Shing-Tung Yau

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10834404/publications.pdf

Version: 2024-02-01

225 papers	11,533 citations	61857 43 h-index	30010 103 g-index
230 all docs	230 docs citations	230 times ranked	2752 citing authors

#	Article	IF	Citations
1	On Calabiâ€“Yau fractional complete intersections. Pure and Applied Mathematics Quarterly, 2022, 18, 317-342.	0.2	1
2	A novel 2-phase residual U-net algorithm combined with optimal mass transportation for 3D brain tumor detection and segmentation. Scientific Reports, 2022, 12, 6452.	1.6	3
3	Aspects of quasilocal energy for gravity coupled to gauge fields. Physical Review D, 2022, 105, .	1.6	1
4	Quasi-local mass at axially symmetric null infinity. , 2022, , .		0
5	K3 surfaces from configurations of six lines in â„™2 and mirror symmetry IIâ€”Î»K3-functions. International Mathematics Research Notices, 2021, 2021, 13231-13281.	0.5	2
6	The dynamical model for COVID-19 with asymptotic analysis and numerical implementations. Applied Mathematical Modelling, 2021, 89, 1965-1982.	2.2	15
7	Period integrals of vector bundle sections and tautological systems. Mathematical Research Letters, 2021, 28, 415-434.	0.2	0
8	Moment Maps, Nonlinear PDE and Stability in Mirror Symmetry, I: Geodesics. Annals of PDE, 2021, 7, 1.	0.8	12
9	Evolution of Angular Momentum and Center of Mass at Null Infinity. Communications in Mathematical Physics, 2021, 386, 551-588.	1.0	11
10	Heat kernels on forms defined on a subgraph of a complete graph. Mathematische Annalen, 2021, 380, 1891.	0.7	2
11	Projected Gradient Method Combined with Homotopy Techniques for Volume-Measure-Preserving Optimal Mass Transportation Problems. Journal of Scientific Computing, 2021, 88, 1.	1.1	5
12	3D brain tumor segmentation using a two-stage optimal mass transport algorithm. Scientific Reports, 2021, 11, 14686.	1.6	8
13	Stable surfaces and free boundary marginally outer trapped surfaces. Calculus of Variations and Partial Differential Equations, 2021, 60, 1.	0.9	3
14	Computational Conformal Geometric Methods for Vision. , 2021, , 1-52.		0
15	Quasi-local mass near the singularity, the event horizon and the null infinity of black hole spacetimes. Advances in Theoretical and Mathematical Physics, 2021, 25, 101-128.	0.4	2
16	Weilâ€“Petersson geometry on the space of Bridgeland stability conditions. Communications in Analysis and Geometry, 2021, 29, 681-706.	0.2	2
17	Existence of canonical metrics in non-KÃhler geometry. Notices of the International Congress of Chinese Mathematicians, 2021, 9, 1-10.	0.0	1
18	Convergent Conformal Energy Minimization for the Computation of Disk Parameterizations. SIAM Journal on Imaging Sciences, 2021, 14, 1790-1815.	1.3	3

