Martin Tancer

List of Publications by Year
in descending order

41 papers	273 citations	1307594 7 h-index	1058476 14 g-index
43 all docs	43 docs citations	43 times ranked	161 citing authors

#	Article	IF	Citations
1	Injective colorings of planar graphs with few colors. Discrete Mathematics, 2009, 309, 5636-5649.	0.7	38
2	Hardness of embedding simplicial complexes in $\mathbb{R}^d$. Journal of the European Mathematical Society, 2010, 13, 259-295.	1.4	37
3	Note: Combinatorial Alexander Duality—A Short and Elementary Proof. Discrete and Computational Geometry, 2009, 42, 586-593.	0.6	29
4	List-Coloring Squares of Sparse Subcubic Graphs. SIAM Journal on Discrete Mathematics, 2008, 22, 139-159.	0.8	21
5	Intersection Patterns of Convex Sets via Simplicial Complexes: A Survey. , 2013, , 521-540.		20
6	Recognition of Collapsible Complexes is NP-Complete. Discrete and Computational Geometry, 2016, 55, 21-38.	0.6	19
7	Backbone colorings of graphs with bounded degree. Discrete Applied Mathematics, 2010, 158, 534-542.	0.9	10
8	Construction of Large Graphs with No Optimal Surjective L(2,1)-Labelings. SIAM Journal on Discrete Mathematics, 2006, 20, 536-543.	0.8	7
9	Bounding Helly Numbers via Betti Numbers. , 2017, , 407-447.		7
10	Dimension Gaps between Representability and Collapsibility. Discrete and Computational Geometry, 2009, 42, 631-639.	0.6	6
11	A Geometric Proof of the Colored Tverberg Theorem. Discrete and Computational Geometry, 2012, 47, 245-265.	0.6	6
12	Embeddability in the 3-sphere is decidable. , 2014, , .		6
13	Backbone Colorings and Generalized Mycielski Graphs. SIAM Journal on Discrete Mathematics, 2009, 23, 1063-1070.	0.8	5
14	Shellability is NP-complete. Journal of the ACM, 2019, 66, 1-18.	2.2	5
15	Nerves of Good Covers Are Algorithmically Unrecognizable. SIAM Journal on Computing, 2013, 42, 1697-1719.	1.0	4
16	Embeddability in the 3-Sphere Is Decidable. Journal of the ACM, 2018, 65, 1-49.	2.2	4
17	Title is missing!. Chicago Journal of Theoretical Computer Science, 2010, 16, 1-28.	0.3	4
18	On the Complexity of Planar Covering of Small Graphs. Lecture Notes in Computer Science, 2011, , 83-94.	1.3	4

#	Article	IF	Citations
19	Embeddability in R ³ is NP-hard. Journal of the ACM, 2020, 67, 1-29.	2.2	4
20	Bounds for Pach's Selection Theorem and for the Minimum Solid Angle in a Simplex. Discrete and Computational Geometry, 2015, 54, 610-636.	0.6	3
21	Untangling two systems of noncrossing curves. Israel Journal of Mathematics, 2016, 212, 37-79.	0.8	3
22	The unbearable hardness of unknotting. Advances in Mathematics, 2021, 381, 107648.	1.1	3
23	Hardness of almost embedding simplicial complexes in $$\mathbb {R}^d$$ R d. Discrete and Computational Geometry, 2019, 61, 452-463.	0.6	3
24	Non-representability of finite projective planes by convex sets. Proceedings of the American Mathematical Society, 2010, 138, 3285-3285.	0.8	2
25	A Counterexample to Wegner's Conjecture on Good Covers. Discrete and Computational Geometry, 2012, 47, 266-274.	0.6	2
26	Non-Embeddability of Geometric Lattices and Buildings. Discrete and Computational Geometry, 2014, 51, 779-801.	0.6	2
27	Simplifying Inclusion–Exclusion Formulas. Combinatorics Probability and Computing, 2015, 24, 438-456.	1.3	2
28	Shortest Path Embeddings of Graphs on Surfaces. Discrete and Computational Geometry, 2017, 58, 921-945.	0.6	2
29	On generalized Heawood inequalities for manifolds: a van Kampen–Flores-type nonembeddability result. Israel Journal of Mathematics, 2017, 222, 841-866.	0.8	2
30	Pach's Selection Theorem Does Not Admit a Topological Extension. Discrete and Computational Geometry, 2018, 60, 420-429.	0.6	2
31	Embeddability in ℝ³ is NP-hard. , 2018, , 1316-1329.		2
32	On the growth of the Möbius function of permutations. Journal of Combinatorial Theory - Series A, 2020, 169, 105121.	0.8	2
33	Untangling Two Systems of Noncrossing Curves. Lecture Notes in Computer Science, 2013, , 472-483.	1.3	2
34	A Direct Proof of the Strong Hanani-Tutte Theorem on the Projective Plane. Journal of Graph Algorithms and Applications, 2017, 21, 939-981.	0.4	2
35	An engine breaking the Ι©EP-property. Topology and Its Applications, 2006, 153, 3621-3626.	0.4	1
36	Shellability of the higher pinched Veronese posets. Journal of Algebraic Combinatorics, 2014, 40, 711-742.	0.8	1

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37	d-collapsibility is NP-complete for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>d</mml:mi><mml:mo>â©¾</mml:mo><mml:mn>4</mml:mn></mml:math>. Electronic Notes in Discrete Mathematics, 2009, 34, 53-57.	0.4	0
38	On Betti numbers of flag complexes with forbidden induced subgraphs. Mathematical Proceedings of the Cambridge Philosophical Society, 2020, 168, 567-600.	0.4	0
39	Shellings and Sheddings Induced by Collapses. SIAM Journal on Discrete Mathematics, 2021, 35, 1978-2002.	0.8	0
40	Barycentric Cuts Through a Convex Body. Discrete and Computational Geometry, 0, , 1.	0.6	0
41	Even Maps, the Colin de VerdiÃ¨re Number and Representations of Graphs. Combinatorica, 0, , .	1.2	0