Julien Tierny

List of Publications by Year
in descending order

31 papers	967 citations	567281 15 h-index	610901 24 g-index
34 all docs	34 docs citations	34 times ranked	630 citing authors

#	Article	IF	Citations
1	Wasserstein Distances, Geodesics and Barycenters of Merge Trees. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 291-301.	4.4	13
2	TopoMap: A 0-dimensional Homology Preserving Projection of High-Dimensional Data. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 561-571.	4.4	10
3	Localized Topological Simplification of Scalar Data. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 572-582.	4.4	16
4	A Progressive Approach to Scalar Field Topology. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 2833-2850.	4.4	3
5	An Overview of the Topology ToolKit. Mathematics and Visualization, 2021, , 327-342.	0.6	6
6	Fast Approximation of Persistence Diagrams with Guarantees. , 2021, , .		2
7	A Topological Data Analysis perspective on noncovalent interactions in relativistic calculations. International Journal of Quantum Chemistry, 2020, 120, e26133.	2.0	16
8	Task-Based Augmented Contour Trees with Fibonacci Heaps. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 1889-1905.	5.6	25
9	Statistical Parameter Selection for Clustering Persistence Diagrams. , 2019, , .		7
10	Ranking Viscous Finger Simulations to an Acquired Ground Truth with Topology-Aware Matchings. , 2019, , .		12
11	Topological Analysis of High Velocity Turbulent Flow. , 2019, , .		3
12	The Topology ToolKit. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 832-842.	4.4	111
13	Lifted Wasserstein Matcher for Fast and Robust Topology Tracking. , 2018, , .		19
14	Fast and Exact Fiber Surfaces for Tetrahedral Meshes. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 1782-1795.	4.4	22
15	Jacobi Fiber Surfaces for Bivariate Reeb Space Computation. IEEE Transactions on Visualization and Computer Graphics, 2017, 23, 960-969.	4.4	27
16	Task-based augmented merge trees with Fibonacci heaps. , 2017, , .		30
17	Topological Data Analysis for Scientific Visualization. Mathematics and Visualization, 2017, , .	0.6	16
18	Interpretation of the reduced density gradient. Molecular Physics, 2016, 114, 1406-1414.	1.7	103

#	Article	IF	Citations
19	Fiber Surfaces: Generalizing Isosurfaces to Bivariate Data. Computer Graphics Forum, 2015, 34, 241-250.	3.0	45
20	Conforming Morse-Smale Complexes. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2595-2603.	4.4	33
21	Jacobians and Hessians of mean value coordinates for closed triangular meshes. Visual Computer, 2014, 30, 981-995.	3.5	12
22	Characterizing Molecular Interactions in Chemical Systems. IEEE Transactions on Visualization and Computer Graphics, 2014, 20, 2476-2485.	4.4	63
23	Topology analysis of time-dependent multi-fluid data using the Reeb graph. Computer Aided Geometric Design, 2013, 30, 557-566.	1.2	8
24	Analytic Curve Skeletons for 3D Surface Modeling and Processing. Computer Graphics Forum, 2012, 31, 2223-2232.	3.0	3
25	Generalized Topological Simplification of Scalar Fields on Surfaces. IEEE Transactions on Visualization and Computer Graphics, 2012, 18, 2005-2013.	4.4	37
26	CageR: Cage-Based Reverse Engineering of Animated 3D Shapes. Computer Graphics Forum, 2012, 31, 2303-2316.	3.0	14
27	Interactive Exploration and Analysis of Large-Scale Simulations Using Topology-Based Data Segmentation. IEEE Transactions on Visualization and Computer Graphics, 2011, 17, 1307-1324.	4.4	114
28	Partial 3D Shape Retrieval by Reeb Pattern Unfolding. Computer Graphics Forum, 2009, 28, 41-55.	3.0	77
29	Loop surgery for volumetric meshes: Reeb graphs reduced to contour trees. IEEE Transactions on Visualization and Computer Graphics, 2009, 15, 1177-1184.	4.4	67
30	Enhancing 3D mesh topological skeletons with discrete contour constrictions. Visual Computer, 2008, 24, 155-172.	3.5	26
31	Viscous Fingering: A Topological Visual Analytic Approach. Applied Mechanics and Materials, 0, 869, 9-19.	0.2	27