

Shing-Tung Yau

List of Publications by Year in descending order

Source: [//exaly.com/author-pdf/10834404/publications.pdf](https://exaly.com/author-pdf/10834404/publications.pdf)

Version: 2024-02-01

225
papers

11,533
citations

62310

43
h-index

29301

104
g-index

230
all docs

230
docs citations

230
times ranked

2752
citing authors

#	ARTICLE	IF	CITATIONS
1	On the ricci curvature of a compact Kähler manifold and the complex monge-ampère equation, I. Communications on Pure and Applied Mathematics, 1978, 31, 339-411.	3.1	1,424
2	On the proof of the positive mass conjecture in general relativity. Communications in Mathematical Physics, 1979, 65, 45-76.	2.3	944
3	Harmonic functions on complete riemannian manifolds. Communications on Pure and Applied Mathematics, 1975, 28, 201-228.	3.1	858
4	Title is missing!. Indiana University Mathematics Journal, 1976, 25, 659.	0.9	556
5	Proof of the positive mass theorem. II. Communications in Mathematical Physics, 1981, 79, 231-260.	2.3	536
6	Genus Zero Surface Conformal Mapping and Its Application to Brain Surface Mapping. IEEE Transactions on Medical Imaging, 2004, 23, 949-958.	9.0	457
7	Maximal Space-like Hypersurfaces in the Lorentz-Minkowski Spaces. Annals of Mathematics, 1976, 104, 407.	4.3	428
8	Existence of Incompressible Minimal Surfaces and the Topology of Three Dimensional Manifolds with Non-Negative Scalar Curvature. Annals of Mathematics, 1979, 110, 127.	4.3	422
9	A new conformal invariant and its applications to the Willmore conjecture and the first eigenvalue of compact surfaces. Inventiones Mathematicae, 1982, 69, 269-291.	2.5	371
10	On the existence of a complete Kähler metric on non-compact complex manifolds and the regularity of fefferman's equation. Communications on Pure and Applied Mathematics, 1980, 33, 507-544.	3.1	332
11	On the regularity of the monge-ampère equation $\det(\hat{\alpha}, 2u/\hat{\alpha}, \hat{\alpha}, \hat{\alpha}) = f(x, u)$. Communications on Pure and Applied Mathematics, 1977, 30, 41-68.	3.1	216
12	The Geometric Dual of "Maximisation for Toric Sasaki" Einstein Manifolds. Communications in Mathematical Physics, 2006, 268, 39-65.	2.3	214
13	On the regularity of the solution of then-dimensional Minkowski problem. Communications on Pure and Applied Mathematics, 1976, 29, 495-516.	3.1	213
14	Sasaki" Einstein Manifolds and Volume Minimisation. Communications in Mathematical Physics, 2008, 280, 611-673.	2.3	213
15	Embedded Minimal Surfaces, Exotic Spheres, and Manifolds with Positive Ricci Curvature. Annals of Mathematics, 1982, 116, 621.	4.3	193
16	Complete affine hypersurfaces. Part I. The completeness of affine metrics. Communications on Pure and Applied Mathematics, 1986, 39, 839-866.	3.1	183
17	The existence of embedded minimal surfaces and the problem of uniqueness. Mathematische Zeitschrift, 1982, 179, 151-168.	0.9	156
18	A lower bound for the heat kernel. Communications on Pure and Applied Mathematics, 1981, 34, 465-480.	3.1	154