#	Article	IF	Citations
19	Discrete Morse theory on digraphs. Pure and Applied Mathematics Quarterly, 2021, 17, 1711-1737.	0.2	1
20	Supertranslation invariance of angular momentum. Advances in Theoretical and Mathematical Physics, 2021, 25, 777-789.	0.4	15
21	Path Complexes and their Homologies. Journal of Mathematical Sciences, 2020, 248, 564-599.	0.1	22
22	Existence of Solutions to Mean Field Equations on Graphs. Communications in Mathematical Physics, 2020, 377, 613-621.	1.0	17
23	Geometric Inequalities for Quasi-Local Masses. Communications in Mathematical Physics, 2020, 378, 467-505.	1.0	4
24	Quasi-local energy with respect to deÂSitter/anti-deÂSitter reference. Communications in Analysis and Geometry, 2020, 28, 1489-1531.	0.2	3
25	$(1,1)$ forms with specified Lagrangian phase: <i>aÂpriori</i> estimates and algebraic obstructions. Cambridge Journal of Mathematics, 2020, 8, 407-452.	0.5	25
26	K3 surfaces from configurations of six lines in $mathbb{P}^2$ and mirror symmetry I. Communications in Number Theory and Physics, 2020, 14, 739-783.	0.3	3
27	Shiing-Shen Chern: A Great Geometer of 20th Century. Notices of the International Congress of Chinese Mathematicians, 2020, 8, 1-16.	0.0	1
28	Evaluating quasi-local angular momentum and center-of-mass at null infinity. Advances in Theoretical and Mathematical Physics, 2020, 24, 1423-1473.	0.4	4
29	Volume doubling, PoincarÃ© inequality and Gaussian heat kernel estimate for non-negatively curved graphs. Journal Fur Die Reine Und Angewandte Mathematik, 2019, 2019, 89-130.	0.4	24
30	Investigating the role of eye movements and physiological signals in search satisfaction prediction using geometric analysis. Journal of the Association for Information Science and Technology, 2019, 70, 981-999.	1.5	10
31	A Novel Algorithm for Volume-Preserving Parameterizations of 3-Manifolds. SIAM Journal on Imaging Sciences, 2019, 12, 1071-1098.	1.3	16
32	Quasi-local mass at axially symmetric null infinity. International Journal of Modern Physics D, 2019, 28, 1930013.	0.9	1
33	Invariant metrics on negatively pinched complete KÃhler manifolds. Journal of the American Mathematical Society, 2019, 33, 103-133.	1.9	11
34	Seibergâ€“Witten Differential via Primitive Forms. Communications in Mathematical Physics, 2019, 367, 193-214.	1.0	3
35	The Minkowski Formula and the Quasi-Local Mass. Annales Henri Poincare, 2019, 20, 889-904.	0.8	1
36	A Novel Stretch Energy Minimization Algorithm for Equiareal Parameterizations. Journal of Scientific Computing, 2019, 78, 1353-1386.	1.1	19

#	Article	IF	Citations
37	Poisson metrics on flat vector bundles over non-compact curves. Communications in Analysis and Geometry, 2019, 27, 529-597.	0.2	7
38	Quasi-local mass at null infinity in Bondiâ€“Sachs coordinates. Pure and Applied Mathematics Quarterly, 2019, 15, 875-895.	0.2	0
39	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
40	Positive scalar curvature and minimal hypersurface singularities. Journal of Differential Geometry, 2019, 24, 441-480.	1.0	20
41	Calabiâ€“Yau Volumes and Reflexive Polytopes. Communications in Mathematical Physics, 2018, 361, 155-204.	1.0	15
42	Evaluating Small Sphere Limit of the Wangâ€“Yau Quasi-Local Energy. Communications in Mathematical Physics, 2018, 357, 731-774.	1.0	10
43	D-type fiber-base duality. Journal of High Energy Physics, 2018, 2018, 1.	1.6	14
44	Path homology theory of multigraphs and quivers. Forum Mathematicum, 2018, 30, 1319-1337.	0.3	18
45	ADE string chains and mirror symmetry. Journal of High Energy Physics, 2018, 2018, 1.	1.6	13
46	Quasi-local energy with respect to a static spacetime. Advances in Theoretical and Mathematical Physics, 2018, 22, 1-23.	0.4	10
47	On the path homology theory of digraphs and Eilenbergâ€“Steenrod axioms. Homology, Homotopy and Applications, 2018, 20, 179-205.	0.2	28
48	A realization of Thurstonâ€™s geometrization: discrete Ricci flow with surgery. Annals of Mathematical Sciences and Applications, 2018, 3, 31-45.	0.2	1
49	Differential zeros of period integrals and generalized hypergeometric functions. Communications in Number Theory and Physics, 2018, 12, 609-655.	0.3	0
50	Mirror of Atiyah flop in symplectic geometry and stability conditions. Advances in Theoretical and Mathematical Physics, 2018, 22, 1149-1207.	0.4	1
51	Hyperbolic Harmonic Mapping for Surface Registration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 965-980.	9.7	14
52	The Rest Mass of an Asymptotically Anti-de Sitter Spacetime. Annales Henri Poincare, 2017, 18, 1493-1518.	0.8	2
53	A special Lagrangian type equation for holomorphic line bundles. Mathematische Annalen, 2017, 369, 869-898.	0.7	39
54	Sharp Daviesâ€“Gaffneyâ€“Grigorâ€™yan Lemma on graphs. Mathematische Annalen, 2017, 368, 1429-1437.	0.7	16

