

Robert Connelly

List of Publications by Year in descending order

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35
papers

1,566
citations

636246

13
h-index

406909

32
g-index

41
all docs

41
docs citations

41
times ranked

869
citing authors

#	ARTICLE	IF	CITATIONS
1	Generic Global Rigidity. <i>Discrete and Computational Geometry</i> , 2005, 33, 549-563.	0.7	283
2	Second-Order Rigidity and Prestress Stability for Tensegrity Frameworks. <i>SIAM Journal on Discrete Mathematics</i> , 1996, 9, 453-491.	0.8	217
3	Rigidity and energy. <i>Inventiones Mathematicae</i> , 1982, 66, 11-33.	2.3	215
4	Jamming in hard sphere and disk packings. <i>Journal of Applied Physics</i> , 2004, 95, 989-999.	2.3	188
5	A linear programming algorithm to test for jamming in hard-sphere packings. <i>Journal of Computational Physics</i> , 2004, 197, 139-166.	3.9	103
6	Blowing Up Polygonal Linkages. <i>Discrete and Computational Geometry</i> , 2003, 30, 205-239.	0.7	67
7	Sudoku, Gerechte Designs, Resolutions, Affine Space, Spreads, Reguli, and Hamming Codes. <i>American Mathematical Monthly</i> , 2008, 115, 383-404.	0.4	66
8	A flexible sphere. <i>Mathematical Intelligencer</i> , 1978, 1, 130-131.	0.2	25
9	Realizability of Graphs. <i>Discrete and Computational Geometry</i> , 2007, 37, 125-137.	0.7	25
10	Iterative Universal Rigidity. <i>Discrete and Computational Geometry</i> , 2015, 53, 847-877.	0.7	17
11	Rigidity of packings. <i>European Journal of Combinatorics</i> , 2008, 29, 1862-1871.	0.8	15
12	The rigidity of suspensions. <i>Journal of Differential Geometry</i> , 1978, 13, .	1.0	14
13	Percolation of the Loss of Tension in an Infinite Triangular Lattice. <i>Journal of Statistical Physics</i> , 2001, 105, 143-171.	1.2	13
14	Tensegrities and Global Rigidity. , 2013, , 267-278.		13
15	The Kneser-Poulsen Conjecture for Spherical Polytopes. <i>Discrete and Computational Geometry</i> , 2004, 32, 101-106.	0.7	12
16	Periodic planar disc packings. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20120039.	3.5	11
17	Ball Packings with Periodic Constraints. <i>Discrete and Computational Geometry</i> , 2014, 52, 754-779.	0.7	10
18	Generically Globally Rigid Graphs Have Generic Universally Rigid Frameworks. <i>Combinatorica</i> , 2020, 40, 1-37.	1.1	9

#	ARTICLE	IF	CITATIONS
19	Locked and Unlocked Chains of Planar Shapes. <i>Discrete and Computational Geometry</i> , 2010, 44, 439-462.	0.7	8
20	Comments on generalized Heron polynomials and Robbins's conjectures. <i>Discrete Mathematics</i> , 2009, 309, 4192-4196.	0.7	7
21	Locked and unlocked chains of planar shapes. , 2006, , .		6
22	Universal Rigidity of Complete Bipartite Graphs. <i>Discrete and Computational Geometry</i> , 2017, 57, 281-304.	0.7	6
23	TWO-DISTANCE PRESERVING FUNCTIONS FROM EUCLIDEAN SPACE. <i>Periodica Mathematica Hungarica</i> , 2000, 39, 185-200.	0.8	5
24	Rigidity for sticky discs. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180773.	2.1	5
25	Packing Disks by Flipping and Flowing. <i>Discrete and Computational Geometry</i> , 2021, 66, 1262-1285.	0.7	5
26	Realizations of Isostatic Material Frameworks. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000555.	1.6	5
27	Prestress Stability of Triangulated Convex Polytopes and Universal Second-Order Rigidity. <i>SIAM Journal on Discrete Mathematics</i> , 2017, 31, 2735-2753.	0.8	4
28	Affine Rigidity and Conics at Infinity. <i>International Mathematics Research Notices</i> , 0, , .	0.9	3
29	The Isostatic Conjecture. <i>Discrete and Computational Geometry</i> , 2020, 64, 734-758.	0.7	2
30	On the weighted Kneser-Poulsen conjecture. <i>Periodica Mathematica Hungarica</i> , 2008, 57, 121-129.	0.8	1
31	Packings of Equal Disks in a Square Torus. <i>Discrete and Computational Geometry</i> , 2017, 58, 614-642.	0.7	1
32	Winning Ways for Your Mathematical Plays, Volumes I & II By Elwyn R. Berlekamp, John H. Conway. <i>American Mathematical Monthly</i> , 1986, 93, 411-414.	0.4	0
33	Free Edge Lengths in Plane Graphs. , 2014, , .		0
34	Free Edge Lengths in Plane Graphs. <i>Discrete and Computational Geometry</i> , 2015, 54, 259-289.	0.7	0
35	Straight line motion with rigid sets. <i>Beitrage Zur Algebra Und Geometrie</i> , 2018, 59, 127-132.	0.5	0