#	ARTICLE	IF	CITATIONS
19	Positivity of the Total Mass of a General Space-Time. <i>Physical Review Letters</i> , 1979, 43, 1457-1459.	7.9	148
20	Definition of center of mass for isolated physical systems and unique foliations by stable spheres with constant mean curvature. <i>Inventiones Mathematicae</i> , 1996, 124, 281-311.	2.5	138
21	Computing conformal structures of surfaces. <i>Communications in Information and Systems</i> , 2002, 2, 121-146.	0.5	127
22	Positivity of Quasilocal Mass. <i>Physical Review Letters</i> , 2003, 90, 231102.	7.9	105
23	Complete Kähler manifolds with zero Ricci curvature. I. <i>Journal of the American Mathematical Society</i> , 1990, 3, 579-609.	4.2	104
24	The energy and the linear momentum of space-times in general relativity. <i>Communications in Mathematical Physics</i> , 1981, 79, 47-51.	2.3	103
25	Proof of the Positive-Action Conjecture in Quantum Relativity. <i>Physical Review Letters</i> , 1979, 42, 547-548.	7.9	96
26	Obstructions to the Existence of Sasakian Einstein Metrics. <i>Communications in Mathematical Physics</i> , 2007, 273, 803-827.	2.3	93
27	Quasilocal Mass in General Relativity. <i>Physical Review Letters</i> , 2009, 102, 021101.	7.9	92
28	Anomaly cancellation and smooth non-Kähler solutions in heterotic string theory. <i>Nuclear Physics B</i> , 2006, 751, 108-128.	2.6	84
29	Isometric Embeddings into the Minkowski Space and New Quasi-Local Mass. <i>Communications in Mathematical Physics</i> , 2009, 288, 919-942.	2.3	84
30	Brain Surface Conformal Parameterization Using Riemann Surface Structure. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 853-865.	9.0	82
31	Brain Surface Conformal Parameterization With the Ricci Flow. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 251-264.	9.0	64
32	Teichmüller Mapping (T-Map) and Its Applications to Landmark Matching Registration. <i>SIAM Journal on Imaging Sciences</i> , 2014, 7, 391-426.	2.3	64
33	Complete Kahler Manifolds With Nonpositive Curvature of Faster Than Quadratic Decay. <i>Annals of Mathematics</i> , 1977, 105, 225.	4.3	63
34	Optimization of Surface Registrations Using Beltrami Holomorphic Flow. <i>Journal of Scientific Computing</i> , 2012, 50, 557-585.	2.4	61
35	Non-existence of time-periodic solutions of the Dirac equation in a Reissner-Nordström black hole background. <i>Journal of Mathematical Physics</i> , 2000, 41, 2173-2194.	1.1	59
36	Variational principles for Minkowski type problems, discrete optimal transport, and discrete Monge-Ampère equations. <i>Asian Journal of Mathematics</i> , 2016, 20, 383-398.	0.3	58

#	ARTICLE	IF	CITATIONS
37	COMPLETE THREE DIMENSIONAL MANIFOLDS WITH POSITIVE RICCI CURVATURE AND SCALAR CURVATURE. , 1982, , 209-228.		54
38	Small resolutions of SU(5)-models in F-theory. Advances in Theoretical and Mathematical Physics, 2013, 17, 1195-1253.	0.6	53
39	Taming symplectic forms and the Calabi-Yau equation. Proceedings of the London Mathematical Society, 2008, 97, 401-424.	1.3	52
40	Three dimensional canonical singularity and five dimensional N $\mathcal{N} = 1$ SCFT. Journal of High Energy Physics, 2017, 2017, 1.	4.7	52
41	Local Heterotic Torsional Models. Communications in Mathematical Physics, 2009, 289, 1151-1169.	2.3	50
42	Negative holomorphic curvature and positive canonical bundle. Inventiones Mathematicae, 2016, 204, 595-604.	2.5	48
43	Nonexistence of time-periodic solutions of the Dirac equation in an axisymmetric black hole geometry. Communications on Pure and Applied Mathematics, 2000, 53, 902-929.	3.1	47
44	Computing quasiconformal maps using an auxiliary metric and discrete curvature flow. Numerische Mathematik, 2012, 121, 671-703.	1.9	44
45	Homotopy Theory for Digraphs. Pure and Applied Mathematics Quarterly, 2014, 10, 619-674.	0.4	41
46	Positivity of quasi-local mass II. Journal of the American Mathematical Society, 2005, 19, 181-204.	4.2	40
47	A special Lagrangian type equation for holomorphic line bundles. Mathematische Annalen, 2017, 369, 869-898.	1.5	39
48	Cohomology of digraphs and (undirected) graphs. Asian Journal of Mathematics, 2015, 19, 887-932.	0.3	39
49	Non-Existence of Black Hole Solutions for a Spherically Symmetric, Static Einstein-Dirac-Maxwell System. Communications in Mathematical Physics, 1999, 205, 249-262.	2.3	36
50	Numerical Computation of Surface Conformal Mappings. Computational Methods and Function Theory, 2012, 11, 747-787.	1.5	36
51	Special polynomial rings, quasi modular forms and duality of topological strings. Advances in Theoretical and Mathematical Physics, 2014, 18, 401-467.	0.6	33
52	Invariant Solutions to the Strominger System on Complex Lie Groups and Their Quotients. Communications in Mathematical Physics, 2015, 338, 1183-1195.	2.3	28
53	On the path homology theory of digraphs and Eilenberg-Steenrod axioms. Homology, Homotopy and Applications, 2018, 20, 179-205.	0.5	28
54	Graphs associated with simplicial complexes. Homology, Homotopy and Applications, 2014, 16, 295-311.	0.5	27