#	Article	IF	Citations
55	Quasi-Local Energy in Presence of Gravitational Radiation. , 2017, , .		0
56	Pretty good quantum state transfer in symmetric spin networks via magnetic field. Quantum Information Processing, 2017, 16, 1.	1.0	19
57	An Efficient Energy Minimization for Conformal Parameterizations. Journal of Scientific Computing, 2017, 73, 203-227.	1.1	25
58	Nonexistence for complete KÃhlerâ€“Einstein metrics on some noncompact manifolds. Mathematische Annalen, 2017, 369, 1271-1282.	0.7	2
59	Three dimensional canonical singularity and five dimensional N $$ mathcal{N} $$ = 1 SCFT. Journal of High Energy Physics, 2017, 2017, 1.	1.6	52
60	Curvatures of moduli space of curves and applications. Asian Journal of Mathematics, 2017, 21, 841-854.	0.3	8
61	4D $mathcal{N} = 2$ SCFT and singularity theory. Part II: complete intersection. Advances in Theoretical and Mathematical Physics, 2017, 21, 121-145.	0.4	17
62	On topological approach to local theory of surfaces in Calabiâ€“Yau threefolds. Advances in Theoretical and Mathematical Physics, 2017, 21, 1679-1728.	0.4	1
63	A strong Harnack inequality for graphs. Communications in Analysis and Geometry, 2017, 25, 557-588.	0.2	5
64	Homologies of digraphs and KÃ¼nneth formulas. Communications in Analysis and Geometry, 2017, 25, 969-1018.	0.2	22
65	Calabi-Yau modular forms in limit: Elliptic fibrations. Communications in Number Theory and Physics, 2017, 11, 879-912.	0.3	8
66	Period integrals and tautological systems. Journal of Differential Geometry, 2017, 22, 275-289.	1.0	1
67	Geometry and Physics. Notices of the International Congress of Chinese Mathematicians, 2017, 5, 1-7.	0.0	0
68	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
69	From Riemann and Kodaira to Modern Developments on Complex Manifolds. Japanese Journal of Mathematics, 2016, 11, 265-303.	0.8	1
70	Quasi-local energy in presence of gravitational radiation. International Journal of Modern Physics D, 2016, 25, 1645001.	0.9	1
71	Heterotic String Compactification and New Vector Bundles. Communications in Mathematical Physics, 2016, 345, 457-475.	1.0	4
72	Airy Equation for the Topological String Partition Function in a Scaling Limit. Letters in Mathematical Physics, 2016, 106, 719-729.	0.5	6

