topology and Analysis, 2015, 07, 105-133.	0.5	2
21	Initial Data Sets with Ends of Cylindrical Type: I. The Lichnerowicz Equation. Annales Henri Poincare, 2015, 16, 1231-1266.	1.7	11
22	Hölder regularity of solutions for Schrödinger operators on stratified spaces. Journal of Functional Analysis, 2015, 269, 815-840.	1.4	12
23	The Moduli Space of Asymptotically Cylindrical Calabi-Yau Manifolds. Communications in Mathematical Physics, 2015, 338, 953-1009.	2.2	8
24	L ² -cohomology and complete Hamiltonian manifolds. Journal of Geometry and Physics, 2015, 87, 305-313.	1.4	1
25	The Yamabe problem on stratified spaces. Geometric and Functional Analysis, 2014, 24, 1039-1079.	1.8	33
26	Minimal surfaces with positive genus and finite total curvature in \mathbb{R}^n . Geometry and Topology, 2014, 18, 141-177.	1.3	15
27	Spectral theory for the Weil-Petersson Laplacian on the Riemann moduli space. Commentarii Mathematici Helvetici, 2014, 89, 867-894.	0.7	2
28	Ricci flow on asymptotically conical surfaces with nontrivial topology. Journal Fur Die Reine Und Angewandte Mathematik, 2013, 2013, .	0.9	1
29	The Ricci continuity method for the complex Monge-Ampère equation, with applications to Kähler-Einstein edge metrics. Comptes Rendus Mathematique, 2012, 350, 693-697.	0.3	11
30	Singular Solutions of Fractional Order Conformal Laplacians. Journal of Geometric Analysis, 2012, 22, 845-863.	1.0	67
31	Resolvent of the Laplacian on geometrically finite hyperbolic manifolds. Inventiones Mathematicae, 2012, 187, 99-144.	2.5	13
32	The signature package on Witt spaces. Annales Scientifiques De L'Ecole Normale Superieure, 2012, 45, 241-310.	0.8	56
33	Infinitesimal rigidity of cone-manifolds and the Stoker problem for hyperbolic and Euclidean polyhedra. Journal of Differential Geometry, 2011, 87, .	1.1	19
34	Renormalized Area and Properly Embedded Minimal Surfaces in Hyperbolic 3-Manifolds. Communications in Mathematical Physics, 2010, 297, 621-651.	2.2	39
35	Wright-Fisher Diffusion in One Dimension. SIAM Journal on Mathematical Analysis, 2010, 42, 568-608.	1.9	44
36	Constraining Surface Interpolations Using Elastic Plate Bending Solutions with Applications to Geologic Folding. Mathematical Geosciences, 2009, 41, 1-14.	2.4	8

#	ARTICLE	IF	CITATIONS
37	Ricci flow on surfaces with cusps. <i>Mathematische Annalen</i> , 2009, 345, 819-834.	1.4	20
38	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
39	Maskit combinations of Poincaré-Einstein metrics. <i>Advances in Mathematics</i> , 2006, 204, 379-412.	1.1	20
40	Constant mean curvature hypersurfaces condensing on a submanifold. <i>Geometric and Functional Analysis</i> , 2006, 16, 924-958.	1.8	43
41	Resolution blowups, spectral convergence and quasi-asymptotically conical spaces. <i>Journées Équations Aux Variables Partielles</i> , 2006, , 1-16.	0.2	9
42	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
43	Title is missing!. <i>International Mathematics Research Notices</i> , 2005, 2005, 3229.	1.0	23
44	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
45	Hodge cohomology of gravitational instantons. <i>Duke Mathematical Journal</i> , 2004, 122, 485.	1.5	83
46	On the Topology of Vacuum Spacetimes. <i>Annales Henri Poincare</i> , 2003, 4, 369-383.	1.7	29
47	On many-black-hole vacuum spacetimes. <i>Classical and Quantum Gravity</i> , 2003, 20, 729-754.	4.0	16
48	Poincaré-Einstein metrics and the Schouten tensor. <i>Pacific Journal of Mathematics</i> , 2003, 212, 169-185.	0.5	7
49	Curvature and uniformization. <i>Israel Journal of Mathematics</i> , 2002, 130, 323-346.	0.8	27
50	Gluing and Wormholes for the Einstein Constraint Equations. <i>Communications in Mathematical Physics</i> , 2002, 231, 529-568.	2.2	49
51	Singular Sturm-Liouville Theory on Manifolds. <i>Journal of Differential Equations</i> , 2001, 176, 387-444.	2.2	9
52	Constant mean curvature surfaces with Delaunay ends. <i>Communications in Analysis and Geometry</i> , 2001, 9, 169-237.	0.4	60
53	Constant scalar curvature metrics with isolated singularities. <i>Duke Mathematical Journal</i> , 1999, 99, .	1.5	80
54	Refined asymptotics for constant scalar curvature metrics with isolated singularities. <i>Inventiones Mathematicae</i> , 1999, 135, 233-272.	2.5	113

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55	Pseudodifferential operators on manifolds with fibred boundaries. Asian Journal of Mathematics, 1998, 2, 833-866.	0.3	99
56	A signature formula for manifolds with corners of codimension two. Topology, 1997, 36, 1055-1075.	0.3	27
57	Moduli Spaces of Singular Yamabe Metrics. Journal of the American Mathematical Society, 1996, 9, 303-344.	3.9	74
58	A construction of singular solutions for a semilinear elliptic equation using asymptotic analysis. Journal of Differential Geometry, 1996, 44, 331.	1.1	81
59	The moduli space of complete embedded constant mean curvature surfaces. Geometric and Functional Analysis, 1996, 6, 120-137.	1.8	53
60	Connected sum constructions for constant scalar curvature metrics. Topological Methods in Nonlinear Analysis, 1995, 6, 207.	0.2	34
61	Analytic surgery and the accumulation of eigenvalues. Communications in Analysis and Geometry, 1995, 3, 115-222.	0.4	43
62	Remarks on a paper of Friedlander concerning inequalities between Neumann and Dirichlet eigenvalues. International Mathematics Research Notices, 1991, 1991, 41.	1.0	19
63	Unique Continuation at Infinity and Embedded Eigenvalues for Asymptotically Hyperbolic Manifolds. American Journal of Mathematics, 1991, 113, 25.	1.1	73
64	Title is missing!. Indiana University Mathematics Journal, 1991, 40, 1277.	0.9	60
65	Hodge theory on hyperbolic manifolds. Duke Mathematical Journal, 1990, 60, 509.	1.5	47
66	The Hodge cohomology of a conformally compact metric. Journal of Differential Geometry, 1988, 28, .	1.1	127
67	Asymptotics of the Weil-Petersson Metric. International Mathematics Research Notices, 0, , rnw056.	1.0	2
68	Conical Metrics on Riemann Surfaces, II: Spherical Metrics. International Mathematics Research Notices, 0, , .	1.0	0
69	Limiting configurations for solutions of Hitchin's equation. SÃ©minaire De ThÃ©orie Spectrale Et GÃ©omÃ©trie, 0, 31, 91-116.	0.0	8
70	Asymptotic geometry of the moduli space of parabolic $SL(2, \mathbb{C})$ -Higgs bundles. Journal of the London Mathematical Society, 0, , .	1.0	1