#	ARTICLE	IF	CITATIONS
55	Some Properties of Matrix Harmonics on S^2 . Communications in Mathematical Physics, 1998, 195, 67-77.	2.3	26
56	A remark on our paper "Negative holomorphic curvature and positive canonical bundle". Communications in Analysis and Geometry, 2016, 24, 901-912.	0.4	26
57	An Efficient Energy Minimization for Conformal Parameterizations. Journal of Scientific Computing, 2017, 73, 203-227.	2.4	25
58	$(1,1)$ forms with specified Lagrangian phase: ϵ -a priori estimates and algebraic obstructions. Cambridge Journal of Mathematics, 2020, 8, 407-452.	1.5	25
59	Volume doubling, Poincaré inequality and Gaussian heat kernel estimate for non-negatively curved graphs. Journal Fur Die Reine Und Angewandte Mathematik, 2019, 2019, 89-130.	0.9	24
60	Shape-Based Diffeomorphic Registration on Hippocampal Surfaces Using Beltrami Holomorphic Flow. Lecture Notes in Computer Science, 2010, 13, 323-330.	1.3	24
61	SURVEY ON PARTIAL DIFFERENTIAL EQUATIONS IN 3 DIFFERENTIAL GEOMETRY. , 1982, , 1-72.		23
62	Gradient estimates, Harnack inequalities and estimates for heat kernels of the sum of squares of vector fields. Mathematische Zeitschrift, 1992, 211, 485-504.	0.9	22
63	Path Complexes and their Homologies. Journal of Mathematical Sciences, 2020, 248, 564-599.	0.4	22
64	Homologies of digraphs and Kánneth formulas. Communications in Analysis and Geometry, 2017, 25, 969-1018.	0.4	22
65	Local Geometry of the G_2 Moduli Space. Communications in Mathematical Physics, 2009, 287, 459-488.	2.3	21
66	Conformal Slit Mapping and Its Applications to Brain Surface Parameterization. Lecture Notes in Computer Science, 2008, 11, 585-593.	1.3	21
67	Positive scalar curvature and minimal hypersurface singularities. Journal of Differential Geometry, 2019, 24, 441-480.	1.0	20
68	Hyperbolic Harmonic Mapping for Constrained Brain Surface Registration. , 2013, , .		19
69	Generalized Cohomologies and Supersymmetry. Communications in Mathematical Physics, 2014, 326, 875-885.	2.3	19
70	Pretty good quantum state transfer in symmetric spin networks via magnetic field. Quantum Information Processing, 2017, 16, 1.	2.2	19
71	A Novel Stretch Energy Minimization Algorithm for Equiareal Parameterizations. Journal of Scientific Computing, 2019, 78, 1353-1386.	2.4	19
72	Geometric accuracy analysis for discrete surface approximation. Computer Aided Geometric Design, 2007, 24, 323-338.	1.2	18