#	Article	IF	Citations
73	Semicontinuity of 4d N = 2 $$ mathcal{N}=2 $$ spectrum under renormalization group flow. Journal of High Energy Physics, 2016, 2016, 1.	1.6	4
74	Gaussâ€“Manin Connection in Disguise: Calabiâ€“Yau Threefolds. Communications in Mathematical Physics, 2016, 344, 889-914.	1.0	8
75	Negative holomorphic curvature and positive canonical bundle. Inventiones Mathematicae, 2016, 204, 595-604.	1.3	48
76	On the Validity of the Definition of Angular Momentum in General Relativity. Annales Henri Poincare, 2016, 17, 253-270.	0.8	9
77	On a cohomology of digraphs and Hochschild cohomology. Journal of Homotopy and Related Structures, 2016, 11, 209-230.	0.2	16
78	Variational principles for Minkowski type problems, discrete optimal transport, and discrete Mongeâ€“AmpÃ¨re equations. Asian Journal of Mathematics, 2016, 20, 383-398.	0.3	58
79	Quasilocal angular momentum and center of mass in general relativity. Advances in Theoretical and Mathematical Physics, 2016, 20, 671-682.	0.4	10
80	Singularities and gauge theory phases, II. Advances in Theoretical and Mathematical Physics, 2016, 20, 683-749.	0.4	16
81	Conserved quantities on asymptotically hyperbolic initial data sets. Advances in Theoretical and Mathematical Physics, 2016, 20, 1337-1375.	0.4	3
82	On complete constant scalar curvature KÃhler metrics with PoincarÃ©â€“Mokâ€“Yau asymptotic property. Communications in Analysis and Geometry, 2016, 24, 521-557.	0.2	5
83	A remark on our paper â€œNegative holomorphic curvature and positive canonical bundleâ€. Communications in Analysis and Geometry, 2016, 24, 901-912.	0.2	26
84	Chain integral solutions to tautological systems. Mathematical Research Letters, 2016, 23, 1721-1736.	0.2	4
85	Charter of the International Consortium of Chinese Mathematicians. Notices of the International Congress of Chinese Mathematicians, 2016, 4, 77-83.	0.0	0
86	Geometry of space, physics and analysis. Notices of the International Congress of Chinese Mathematicians, 2016, 4, 1-8.	0.0	0
87	Strong embeddings and 2-isomorphism. Notices of the International Congress of Chinese Mathematicians, 2016, 4, 5-13.	0.0	0
88	Invariant Solutions to the Strominger System on Complex Lie Groups and Their Quotients. Communications in Mathematical Physics, 2015, 338, 1183-1195.	1.0	28
89	Complete cscK Metrics on the Local Models of the Conifold Transition. Communications in Mathematical Physics, 2015, 335, 1215-1233.	1.0	4
90	Extremal Bundles on Calabiâ€“Yau Threefolds. Communications in Mathematical Physics, 2015, 336, 1167-1200.	1.0	3

#	Article	IF	Citations
91	Conserved Quantities in General Relativity: From the Quasi-Local Level to Spatial Infinity. Communications in Mathematical Physics, 2015, 338, 31-80.	1.0	17
92	Cohomology of digraphs and (undirected) graphs. Asian Journal of Mathematics, 2015, 19, 887-932.	0.3	39
93	Daviesâ€“Gaffneyâ€“Grigorâ€™yan Lemma on graphs. Communications in Analysis and Geometry, 2015, 23, 1031-1068.	0.2	11
94	D_5 elliptic fibrations: non-Kodaira fibers and new orientifold limits of F-theory. Communications in Number Theory and Physics, 2015, 9, 583-642.	0.3	10
95	Gravitational waves and their memory in general relativity. Journal of Differential Geometry, 2015, 20, 75-97.	1.0	2
96	A Brief History of KÃhler Geometry. Notices of the International Congress of Chinese Mathematicians, 2015, 3, 1-19.	0.0	0
97	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
98	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
99	On cohomology theory of (di)graphs. Homology, Homotopy and Applications, 2015, 17, 383-398.	0.2	0
100	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
101	The geometry on smooth toroidal compactifications of Siegel varieties. American Journal of Mathematics, 2014, 136, 859-941.	0.5	4
102	Conformal parameterization for multiply connected domains: combining finite elements and complex analysis. Engineering With Computers, 2014, 30, 441-455.	3.5	6
103	Generalized Cohomologies and Supersymmetry. Communications in Mathematical Physics, 2014, 326, 875-885.	1.0	19
104	Optimal mass transport for geometric modeling based on variational principles in convex geometry. Engineering With Computers, 2014, 30, 475-486.	3.5	3
105	Simplicial Ricci Flow. Communications in Mathematical Physics, 2014, 329, 579-608.	1.0	12
106	Minimizing Properties of Critical Points of Quasi-Local Energy. Communications in Mathematical Physics, 2014, 329, 919-935.	1.0	12
107	Teichmuller Mapping (T-Map) and Its Applications to Landmark Matching Registration. SIAM Journal on Imaging Sciences, 2014, 7, 391-426.	1.3	64
108	A Novel Symmetric Skew-Hamiltonian Isotropic Lanczos Algorithm for Spectral Conformal Parameterizations. Journal of Scientific Computing, 2014, 61, 558-583.	1.1	8

