

Shing-Tung Yau

List of Publications by Year in descending order

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Version: 2024-02-01

225
papers

11,533
citations

61984

43
h-index

30087

103
g-index

230
all docs

230
docs citations

230
times ranked

2752
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | On Calabi-Yau fractional complete intersections. <i>Pure and Applied Mathematics Quarterly</i> , 2022, 18, 317-342. | 0.4 | 1 |
| 2 | 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. | 3.3 | 3 |
| 3 | Aspects of quasilocal energy for gravity coupled to gauge fields. <i>Physical Review D</i> , 2022, 105, . | 4.7 | 1 |
| 4 | Quasi-local mass at axially symmetric null infinity. , 2022, , . | | 0 |
| 5 | 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 |
| 6 | The dynamical model for COVID-19 with asymptotic analysis and numerical implementations. <i>Applied Mathematical Modelling</i> , 2021, 89, 1965-1982. | 4.2 | 15 |
| 7 | Period integrals of vector bundle sections and tautological systems. <i>Mathematical Research Letters</i> , 2021, 28, 415-434. | 0.5 | 0 |
| 8 | Moment Maps, Nonlinear PDE and Stability in Mirror Symmetry, I: Geodesics. <i>Annals of PDE</i> , 2021, 7, 1. | 1.8 | 12 |
| 9 | Evolution of Angular Momentum and Center of Mass at Null Infinity. <i>Communications in Mathematical Physics</i> , 2021, 386, 551-588. | 2.2 | 11 |
| 10 | Heat kernels on forms defined on a subgraph of a complete graph. <i>Mathematische Annalen</i> , 2021, 380, 1891. | 1.4 | 2 |
| 11 | Projected Gradient Method Combined with Homotopy Techniques for Volume-Measure-Preserving Optimal Mass Transportation Problems. <i>Journal of Scientific Computing</i> , 2021, 88, 1. | 2.3 | 5 |
| 12 | 3D brain tumor segmentation using a two-stage optimal mass transport algorithm. <i>Scientific Reports</i> , 2021, 11, 14686. | 3.3 | 8 |
| 13 | Stable surfaces and free boundary marginally outer trapped surfaces. <i>Calculus of Variations and Partial Differential Equations</i> , 2021, 60, 1. | 1.7 | 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. <i>Advances in Theoretical and Mathematical Physics</i> , 2021, 25, 101-128. | 0.6 | 2 |
| 16 | Weil-Petersson geometry on the space of Bridgeland stability conditions. <i>Communications in Analysis and Geometry</i> , 2021, 29, 681-706. | 0.4 | 2 |
| 17 | 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 |
| 18 | Convergent Conformal Energy Minimization for the Computation of Disk Parameterizations. <i>SIAM Journal on Imaging Sciences</i> , 2021, 14, 1790-1815. | 2.2 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Discrete Morse theory on digraphs. Pure and Applied Mathematics Quarterly, 2021, 17, 1711-1737. | 0.4 | 1 |
| 20 | Supertranslation invariance of angular momentum. Advances in Theoretical and Mathematical Physics, 2021, 25, 777-789. | 0.6 | 15 |
| 21 | Path Complexes and their Homologies. Journal of Mathematical Sciences, 2020, 248, 564-599. | 0.4 | 22 |
| 22 | Existence of Solutions to Mean Field Equations on Graphs. Communications in Mathematical Physics, 2020, 377, 613-621. | 2.2 | 17 |
| 23 | Geometric Inequalities for Quasi-Local Masses. Communications in Mathematical Physics, 2020, 378, 467-505. | 2.2 | 4 |
| 24 | Quasi-local energy with respect to deSitter/anti-deSitter reference. Communications in Analysis and Geometry, 2020, 28, 1489-1531. | 0.4 | 3 |
| 25 | $(1,1)$ forms with specified Lagrangian phase: ϵ -a priori estimates and algebraic obstructions. Cambridge Journal of Mathematics, 2020, 8, 407-452. | 1.5 | 25 |
| 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. | 1.0 | 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. | 0.6 | 4 |
| 29 | 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 |
| 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. | 2.9 | 10 |
| 31 | A Novel Algorithm for Volume-Preserving Parameterizations of 3-Manifolds. SIAM Journal on Imaging Sciences, 2019, 12, 1071-1098. | 2.2 | 16 |
| 32 | Quasi-local mass at axially symmetric null infinity. International Journal of Modern Physics D, 2019, 28, 1930013. | 2.1 | 1 |
| 33 | Invariant metrics on negatively pinched complete Kähler manifolds. Journal of the American Mathematical Society, 2019, 33, 103-133. | 3.9 | 11 |
| 34 | Seiberg-Witten Differential via Primitive Forms. Communications in Mathematical Physics, 2019, 367, 193-214. | 2.2 | 3 |
| 35 | The Minkowski Formula and the Quasi-Local Mass. Annales Henri Poincare, 2019, 20, 889-904. | 1.7 | 1 |
| 36 | A Novel Stretch Energy Minimization Algorithm for Equiareal Parameterizations. Journal of Scientific Computing, 2019, 78, 1353-1386. | 2.3 | 19 |

