Shmuel Weinberger

List of Publications by Year
in descending order

		687363	477307
37 papers	913 citations	13 h-index	29 g-index
39 all docs	39 docs citations	39 times ranked	372 citing authors

#	Article	IF	Citations
1	Finding the Homology of Submanifolds with High Confidence fromÂRandomÂSamples. Discrete and Computational Geometry, 2008, 39, 419-441.	0.6	307
2	The Novikov Conjecture for Linear Groups. Publications Mathematiques De L'Institut Des Hautes Etudes Scientifiques, 2005, 101, 243-268.	4.3	129
3	Curvature, tangentiality, and controlled topology. Inventiones Mathematicae, 1991, 105, 401-414.	2.5	57
4	Persistent homology for random fields and complexes. Institute of Mathematical Statistics Collections, 2010, , 124-143.	0.3	52
5	Finite part of operator Kâ€"theory for groups finitely embeddable into Hilbert space and the degree of nonrigidity of manifolds. Geometry and Topology, 2015, 19, 2767-2799.	1.3	44
6	A coarse approach to the Novikov conjecture. , 1995, , 147-163.		33
7	Crackle: The Homology of Noise. Discrete and Computational Geometry, 2014, 52, 680-704.	0.6	32
8	On invariants of Hirzebruch and Cheegerâ€"Gromov. Geometry and Topology, 2003, 7, 311-319.	1.3	29
9	The Fractal Nature of Riem/Diff I. Geometriae Dedicata, 2003, 101, 1-54.	0.3	23
10	On the vanishing of homology in random ÄŒech complexes. Random Structures and Algorithms, 2017, 51, 14-51.	1.1	20
11	Group actions and equivariant Lipschitz analysis. Bulletin of the American Mathematical Society, 1987, 17, 109-112.	1.5	14
12	HigherG-signatures for Lipschitz manifolds. K-theory, 1993, 7, 101-132.	0.5	14
13	Surgery and stratified spaces. , 2001, , 319-352.		14
14	E7, Wirtinger inequalities, Cayley 4-form, and homotopy. Duke Mathematical Journal, 2009, 146, .	1.5	14
15	Finding the Homology of Submanifolds with High Confidence from Random Samples. Discrete and Computational Geometry, 2008, 39, 419.	0.6	13
16	An equivariant Novikov conjecture. K-theory, 1990, 4, 29-53.	0.5	12
17	The signature operator at 2. Topology, 2006, 45, 47-63.	0.3	10
18	Additivity of Higher Rho Invariants and Nonrigidity of Topological Manifolds. Communications on Pure and Applied Mathematics, 2021, 74, 3-113.	3.1	9

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19	The classification of nonlinear similarities over ${ext{Z}}_{2^r }$. Bulletin of the American Mathematical Society, 1990, 22, 51-58.	1.5	7
20	Taming 3-manifolds using scalar curvature. Geometriae Dedicata, 2010, 148, 3-14.	0.3	7
21	Quantitative nullhomotopy and rational homotopy type. Geometric and Functional Analysis, 2018, 28, 563-588.	1.8	7
22	Nonlocally Linear Manifolds and Orbifolds. , 1995, , 637-647.		6
23	The intrinsic asymmetry and inhomogeneity of Teichmüller space. Duke Mathematical Journal, 2010, 155, .	1.5	5
24	Semifree locally linear pl actions on the sphere. Israel Journal of Mathematics, 1989, 66, 351-363.	0.8	4
25	Topological nonrigidity of nonuniform lattices. Communications on Pure and Applied Mathematics, 2007, 60, 282-290.	3.1	4
26	Closed aspherical manifolds with center. Journal of Topology, 2013, 6, 1009-1018.	0.5	4
27	The Complexity of Some Topological Inference Problems. Foundations of Computational Mathematics, 2014, 14, 1277-1285.	2.5	3
28	On the stable Cannon Conjecture. Journal of Topology, 2019, 12, 799-832.	0.5	3
29	Free â„š/â„¤ actions. Commentarii Mathematici Helvetici, 1987, 62, 450-464.	0.7	2
30	Interpolation, the Rudimentary Geometry of Spaces of Lipschitz Functions, and Geometric Complexity. Foundations of Computational Mathematics, 2019, 19, 991-1011.	2.5	2
31	An infinite-dimensional phenomenon in finite-dimensional metric topology. Cambridge Journal of Mathematics, 2020, 8, 95-147.	1.5	2
32	Rationality of Î·•invariants. Mathematische Zeitschrift, 1996, 223, 245-246.	0.9	1
33	Characteristic fixed-point sets of semifree actions on spheres. Communications on Pure and Applied Mathematics, 1999, 52, 935-947.	3.1	1
34	Convergence of the reach for a sequence of Gaussian-embedded manifolds. Probability Theory and Related Fields, 2018, 171, 1045-1091.	1.8	1
35	Fixed-point theories on noncompact manifolds. Journal of Fixed Point Theory and Applications, 2009, 6, 15-25.	1.1	0
36	Bruce Williams. Geometriae Dedicata, 2010, 148, 1-2.	0.3	0

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37	A trichotomy theorem for transformation groups of locally symmetric manifolds and topological rigidity. Advances in Mathematics, 2018, 327, 25-46.	1.1	0