#	Article	IF	Citations
109	Special polynomial rings, quasi modular forms and duality of topological strings. Advances in Theoretical and Mathematical Physics, 2014, 18, 401-467.	0.4	33
110	High performance computing for spherical conformal and Riemann mappings. Geometry Imaging and Computing, 2014, 1, 223-258.	0.8	6
111	Graphs associated with simplicial complexes. Homology, Homotopy and Applications, 2014, 16, 295-311.	0.2	27
112	An explicit formula of hitting times for random walks on graphs. Pure and Applied Mathematics Quarterly, 2014, 10, 567-581.	0.2	10
113	Homotopy Theory for Digraphs. Pure and Applied Mathematics Quarterly, 2014, 10, 619-674.	0.2	41
114	A novel efficient homotopy continuation method in tracking. Communications in Information and Systems, 2014, 14, 57-78.	0.3	0
115	Simplicial Ricci flow: an example of a neck pinch singularity in 3D. Geometry Imaging and Computing, 2014, 1, 303-331.	0.8	1
116	Raoul Bott at Harvard. Notices of the International Congress of Chinese Mathematicians, 2014, 2, 87-92.	0.0	0
117	Mathematics: Its content, methods, and meaning. Notices of the International Congress of Chinese Mathematicians, 2014, 2, 1-5.	0.0	0
118	Goodness of canonical metrics on the moduli space of Riemann surfaces. Pure and Applied Mathematics Quarterly, 2014, 10, 223-243.	0.2	0
119	An efficient algorithm of Yau-Yau method for solving nonlinear filtering problems. Communications in Information and Systems, 2014, 14, 111-134.	0.3	1
120	An efficient numerical method for solving high-dimensional nonlinear filtering problems. Communications in Information and Systems, 2014, 14, 243-262.	0.3	1
121	Trees and tensors on KÃhler manifolds. Annals of Global Analysis and Geometry, 2013, 44, 151-168.	0.3	1
122	TeichmÃ¼ller Shape Descriptor and Its Application to Alzheimerâ€™s Disease Study. International Journal of Computer Vision, 2013, 105, 155-170.	10.9	15
123	Period integrals of CY and general type complete intersections. Inventiones Mathematicae, 2013, 191, 35-89.	1.3	8
124	Hyperbolic Harmonic Mapping for Constrained Brain Surface Registration. , 2013, , .		19
125	Hyperbolic Harmonic Brain Surface Registration with Curvature-Based Landmark Matching. Lecture Notes in Computer Science, 2013, 23, 159-170.	1.0	3
126	Small resolutions of SU(5)-models in F-theory. Advances in Theoretical and Mathematical Physics, 2013, 17, 1195-1253.	0.4	53

#	Article	IF	Citations
127	My Appreciation of Geometry. Notices of the International Congress of Chinese Mathematicians, 2013, 1, 20-35.	0.0	0
128	Presidentâ€™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
129	Mathematics, Physics, and Calabi-Yau Manifolds. Notices of the International Congress of Chinese Mathematicians, 2013, 1, 36-41.	0.0	0
130	On the Willmore Conjecture for Surfaces. Notices of the International Congress of Chinese Mathematicians, 2013, 1, 14-17.	0.0	0
131	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
132	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
133	Symplectic cohomologies on phase space. Journal of Mathematical Physics, 2012, 53, 095217.	0.5	3
134	Numerical Computation of Surface Conformal Mappings. Computational Methods and Function Theory, 2012, 11, 747-787.	0.8	36
135	Computing quasiconformal maps using an auxiliary metric and discrete curvature flow. Numerische Mathematik, 2012, 121, 671-703.	0.9	44
136	Brain Surface Conformal Parameterization With the Ricci Flow. IEEE Transactions on Medical Imaging, 2012, 31, 251-264.	5.4	64
137	Quantum Tunneling on Graphs. Communications in Mathematical Physics, 2012, 311, 113-132.	1.0	5
138	Optimization of Surface Registrations Using Beltrami Holomorphic Flow. Journal of Scientific Computing, 2012, 50, 557-585.	1.1	61
139	Geometry of singular space. Communications in Analysis and Geometry, 2012, 20, 1097-1134.	0.2	1
140	Nodal domain and eigenvalue multiplicity of graphs. Electronic Journal of Combinatorics, 2012, 3, 609-622.	0.1	3
141	Polynomial calculations in Doppler tracking. Communications in Information and Systems, 2012, 12, 157-184.	0.3	1
142	Topics on geometric analysis. Journal of Differential Geometry, 2012, 17, 459-473.	1.0	0
143	Evaluating Quasilocal Energy and Solving Optimal Embedding Equation at Null Infinity. Communications in Mathematical Physics, 2011, 308, 845-863.	1.0	14
144	A survey of geometric structure in geometric analysis. Journal of Differential Geometry, 2011, 16, 325-348.	1.0	0