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|----|---|------|-----------|
| 37 | Poisson metrics on flat vector bundles over non-compact curves. <i>Communications in Analysis and Geometry</i> , 2019, 27, 529-597. | 0.4 | 7 |
| 38 | Quasi-local mass at null infinity in Bondi-Sachs coordinates. <i>Pure and Applied Mathematics Quarterly</i> , 2019, 15, 875-895. | 0.4 | 0 |
| 39 | Hodge bundles on smooth compactifications of Siegel varieties and applications. <i>Notices of the International Congress of Chinese Mathematicians</i> , 2019, 7, 1-18. | 0.0 | 0 |
| 40 | Positive scalar curvature and minimal hypersurface singularities. <i>Journal of Differential Geometry</i> , 2019, 24, 441-480. | 1.0 | 20 |
| 41 | Calabi-Yau Volumes and Reflexive Polytopes. <i>Communications in Mathematical Physics</i> , 2018, 361, 155-204. | 2.2 | 15 |
| 42 | Evaluating Small Sphere Limit of the Wang-Yau Quasi-Local Energy. <i>Communications in Mathematical Physics</i> , 2018, 357, 731-774. | 2.2 | 10 |
| 43 | D-type fiber-base duality. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 14 |
| 44 | Path homology theory of multigraphs and quivers. <i>Forum Mathematicum</i> , 2018, 30, 1319-1337. | 0.7 | 18 |
| 45 | ADE string chains and mirror symmetry. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 4.7 | 13 |
| 46 | Quasi-local energy with respect to a static spacetime. <i>Advances in Theoretical and Mathematical Physics</i> , 2018, 22, 1-23. | 0.6 | 10 |
| 47 | On the path homology theory of digraphs and Eilenberg-Steenrod axioms. <i>Homology, Homotopy and Applications</i> , 2018, 20, 179-205. | 0.4 | 28 |
| 48 | 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 |
| 49 | Differential zeros of period integrals and generalized hypergeometric functions. <i>Communications in Number Theory and Physics</i> , 2018, 12, 609-655. | 1.0 | 0 |
| 50 | 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 |
| 51 | Hyperbolic Harmonic Mapping for Surface Registration. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2017, 39, 965-980. | 13.9 | 14 |
| 52 | The Rest Mass of an Asymptotically Anti-de Sitter Spacetime. <i>Annales Henri Poincare</i> , 2017, 18, 1493-1518. | 1.7 | 2 |
| 53 | A special Lagrangian type equation for holomorphic line bundles. <i>Mathematische Annalen</i> , 2017, 369, 869-898. | 1.4 | 39 |
| 54 | Sharp Davies-Gaffney-Grigoryan Lemma on graphs. <i>Mathematische Annalen</i> , 2017, 368, 1429-1437. | 1.4 | 16 |

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|----|---|-----|-----------|
| 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. | 2.2 | 19 |
| 57 | An Efficient Energy Minimization for Conformal Parameterizations. Journal of Scientific Computing, 2017, 73, 203-227. | 2.3 | 25 |
| 58 | Nonexistence for complete Kähler-Einstein metrics on some noncompact manifolds. Mathematische Annalen, 2017, 369, 1271-1282. | 1.4 | 2 |
| 59 | Three dimensional canonical singularity and five dimensional $N = 1$ SCFT. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 52 |
| 60 | Curvatures of moduli space of curves and applications. Asian Journal of Mathematics, 2017, 21, 841-854. | 0.3 | 8 |
| 61 | 4D $N = 2$ SCFT and singularity theory. Part II: complete intersection. Advances in Theoretical and Mathematical Physics, 2017, 21, 121-145. | 0.6 | 17 |
| 62 | On topological approach to local theory of surfaces in Calabi-Yau threefolds. Advances in Theoretical and Mathematical Physics, 2017, 21, 1679-1728. | 0.6 | 1 |
| 63 | A strong Harnack inequality for graphs. Communications in Analysis and Geometry, 2017, 25, 557-588. | 0.4 | 5 |
| 64 | Homologies of digraphs and Kinneth formulas. Communications in Analysis and Geometry, 2017, 25, 969-1018. | 0.4 | 22 |
| 65 | Calabi-Yau modular forms in limit: Elliptic fibrations. Communications in Number Theory and Physics, 2017, 11, 879-912. | 1.0 | 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. | 2.1 | 1 |
| 70 | Quasi-local energy in presence of gravitational radiation. International Journal of Modern Physics D, 2016, 25, 1645001. | 2.1 | 1 |
| 71 | Heterotic String Compactification and New Vector Bundles. Communications in Mathematical Physics, 2016, 345, 457-475. | 2.2 | 4 |
| 72 | Airy Equation for the Topological String Partition Function in a Scaling Limit. Letters in Mathematical Physics, 2016, 106, 719-729. | 1.1 | 6 |