#	ARTICLE	IF	CITATIONS
73	Path homology theory of multigraphs and quivers. Forum Mathematicum, 2018, 30, 1319-1337.	0.7	18
74	Conserved Quantities in General Relativity: From the Quasi-Local Level to Spatial Infinity. Communications in Mathematical Physics, 2015, 338, 31-80.	2.3	17
75	Existence of Solutions to Mean Field Equations on Graphs. Communications in Mathematical Physics, 2020, 377, 613-621.	2.3	17
76	4D $\mathcal{N} = 2$ SCFT and singularity theory. Part II: complete intersection. Advances in Theoretical and Mathematical Physics, 2017, 21, 121-145.	0.6	17
77	Fundamentals of Computational Conformal Geometry. Mathematics in Computer Science, 2010, 4, 389-429.	0.4	16
78	On a cohomology of digraphs and Hochschild cohomology. Journal of Homotopy and Related Structures, 2016, 11, 209-230.	0.7	16
79	Sharp Davies-Gaffney-Grigoryan Lemma on graphs. Mathematische Annalen, 2017, 368, 1429-1437.	1.5	16
80	A Novel Algorithm for Volume-Preserving Parameterizations of 3-Manifolds. SIAM Journal on Imaging Sciences, 2019, 12, 1071-1098.	2.3	16
81	Brain Surface Conformal Parameterization with Algebraic Functions. Lecture Notes in Computer Science, 2006, 9, 946-954.	1.3	16
82	Singularities and gauge theory phases, II. Advances in Theoretical and Mathematical Physics, 2016, 20, 683-749.	0.6	16
83	Teichmüller Shape Descriptor and Its Application to Alzheimer's Disease Study. International Journal of Computer Vision, 2013, 105, 155-170.	15.5	15
84	Calabi-Yau Volumes and Reflexive Polytopes. Communications in Mathematical Physics, 2018, 361, 155-204.	2.3	15
85	The dynamical model for COVID-19 with asymptotic analysis and numerical implementations. Applied Mathematical Modelling, 2021, 89, 1965-1982.	4.3	15
86	Brain Surface Parameterization Using Riemann Surface Structure. Lecture Notes in Computer Science, 2005, 8, 657-665.	1.3	15
87	Supertranslation invariance of angular momentum. Advances in Theoretical and Mathematical Physics, 2021, 25, 777-789.	0.6	15
88	$c = 2$ Rational Toroidal Conformal Field Theories via the Gauss Product. Communications in Mathematical Physics, 2003, 241, 245-286.	2.3	14
89	Evaluating Quasilocal Energy and Solving Optimal Embedding Equation at Null Infinity. Communications in Mathematical Physics, 2011, 308, 845-863.	2.3	14
90	Hyperbolic Harmonic Mapping for Surface Registration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 965-980.	14.0	14

#	ARTICLE	IF	CITATIONS
91	D-type fiber-base duality. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	14
92	ADE string chains and mirror symmetry. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	13
93	Homotopically trivial symmetries of haken manifolds are toral. <i>Topology</i> , 1983, 22, 179-189.	0.3	12
94	Uniform texture synthesis and texture mapping using global parameterization. <i>Visual Computer</i> , 2005, 21, 801-810.	3.5	12
95	Limit of Quasilocal Mass at Spatial Infinity. <i>Communications in Mathematical Physics</i> , 2010, 296, 271-283.	2.3	12
96	Simplicial Ricci Flow. <i>Communications in Mathematical Physics</i> , 2014, 329, 579-608.	2.3	12
97	Minimizing Properties of Critical Points of Quasi-Local Energy. <i>Communications in Mathematical Physics</i> , 2014, 329, 919-935.	2.3	12
98	Moment Maps, Nonlinear PDE and Stability in Mirror Symmetry, I: Geodesics. <i>Annals of PDE</i> , 2021, 7, 1.	1.8	12
99	Invariant metrics on negatively pinched complete Kähler manifolds. <i>Journal of the American Mathematical Society</i> , 2019, 33, 103-133.	4.2	11
100	Evolution of Angular Momentum and Center of Mass at Null Infinity. <i>Communications in Mathematical Physics</i> , 2021, 386, 551-588.	2.3	11
101	Davies's Gaffney's Grigor'yan Lemma on graphs. <i>Communications in Analysis and Geometry</i> , 2015, 23, 1031-1068.	0.4	11
102	Evaluating Small Sphere Limit of the Wang's Yau Quasi-Local Energy. <i>Communications in Mathematical Physics</i> , 2018, 357, 731-774.	2.3	10
103	Investigating the role of eye movements and physiological signals in search satisfaction prediction using geometric analysis. <i>Journal of the Association for Information Science and Technology</i> , 2019, 70, 981-999.	2.9	10
104	Quasilocal angular momentum and center of mass in general relativity. <i>Advances in Theoretical and Mathematical Physics</i> , 2016, 20, 671-682.	0.6	10
105	Quasi-local energy with respect to a static spacetime. <i>Advances in Theoretical and Mathematical Physics</i> , 2018, 22, 1-23.	0.6	10
106	S^1 elliptic fibrations: non-Kodaira fibers and new orientifold limits of F-theory. <i>Communications in Number Theory and Physics</i> , 2015, 9, 583-642.	1.0	10
107	An explicit formula of hitting times for random walks on graphs. <i>Pure and Applied Mathematics Quarterly</i> , 2014, 10, 567-581.	0.4	10
108	Volumetric harmonic brain mapping. , 0, , .		9