#	Article	IF	Citations
145	Limit of Quasilocal Mass at Spatial Infinity. Communications in Mathematical Physics, 2010, 296, 271-283.	1.0	12
146	Metrics on complex manifolds. Science China Mathematics, 2010, 53, 565-572.	0.8	6
147	Fundamentals of Computational Conformal Geometry. Mathematics in Computer Science, 2010, 4, 389-429.	0.2	16
148	Numerical conformal mapping of multiply connected domains to regions with circular boundaries. Journal of Computational and Applied Mathematics, 2010, 233, 2940-2947.	1.1	5
149	Compression of surface registrations using Beltrami coefficients. , 2010, , .		7
150	Shape-Based Diffeomorphic Registration on Hippocampal Surfaces Using Beltrami Holomorphic Flow. Lecture Notes in Computer Science, 2010, 13, 323-330.	1.0	24
151	Quasi-local mass in general relativity. Journal of Differential Geometry, 2010, 15, 421-434.	1.0	3
152	Quasilocal Mass in General Relativity. Physical Review Letters, 2009, 102, 021101.	2.9	92
153	Local Geometry of the G 2 Moduli Space. Communications in Mathematical Physics, 2009, 287, 459-488.	1.0	21
154	Isometric Embeddings into the Minkowski Space and New Quasi-Local Mass. Communications in Mathematical Physics, 2009, 288, 919-942.	1.0	84
155	Local Heterotic Torsional Models. Communications in Mathematical Physics, 2009, 289, 1151-1169.	1.0	50
156	Recent development on the geometry of the TeichmÃ¼ller and moduli spaces of Riemann surfaces. Journal of Differential Geometry, 2009, 14, 221-260.	1.0	7
157	TeichmÃ¼ller Shape Space Theory and Its Application to Brain Morphometry. Lecture Notes in Computer Science, 2009, 12, 133-140.	1.0	9
158	Sasakiâ€“Einstein Manifolds and Volume Minimisation. Communications in Mathematical Physics, 2008, 280, 611-673.	1.0	213
159	Canonical metrics on complex manifold. Science in China Series A: Mathematics, 2008, 51, 503-508.	0.5	0
160	Brain surface conformal parameterization with the slit mapping. , 2008, , .		1
161	Taming symplectic forms and the Calabi-Yau equation. Proceedings of the London Mathematical Society, 2008, 97, 401-424.	0.6	52
162	Real time solution of Duncan-Mortensen-Zakai equation without memory. , 2008, , .		1