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|----|---|-----|-----------|
| 73 | Semicontinuity of 4d $N = 2$ $\mathcal{N}=2$ spectrum under renormalization group flow. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 4 |
| 74 | Gauss–Manin Connection in Disguise: Calabi–Yau Threefolds. Communications in Mathematical Physics, 2016, 344, 889-914. | 2.2 | 8 |
| 75 | Negative holomorphic curvature and positive canonical bundle. Inventiones Mathematicae, 2016, 204, 595-604. | 2.5 | 48 |
| 76 | On the Validity of the Definition of Angular Momentum in General Relativity. Annales Henri Poincare, 2016, 17, 253-270. | 1.7 | 9 |
| 77 | On a cohomology of digraphs and Hochschild cohomology. Journal of Homotopy and Related Structures, 2016, 11, 209-230. | 0.7 | 16 |
| 78 | Variational principles for Minkowski type problems, discrete optimal transport, and discrete Monge–Ampère 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. | 0.6 | 10 |
| 80 | Singularities and gauge theory phases, II. Advances in Theoretical and Mathematical Physics, 2016, 20, 683-749. | 0.6 | 16 |
| 81 | Conserved quantities on asymptotically hyperbolic initial data sets. Advances in Theoretical and Mathematical Physics, 2016, 20, 1337-1375. | 0.6 | 3 |
| 82 | On complete constant scalar curvature Kähler metrics with Poincaré–Mok–Yau asymptotic property. Communications in Analysis and Geometry, 2016, 24, 521-557. | 0.4 | 5 |
| 83 | A remark on our paper “Negative holomorphic curvature and positive canonical bundle”, Communications in Analysis and Geometry, 2016, 24, 901-912. | 0.4 | 26 |
| 84 | Chain integral solutions to tautological systems. Mathematical Research Letters, 2016, 23, 1721-1736. | 0.5 | 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 S^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. | 2.2 | 28 |
| 89 | Complete cscK Metrics on the Local Models of the Conifold Transition. Communications in Mathematical Physics, 2015, 335, 1215-1233. | 2.2 | 4 |
| 90 | Extremal Bundles on Calabi–Yau Threefolds. Communications in Mathematical Physics, 2015, 336, 1167-1200. | 2.2 | 3 |

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|-----|--|-----|-----------|
| 91 | Conserved Quantities in General Relativity: From the Quasi-Local Level to Spatial Infinity. Communications in Mathematical Physics, 2015, 338, 31-80. | 2.2 | 17 |
| 92 | Cohomology of digraphs and (undirected) graphs. Asian Journal of Mathematics, 2015, 19, 887-932. | 0.3 | 39 |
| 93 | Davies's "Gaffney" Grigor'yan Lemma on graphs. Communications in Analysis and Geometry, 2015, 23, 1031-1068. | 0.4 | 11 |
| 94 | S^2 elliptic fibrations: non-Kodaira fibers and new orientifold limits of F-theory. Communications in Number Theory and Physics, 2015, 9, 583-642. | 1.0 | 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 Kähler 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. | 0.4 | 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. | 1.1 | 4 |
| 102 | Conformal parameterization for multiply connected domains: combining finite elements and complex analysis. Engineering With Computers, 2014, 30, 441-455. | 6.1 | 6 |
| 103 | Generalized Cohomologies and Supersymmetry. Communications in Mathematical Physics, 2014, 326, 875-885. | 2.2 | 19 |
| 104 | Optimal mass transport for geometric modeling based on variational principles in convex geometry. Engineering With Computers, 2014, 30, 475-486. | 6.1 | 3 |
| 105 | Simplicial Ricci Flow. Communications in Mathematical Physics, 2014, 329, 579-608. | 2.2 | 12 |
| 106 | Minimizing Properties of Critical Points of Quasi-Local Energy. Communications in Mathematical Physics, 2014, 329, 919-935. | 2.2 | 12 |
| 107 | Teichmüller Mapping (T-Map) and Its Applications to Landmark Matching Registration. SIAM Journal on Imaging Sciences, 2014, 7, 391-426. | 2.2 | 64 |
| 108 | A Novel Symmetric Skew-Hamiltonian Isotropic Lanczos Algorithm for Spectral Conformal Parameterizations. Journal of Scientific Computing, 2014, 61, 558-583. | 2.3 | 8 |