#	ARTICLE	IF	CITATIONS
109	BRAIN SURFACE CONFORMAL PARAMETERIZATION WITH THE RICCI FLOW. , 2007, , .		9
110	On the Validity of the Definition of Angular Momentum in General Relativity. Annales Henri Poincare, 2016, 17, 253-270.	1.8	9
111	Teichmüller Shape Space Theory and Its Application to Brain Morphometry. Lecture Notes in Computer Science, 2009, 12, 133-140.	1.3	9
112	Period integrals of CY and general type complete intersections. Inventiones Mathematicae, 2013, 191, 35-89.	2.5	8
113	A Novel Symmetric Skew-Hamiltonian Isotropic Lanczos Algorithm for Spectral Conformal Parameterizations. Journal of Scientific Computing, 2014, 61, 558-583.	2.4	8
114	Gauss-Manin Connection in Disguise: Calabi-Yau Threefolds. Communications in Mathematical Physics, 2016, 344, 889-914.	2.3	8
115	3D brain tumor segmentation using a two-stage optimal mass transport algorithm. Scientific Reports, 2021, 11, 14686.	3.4	8
116	Curvatures of moduli space of curves and applications. Asian Journal of Mathematics, 2017, 21, 841-854.	0.3	8
117	Calabi-Yau modular forms in limit: Elliptic fibrations. Communications in Number Theory and Physics, 2017, 11, 879-912.	1.0	8
118	Compression of surface registrations using Beltrami coefficients. , 2010, , .		7
119	Poisson metrics on flat vector bundles over non-compact curves. Communications in Analysis and Geometry, 2019, 27, 529-597.	0.4	7
120	A survey of Calabi-Yau manifolds. Journal of Differential Geometry, 2008, 13, 277-318.	1.0	7
121	Recent development on the geometry of the Teichmüller and moduli spaces of Riemann surfaces. Journal of Differential Geometry, 2009, 14, 221-260.	1.0	7
122	The Structure of Manifolds with Positive Scalar Curvature. , 1987, , 235-242.		6
123	THE COUPLING OF GRAVITY TO SPIN AND ELECTROMAGNETISM. Modern Physics Letters A, 1999, 14, 1053-1057.	1.2	6
124	Complex geometry: Its brief history and its future. Science in China Series A: Mathematics, 2005, 48, 47-60.	0.5	6
125	Geometric aspects of the moduli space of Riemann surfaces. Science in China Series A: Mathematics, 2005, 48, 97-122.	0.5	6
126	Metrics on complex manifolds. Science China Mathematics, 2010, 53, 565-572.	1.7	6

#	ARTICLE	IF	CITATIONS
127	Conformal parameterization for multiply connected domains: combining finite elements and complex analysis. <i>Engineering With Computers</i> , 2014, 30, 441-455.	5.9	6
128	Airy Equation for the Topological String Partition Function in a Scaling Limit. <i>Letters in Mathematical Physics</i> , 2016, 106, 719-729.	1.2	6
129	High performance computing for spherical conformal and Riemann mappings. <i>Geometry Imaging and Computing</i> , 2014, 1, 223-258.	0.8	6
130	Chapter VIII The Equivariant Loop Theorem for Three-Dimensional Manifolds and a Review of the Existence Theorems for Minimal Surfaces. <i>Pure and Applied Mathematics</i> , 1984, , 153-163.	0.0	5
131	Surface parameterization using Riemann surface structure. , 2005, , .		5
132	Numerical conformal mapping of multiply connected domains to regions with circular boundaries. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 2940-2947.	2.0	5
133	Quantum Tunneling on Graphs. <i>Communications in Mathematical Physics</i> , 2012, 311, 113-132.	2.3	5
134	Projected Gradient Method Combined with Homotopy Techniques for Volume-Measure-Preserving Optimal Mass Transportation Problems. <i>Journal of Scientific Computing</i> , 2021, 88, 1.	2.4	5
135	On complete constant scalar curvature Kähler metrics with Poincaré-Yau asymptotic property. <i>Communications in Analysis and Geometry</i> , 2016, 24, 521-557.	0.4	5
136	A strong Harnack inequality for graphs. <i>Communications in Analysis and Geometry</i> , 2017, 25, 557-588.	0.4	5
137	The geometry on smooth toroidal compactifications of Siegel varieties. <i>American Journal of Mathematics</i> , 2014, 136, 859-941.	1.1	4
138	Complete cscK Metrics on the Local Models of the Conifold Transition. <i>Communications in Mathematical Physics</i> , 2015, 335, 1215-1233.	2.3	4
139	Heterotic String Compactification and New Vector Bundles. <i>Communications in Mathematical Physics</i> , 2016, 345, 457-475.	2.3	4
140	Semicontinuity of $4d$ $N = 2$ $\mathcal{N} = 2$ spectrum under renormalization group flow. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	4
141	Geometric Inequalities for Quasi-Local Masses. <i>Communications in Mathematical Physics</i> , 2020, 378, 467-505.	2.3	4
142	Chain integral solutions to tautological systems. <i>Mathematical Research Letters</i> , 2016, 23, 1721-1736.	0.5	4
143	Evaluating quasi-local angular momentum and center-of-mass at null infinity. <i>Advances in Theoretical and Mathematical Physics</i> , 2020, 24, 1423-1473.	0.6	4
144	A New Approach to Sparse Matrix Eigenvalues. , 0, , .		3