#	Article	IF	Citations
163	Conformal Slit Mapping and Its Applications to Brain Surface Parameterization. Lecture Notes in Computer Science, 2008, 11, 585-593.	1.0	21
164	A survey of Calabi-Yau manifolds. Journal of Differential Geometry, 2008, 13, 277-318.	1.0	7
165	BRAIN SURFACE CONFORMAL PARAMETERIZATION WITH THE RICCI FLOW. , 2007, , .		9
166	Brain Surface Conformal Parameterization Using Riemann Surface Structure. IEEE Transactions on Medical Imaging, 2007, 26, 853-865.	5.4	82
167	Geometric accuracy analysis for discrete surface approximation. Computer Aided Geometric Design, 2007, 24, 323-338.	0.5	18
168	Obstructions to the Existence of Sasakiâ€“Einstein Metrics. Communications in Mathematical Physics, 2007, 273, 803-827.	1.0	93
169	Anomaly cancellation and smooth non-KÃhler solutions in heterotic string theory. Nuclear Physics B, 2006, 751, 108-128.	0.9	84
170	Spacetime and the Geometry behind it. Milan Journal of Mathematics, 2006, 74, 339-356.	0.7	0
171	The Geometric Dual of aâ€“Maximisation for Toric Sasakiâ€“Einstein Manifolds. Communications in Mathematical Physics, 2006, 268, 39-65.	1.0	214
172	Segmentation and Tracking of 3D Neuron Microscopy Images using a PDE Based Method and Connected Component Labeling algorithm. , 2006, , .		2
173	Brain Surface Conformal Parameterization with Algebraic Functions. Lecture Notes in Computer Science, 2006, 9, 946-954.	1.0	16
174	Positivity of quasi-local mass II. Journal of the American Mathematical Society, 2005, 19, 181-204.	1.9	40
175	Uniform texture synthesis and texture mapping using global parameterization. Visual Computer, 2005, 21, 801-810.	2.5	12
176	Complex geometry: Its brief history and its future. Science in China Series A: Mathematics, 2005, 48, 47-60.	0.5	6
177	Geometric aspects of the moduli space of riemann surfaces. Science in China Series A: Mathematics, 2005, 48, 97-122.	0.5	6
178	Surface parameterization using Riemann surface structure. , 2005, , .		5
179	Brain Surface Parameterization Using Riemann Surface Structure. Lecture Notes in Computer Science, 2005, 8, 657-665.	1.0	15
180	Genus Zero Surface Conformal Mapping and Its Application to Brain Surface Mapping. IEEE Transactions on Medical Imaging, 2004, 23, 949-958.	5.4	457

#	Article	IF	Citations
181	c = 2 Rational Toroidal Conformal Field Theories via the Gauss Product. Communications in Mathematical Physics, 2003, 241, 245-286.	1.0	14
182	Positivity of Quasilocal Mass. Physical Review Letters, 2003, 90, 231102.	2.9	105
183	GEOMETRY MOTIVATED BY PHYSICS. , 2003, , .		0
184	Computing conformal structures of surfaces. Communications in Information and Systems, 2002, 2, 121-146.	0.3	127
185	Existence of solutions to time dependent parabolic equations with unbounded coefficients: application to Duncan-Mortensen-Zakai equations. , 2000, , .		0
186	Nonexistence of timeâ€periodic solutions of the Dirac equation in an axisymmetric black hole geometry. Communications on Pure and Applied Mathematics, 2000, 53, 902-929.	1.2	47
187	Some recent progress in classical general relativity. Journal of Mathematical Physics, 2000, 41, 3943-3963.	0.5	3
188	Non-existence of time-periodic solutions of the Dirac equation in a Reissner-NordstrÃ¶m black hole background. Journal of Mathematical Physics, 2000, 41, 2173-2194.	0.5	59
189	Nonexistence of time-periodic solutions of the Dirac equation in an axisymmetric black hole geometry. , 2000, 53, 902.		1
190	THE COUPLING OF GRAVITY TO SPIN AND ELECTROMAGNETISM. Modern Physics Letters A, 1999, 14, 1053-1057.	0.5	6
191	Non-Existence of Black Hole SolutionsÂ¶for a Spherically Symmetric, Static Einstein-Dirac-Maxwell System. Communications in Mathematical Physics, 1999, 205, 249-262.	1.0	36
192	Some Properties of Matrix Harmonics on S 2. Communications in Mathematical Physics, 1998, 195, 67-77.	1.0	26
193	Definition of center of mass for isolated physical systems and unique foliations by stable spheres with constant mean curvature. Inventiones Mathematicae, 1996, 124, 281-311.	1.3	138
194	Gradient estimates, Harnack inequalities and estimates for heat kernels of the sum of squares of vector fields. Mathematische Zeitschrift, 1992, 211, 485-504.	0.4	22
195	Complete KÃhler manifolds with zero Ricci curvature. I. Journal of the American Mathematical Society, 1990, 3, 579-609.	1.9	104
196	The Structure of Manifolds with Positive Scalar Curvature. , 1987, , 235-242.		6
197	Complete affine hypersurfaces. Part I. The completeness of affine metrics. Communications on Pure and Applied Mathematics, 1986, 39, 839-866.	1.2	183
198	Chapter VIII The Equivariant Loop Theorem for Three-Dimensional Manifolds and a Review of the Existence Theorems for Minimal Surfaces. Pure and Applied Mathematics, 1984, , 153-163.	0.0	5