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|-----|--|------|-----------|
| 109 | Special polynomial rings, quasi modular forms and duality of topological strings. <i>Advances in Theoretical and Mathematical Physics</i> , 2014, 18, 401-467. | 0.6 | 33 |
| 110 | High performance computing for spherical conformal and Riemann mappings. <i>Geometry Imaging and Computing</i> , 2014, 1, 223-258. | 0.8 | 6 |
| 111 | Graphs associated with simplicial complexes. <i>Homology, Homotopy and Applications</i> , 2014, 16, 295-311. | 0.4 | 27 |
| 112 | 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 |
| 113 | Homotopy Theory for Digraphs. <i>Pure and Applied Mathematics Quarterly</i> , 2014, 10, 619-674. | 0.4 | 41 |
| 114 | A novel efficient homotopy continuation method in tracking. <i>Communications in Information and Systems</i> , 2014, 14, 57-78. | 0.5 | 0 |
| 115 | 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 |
| 116 | Raoul Bott at Harvard. <i>Notices of the International Congress of Chinese Mathematicians</i> , 2014, 2, 87-92. | 0.0 | 0 |
| 117 | Mathematics: Its content, methods, and meaning. <i>Notices of the International Congress of Chinese Mathematicians</i> , 2014, 2, 1-5. | 0.0 | 0 |
| 118 | Goodness of canonical metrics on the moduli space of Riemann surfaces. <i>Pure and Applied Mathematics Quarterly</i> , 2014, 10, 223-243. | 0.4 | 0 |
| 119 | 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 |
| 120 | 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 |
| 121 | Trees and tensors on Kähler manifolds. <i>Annals of Global Analysis and Geometry</i> , 2013, 44, 151-168. | 0.6 | 1 |
| 122 | Teichmüller Shape Descriptor and Its Application to Alzheimer's Disease Study. <i>International Journal of Computer Vision</i> , 2013, 105, 155-170. | 15.6 | 15 |
| 123 | Period integrals of CY and general type complete intersections. <i>Inventiones Mathematicae</i> , 2013, 191, 35-89. | 2.5 | 8 |
| 124 | Hyperbolic Harmonic Mapping for Constrained Brain Surface Registration. , 2013, , . | | 19 |
| 125 | Hyperbolic Harmonic Brain Surface Registration with Curvature-Based Landmark Matching. <i>Lecture Notes in Computer Science</i> , 2013, 23, 159-170. | 1.3 | 3 |
| 126 | Small resolutions of SU(5)-models in F-theory. <i>Advances in Theoretical and Mathematical Physics</i> , 2013, 17, 1195-1253. | 0.6 | 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 | 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 |
| 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. | 1.1 | 3 |
| 134 | Numerical Computation of Surface Conformal Mappings. Computational Methods and Function Theory, 2012, 11, 747-787. | 1.5 | 36 |
| 135 | Computing quasiconformal maps using an auxiliary metric and discrete curvature flow. Numerische Mathematik, 2012, 121, 671-703. | 1.9 | 44 |
| 136 | Brain Surface Conformal Parameterization With the Ricci Flow. IEEE Transactions on Medical Imaging, 2012, 31, 251-264. | 8.9 | 64 |
| 137 | Quantum Tunneling on Graphs. Communications in Mathematical Physics, 2012, 311, 113-132. | 2.2 | 5 |
| 138 | Optimization of Surface Registrations Using Beltrami Holomorphic Flow. Journal of Scientific Computing, 2012, 50, 557-585. | 2.3 | 61 |
| 139 | Geometry of singular space. Communications in Analysis and Geometry, 2012, 20, 1097-1134. | 0.4 | 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. | 0.5 | 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. | 2.2 | 14 |
| 144 | A survey of geometric structure in geometric analysis. Journal of Differential Geometry, 2011, 16, 325-348. | 1.0 | 0 |