#	ARTICLE	IF	CITATIONS
145	Some recent progress in classical general relativity. <i>Journal of Mathematical Physics</i> , 2000, 41, 3943-3963.	1.1	3
146	Symplectic cohomologies on phase space. <i>Journal of Mathematical Physics</i> , 2012, 53, 095217.	1.1	3
147	Optimal mass transport for geometric modeling based on variational principles in convex geometry. <i>Engineering With Computers</i> , 2014, 30, 475-486.	5.9	3
148	Extremal Bundles on Calabi-Yau Threefolds. <i>Communications in Mathematical Physics</i> , 2015, 336, 1167-1200.	2.3	3
149	Seiberg-Witten Differential via Primitive Forms. <i>Communications in Mathematical Physics</i> , 2019, 367, 193-214.	2.3	3
150	Stable surfaces and free boundary marginally outer trapped surfaces. <i>Calculus of Variations and Partial Differential Equations</i> , 2021, 60, 1.	1.7	3
151	Hyperbolic Harmonic Brain Surface Registration with Curvature-Based Landmark Matching. <i>Lecture Notes in Computer Science</i> , 2013, 23, 159-170.	1.3	3
152	Conserved quantities on asymptotically hyperbolic initial data sets. <i>Advances in Theoretical and Mathematical Physics</i> , 2016, 20, 1337-1375.	0.6	3
153	Quasi-local energy with respect to deSitter/anti-deSitter reference. <i>Communications in Analysis and Geometry</i> , 2020, 28, 1489-1531.	0.4	3
154	K3 surfaces from configurations of six lines in \mathbb{P}^2 and mirror symmetry I. <i>Communications in Number Theory and Physics</i> , 2020, 14, 739-783.	1.0	3
155	Nodal domain and eigenvalue multiplicity of graphs. <i>Electronic Journal of Combinatorics</i> , 2012, 3, 609-622.	0.1	3
156	Quasi-local mass in general relativity. <i>Journal of Differential Geometry</i> , 2010, 15, 421-434.	1.0	3
157	Convergent Conformal Energy Minimization for the Computation of Disk Parameterizations. <i>SIAM Journal on Imaging Sciences</i> , 2021, 14, 1790-1815.	2.3	3
158	A novel 2-phase residual U-net algorithm combined with optimal mass transportation for 3D brain tumor detection and segmentation. <i>Scientific Reports</i> , 2022, 12, 6452.	3.4	3
159	Segmentation and Tracking of 3D Neuron Microscopy Images using a PDE Based Method and Connected Component Labeling algorithm. , 2006, , .		2
160	The Rest Mass of an Asymptotically Anti-de Sitter Spacetime. <i>Annales Henri Poincare</i> , 2017, 18, 1493-1518.	1.8	2
161	Nonexistence for complete Kähler-Einstein metrics on some noncompact manifolds. <i>Mathematische Annalen</i> , 2017, 369, 1271-1282.	1.5	2
162	K3 surfaces from configurations of six lines in \mathbb{P}^2 and mirror symmetry II - $\langle i \rangle$ -3-functions. <i>International Mathematics Research Notices</i> , 2021, 2021, 13231-13281.	1.0	2