#	Article	IF	Citations
199	Homotopically trivial symmetries of haken manifolds are toral. Topology, 1983, 22, 179-189.	0.4	12
200	SURVEY ON PARTIAL DIFFERENTIAL EQUATIONS IN 3 DIFFERENTIAL GEOMETRY. , 1982, , 1-72.		23
201	Embedded Minimal Surfaces, Exotic Spheres, and Manifolds with Positive Ricci Curvature. Annals of Mathematics, 1982, 116, 621.	2.1	193
202	COMPLETE THREE DIMENSIONAL MANIFOLDS WITH POSITIVE RICCI CURVATURE AND SCALAR CURVATURE. , 1982, , 209-228.		54
203	A new conformal invariant and its applications to the Willmore conjecture and the first eigenvalue of compact surfaces. Inventiones Mathematicae, 1982, 69, 269-291.	1.3	371
204	The existence of embedded minimal surfaces and the problem of uniqueness. Mathematische Zeitschrift, 1982, 179, 151-168.	0.4	156
205	A lower bound for the heat kernel. Communications on Pure and Applied Mathematics, 1981, 34, 465-480.	1.2	154
206	Proof of the positive mass theorem. II. Communications in Mathematical Physics, 1981, 79, 231-260.	1.0	536
207	The energy and the linear momentum of space-times in general relativity. Communications in Mathematical Physics, 1981, 79, 47-51.	1.0	103
208	On the existence of a complete KÃhler metric on non-compact complex manifolds and the regularity of fefferman's equation. Communications on Pure and Applied Mathematics, 1980, 33, 507-544.	1.2	332
209	The Total Mass and the Topology of an Asymptotically Flat Space-Time. , 1980, , 255-259.		0
210	Proof of the Positive-Action Conjecture in Quantum Relativity. Physical Review Letters, 1979, 42, 547-548.	2.9	96
211	Positivity of the Total Mass of a General Space-Time. Physical Review Letters, 1979, 43, 1457-1459.	2.9	148
212	On the proof of the positive mass conjecture in general relativity. Communications in Mathematical Physics, 1979, 65, 45-76.	1.0	944
213	Existence of Incompressible Minimal Surfaces and the Topology of Three Dimensional Manifolds with Non-Negative Scalar Curvature. Annals of Mathematics, 1979, 110, 127.	2.1	422
214	On the ricci curvature of a compact kÃhler manifold and the complex monge-ampÃ©re equation, I. Communications on Pure and Applied Mathematics, 1978, 31, 339-411.	1.2	1,424
215	Complete Kahler Manifolds With Nonpositive Curvature of Faster Than Quadratic Decay. Annals of Mathematics, 1977, 105, 225.	2.1	63
216	On the regularity of the monge-ampÃ¨re equation det (âˆ‚2 u/âˆ‚xi âˆ‚xj) = f(x, u). Communications on Pure and Applied Mathematics, 1977, 30, 41-68.	1.2	216

#	Article	IF	Citations
217	Maximal Space-like Hypersurfaces in the Lorentz-Minkowski Spaces. Annals of Mathematics, 1976, 104, 407.	2.1	428
218	Title is missing!. Indiana University Mathematics Journal, 1976, 25, 659.	0.4	556
219	On the regularity of the solution of then-dimensional Minkowski problem. Communications on Pure and Applied Mathematics, 1976, 29, 495-516.	1.2	213
220	Harmonic functions on complete riemannian manifolds. Communications on Pure and Applied Mathematics, 1975, 28, 201-228.	1.2	858
221	A New Approach to Sparse Matrix Eigenvalues. , 0, , .		3
222	Volumetric harmonic brain mapping. , 0, , .		9
223	Existence and Uniqueness of Solutions for Duncan-Mortensen-Zakai Equations. , 0, , .		1
224	On deformations of Fano manifolds. Mathematische Annalen, 0, , 1.	0.7	1
225	Real time algorithm for nonlinear filtering problem. , 0, , .		2