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|-----|--|-----|-----------|
| 145 | Limit of Quasilocal Mass at Spatial Infinity. <i>Communications in Mathematical Physics</i> , 2010, 296, 271-283. | 2.2 | 12 |
| 146 | Metrics on complex manifolds. <i>Science China Mathematics</i> , 2010, 53, 565-572. | 1.7 | 6 |
| 147 | Fundamentals of Computational Conformal Geometry. <i>Mathematics in Computer Science</i> , 2010, 4, 389-429. | 0.4 | 16 |
| 148 | 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 |
| 149 | Compression of surface registrations using Beltrami coefficients. , 2010, , . | | 7 |
| 150 | Shape-Based Diffeomorphic Registration on Hippocampal Surfaces Using Beltrami Holomorphic Flow. <i>Lecture Notes in Computer Science</i> , 2010, 13, 323-330. | 1.3 | 24 |
| 151 | Quasi-local mass in general relativity. <i>Journal of Differential Geometry</i> , 2010, 15, 421-434. | 1.0 | 3 |
| 152 | Quasilocal Mass in General Relativity. <i>Physical Review Letters</i> , 2009, 102, 021101. | 7.8 | 92 |
| 153 | Local Geometry of the $G/2$ Moduli Space. <i>Communications in Mathematical Physics</i> , 2009, 287, 459-488. | 2.2 | 21 |
| 154 | Isometric Embeddings into the Minkowski Space and New Quasi-Local Mass. <i>Communications in Mathematical Physics</i> , 2009, 288, 919-942. | 2.2 | 84 |
| 155 | Local Heterotic Torsional Models. <i>Communications in Mathematical Physics</i> , 2009, 289, 1151-1169. | 2.2 | 50 |
| 156 | Recent development on the geometry of the Teichmüller and moduli spaces of Riemann surfaces. <i>Journal of Differential Geometry</i> , 2009, 14, 221-260. | 1.0 | 7 |
| 157 | Teichmüller Shape Space Theory and Its Application to Brain Morphometry. <i>Lecture Notes in Computer Science</i> , 2009, 12, 133-140. | 1.3 | 9 |
| 158 | Sasaki-Einstein Manifolds and Volume Minimisation. <i>Communications in Mathematical Physics</i> , 2008, 280, 611-673. | 2.2 | 213 |
| 159 | Canonical metrics on complex manifold. <i>Science in China Series A: Mathematics</i> , 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. <i>Proceedings of the London Mathematical Society</i> , 2008, 97, 401-424. | 1.3 | 52 |
| 162 | Real time solution of Duncan-Mortensen-Zakai equation without memory. , 2008, , . | | 1 |

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|-----|---|-----|-----------|
| 163 | Conformal Slit Mapping and Its Applications to Brain Surface Parameterization. Lecture Notes in Computer Science, 2008, 11, 585-593. | 1.3 | 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. | 8.9 | 82 |
| 167 | Geometric accuracy analysis for discrete surface approximation. Computer Aided Geometric Design, 2007, 24, 323-338. | 1.2 | 18 |
| 168 | Obstructions to the Existence of Sasaki-Einstein Metrics. Communications in Mathematical Physics, 2007, 273, 803-827. | 2.2 | 93 |
| 169 | Anomaly cancellation and smooth non-Kähler solutions in heterotic string theory. Nuclear Physics B, 2006, 751, 108-128. | 2.5 | 84 |
| 170 | Spacetime and the Geometry behind it. Milan Journal of Mathematics, 2006, 74, 339-356. | 1.1 | 0 |
| 171 | The Geometric Dual of "Maximisation for Toric Sasaki-Einstein Manifolds. Communications in Mathematical Physics, 2006, 268, 39-65. | 2.2 | 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. | 1.3 | 16 |
| 174 | Positivity of quasi-local mass II. Journal of the American Mathematical Society, 2005, 19, 181-204. | 3.9 | 40 |
| 175 | Uniform texture synthesis and texture mapping using global parameterization. Visual Computer, 2005, 21, 801-810. | 3.5 | 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. | 1.3 | 15 |
| 180 | Genus Zero Surface Conformal Mapping and Its Application to Brain Surface Mapping. IEEE Transactions on Medical Imaging, 2004, 23, 949-958. | 8.9 | 457 |

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| 181 | c = 2 Rational Toroidal Conformal Field Theories via the Gauss Product. Communications in Mathematical Physics, 2003, 241, 245-286. | 2.2 | 14 |
| 182 | Positivity of Quasilocal Mass. Physical Review Letters, 2003, 90, 231102. | 7.8 | 105 |
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