#	ARTICLE	IF	CITATIONS
163	Heat kernels on forms defined on a subgraph of a complete graph. <i>Mathematische Annalen</i> , 2021, 380, 1891.	1.5	2
164	Quasi-local mass near the singularity, the event horizon and the null infinity of black hole spacetimes. <i>Advances in Theoretical and Mathematical Physics</i> , 2021, 25, 101-128.	0.6	2
165	Weilâ€“Peterson geometry on the space of Bridgeland stability conditions. <i>Communications in Analysis and Geometry</i> , 2021, 29, 681-706.	0.4	2
166	Gravitational waves and their memory in general relativity. <i>Journal of Differential Geometry</i> , 2015, 20, 75-97.	1.0	2
167	Real time algorithm for nonlinear filtering problem. , 0, , .		2
168	Existence and Uniqueness of Solutions for Duncan-Mortensen-Zakai Equations. , 0, , .		1
169	Brain surface conformal parameterization with the slit mapping. , 2008, , .		1
170	Real time solution of Duncan-Mortensen-Zakai equation without memory. , 2008, , .		1
171	Trees and tensors on Kähler manifolds. <i>Annals of Global Analysis and Geometry</i> , 2013, 44, 151-168.	0.6	1
172	From Riemann and Kodaira to Modern Developments on Complex Manifolds. <i>Japanese Journal of Mathematics</i> , 2016, 11, 265-303.	2.2	1
173	Quasi-local energy in presence of gravitational radiation. <i>International Journal of Modern Physics D</i> , 2016, 25, 1645001.	2.1	1
174	Quasi-local mass at axially symmetric null infinity. <i>International Journal of Modern Physics D</i> , 2019, 28, 1930013.	2.1	1
175	The Minkowski Formula and the Quasi-Local Mass. <i>Annales Henri Poincare</i> , 2019, 20, 889-904.	1.8	1
176	On deformations of Fano manifolds. <i>Mathematische Annalen</i> , 0, , 1.	1.5	1
177	Nonexistence of time-periodic solutions of the Dirac equation in an axisymmetric black hole geometry. , 2000, 53, 902.		1
178	On topological approach to local theory of surfaces in Calabiâ€“Yau threefolds. <i>Advances in Theoretical and Mathematical Physics</i> , 2017, 21, 1679-1728.	0.6	1
179	Geometry of singular space. <i>Communications in Analysis and Geometry</i> , 2012, 20, 1097-1134.	0.4	1
180	Shiing-Shen Chern: A Great Geometer of 20th Century. <i>Notices of the International Congress of Chinese Mathematicians</i> , 2020, 8, 1-16.	0.0	1

#	ARTICLE	IF	CITATIONS
181	Period integrals and tautological systems. <i>Journal of Differential Geometry</i> , 2017, 22, 275-289.	1.0	1
182	Existence of canonical metrics in non-Kähler geometry. <i>Notices of the International Congress of Chinese Mathematicians</i> , 2021, 9, 1-10.	0.0	1
183	Polynomial calculations in Doppler tracking. <i>Communications in Information and Systems</i> , 2012, 12, 157-184.	0.5	1
184	Simplicial Ricci flow: an example of a neck pinch singularity in 3D. <i>Geometry Imaging and Computing</i> , 2014, 1, 303-331.	0.8	1
185	An efficient algorithm of Yau-Yau method for solving nonlinear filtering problems. <i>Communications in Information and Systems</i> , 2014, 14, 111-134.	0.5	1
186	An efficient numerical method for solving high-dimensional nonlinear filtering problems. <i>Communications in Information and Systems</i> , 2014, 14, 243-262.	0.5	1
187	A realization of Thurston's geometrization: discrete Ricci flow with surgery. <i>Annals of Mathematical Sciences and Applications</i> , 2018, 3, 31-45.	0.4	1
188	Mirror of Atiyah flop in symplectic geometry and stability conditions. <i>Advances in Theoretical and Mathematical Physics</i> , 2018, 22, 1149-1207.	0.6	1
189	Discrete Morse theory on digraphs. <i>Pure and Applied Mathematics Quarterly</i> , 2021, 17, 1711-1737.	0.4	1
190	On Calabi-Yau fractional complete intersections. <i>Pure and Applied Mathematics Quarterly</i> , 2022, 18, 317-342.	0.4	1
191	Aspects of quasilocal energy for gravity coupled to gauge fields. <i>Physical Review D</i> , 2022, 105, .	4.7	1
192	Existence of solutions to time dependent parabolic equations with unbounded coefficients: application to Duncan-Mortensen-Zakai equations. , 2000, , .		0
193	GEOMETRY MOTIVATED BY PHYSICS. , 2003, , .		0
194	Spacetime and the Geometry behind it. <i>Milan Journal of Mathematics</i> , 2006, 74, 339-356.	1.1	0
195	Canonical metrics on complex manifold. <i>Science in China Series A: Mathematics</i> , 2008, 51, 503-508.	0.5	0
196	Quasi-Local Energy in Presence of Gravitational Radiation. , 2017, , .		0
197	Period integrals of vector bundle sections and tautological systems. <i>Mathematical Research Letters</i> , 2021, 28, 415-434.	0.5	0
198	Computational Conformal Geometric Methods for Vision. , 2021, , 1-52.		0

#	ARTICLE	IF	CITATIONS
199	A survey of geometric structure in geometric analysis. Journal of Differential Geometry, 2011, 16, 325-348.	1.0	0
200	Topics on geometric analysis. Journal of Differential Geometry, 2012, 17, 459-473.	1.0	0
201	My Appreciation of Geometry. Notices of the International Congress of Chinese Mathematicians, 2013, 1, 20-35.	0.0	0
202	President's Speech to the 2013 International Congress of Chinese Mathematicians. Notices of the International Congress of Chinese Mathematicians, 2013, 1, 1-2.	0.0	0
203	Mathematics, Physics, and Calabi-Yau Manifolds. Notices of the International Congress of Chinese Mathematicians, 2013, 1, 36-41.	0.0	0
204	On the Willmore Conjecture for Surfaces. Notices of the International Congress of Chinese Mathematicians, 2013, 1, 14-17.	0.0	0
205	Comparison of Chinese and Japanese Developments in Mathematics during the Late 19th and Early 20th Centuries. Notices of the International Congress of Chinese Mathematicians, 2013, 1, 68-76.	0.0	0
206	Structure of Manifolds with Positive Curvature Based on Geometric Analysis. Notices of the International Congress of Chinese Mathematicians, 2013, 1, 24-28.	0.0	0
207	A novel efficient homotopy continuation method in tracking. Communications in Information and Systems, 2014, 14, 57-78.	0.5	0
208	Raoul Bott at Harvard. Notices of the International Congress of Chinese Mathematicians, 2014, 2, 87-92.	0.0	0
209	Mathematics: Its content, methods, and meaning. Notices of the International Congress of Chinese Mathematicians, 2014, 2, 1-5.	0.0	0
210	Goodness of canonical metrics on the moduli space of Riemann surfaces. Pure and Applied Mathematics Quarterly, 2014, 10, 223-243.	0.4	0
211	The Total Mass and the Topology of an Asymptotically Flat Space-Time. , 1980, , 255-259.		0
212	A Brief History of Kähler Geometry. Notices of the International Congress of Chinese Mathematicians, 2015, 3, 1-19.	0.0	0
213	The Center of Mathematical Sciences and Applications at Harvard University. Notices of the International Congress of Chinese Mathematicians, 2015, 3, 1-3.	0.0	0
214	Inauguration of the Shing-Tung Yau Center at Tsinghua University. Notices of the International Congress of Chinese Mathematicians, 2015, 3, 86-88.	0.0	0
215	On cohomology theory of (di)graphs. Homology, Homotopy and Applications, 2015, 17, 383-398.	0.5	0
216	3D Technology and Its Impact on the Future of Technology. Notices of the International Congress of Chinese Mathematicians, 2015, 3, 15-34.	0.0	0

#	ARTICLE	IF	CITATIONS
217	Charter of the International Consortium of Chinese Mathematicians. Notices of the International Congress of Chinese Mathematicians, 2016, 4, 77-83.	0.0	0
218	Geometry of space, physics and analysis. Notices of the International Congress of Chinese Mathematicians, 2016, 4, 1-8.	0.0	0
219	Strong embeddings and S^2 -isomorphism. Notices of the International Congress of Chinese Mathematicians, 2016, 4, 5-13.	0.0	0
220	Geometry and Physics. Notices of the International Congress of Chinese Mathematicians, 2017, 5, 1-7.	0.0	0
221	From Riemann and Kodaira to Modern Developments on Complex Manifolds. Notices of the International Congress of Chinese Mathematicians, 2017, 5, 1-21.	0.0	0
222	Differential zeros of period integrals and generalized hypergeometric functions. Communications in Number Theory and Physics, 2018, 12, 609-655.	1.0	0
223	Quasi-local mass at null infinity in Bondi-Sachs coordinates. Pure and Applied Mathematics Quarterly, 2019, 15, 875-895.	0.4	0
224	Hodge bundles on smooth compactifications of Siegel varieties and applications. Notices of the International Congress of Chinese Mathematicians, 2019, 7, 1-18.	0.0	0
225	Quasi-local mass at axially symmetric null infinity. , 2022, , .		0