

# Robert Connelly

## List of Publications by Year in descending order

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41  
papers

1,600  
citations

623188

14  
h-index

344852

36  
g-index

44  
all docs

44  
docs citations

44  
times ranked

824  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generic Global Rigidity. <i>Discrete and Computational Geometry</i> , 2005, 33, 549-563.	0.4	273
2	Rigidity and energy. <i>Inventiones Mathematicae</i> , 1982, 66, 11-33.	1.3	213
3	Second-Order Rigidity and Prestress Stability for Tensegrity Frameworks. <i>SIAM Journal on Discrete Mathematics</i> , 1996, 9, 453-491.	0.4	212
4	Jamming in hard sphere and disk packings. <i>Journal of Applied Physics</i> , 2004, 95, 989-999.	1.1	186
5	Mathematics and Tensegrity. <i>American Scientist</i> , 1998, 86, 142.	0.1	129
6	A linear programming algorithm to test for jamming in hard-sphere packings. <i>Journal of Computational Physics</i> , 2004, 197, 139-166.	1.9	102
7	Blowing Up Polygonal Linkages. <i>Discrete and Computational Geometry</i> , 2003, 30, 205-239.	0.4	66
8	Sudoku, Gerechte Designs, Resolutions, Affine Space, Spreads, Reguli, and Hamming Codes. <i>American Mathematical Monthly</i> , 2008, 115, 383-404.	0.2	66
9	Rigidity. , 1993, , 223-271.		63
10	Global Rigidity: The Effect of Coning. <i>Discrete and Computational Geometry</i> , 2010, 43, 717-735.	0.4	54
11	A flexible sphere. <i>Mathematical Intelligencer</i> , 1978, 1, 130-131.	0.1	25
12	Realizability of Graphs. <i>Discrete and Computational Geometry</i> , 2007, 37, 125-137.	0.4	25
13	Iterative Universal Rigidity. <i>Discrete and Computational Geometry</i> , 2015, 53, 847-877.	0.4	16
14	Rigidity of packings. <i>European Journal of Combinatorics</i> , 2008, 29, 1862-1871.	0.5	15
15	The rigidity of suspensions. <i>Journal of Differential Geometry</i> , 1978, 13, .	0.5	14
16	Percolation of the Loss of Tension in an Infinite Triangular Lattice. <i>Journal of Statistical Physics</i> , 2001, 105, 143-171.	0.5	13
17	The Kneser?Poulsen Conjecture for Spherical Polytopes. <i>Discrete and Computational Geometry</i> , 2004, 32, 101-106.	0.4	12
18	Ball Packings with Periodic Constraints. <i>Discrete and Computational Geometry</i> , 2014, 52, 754-779.	0.4	10

#	ARTICLE	IF	CITATIONS
19	Periodic planar disc packings. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20120039.	1.6	10
20	Combining globally rigid frameworks. Proceedings of the Steklov Institute of Mathematics, 2011, 275, 191-198.	0.1	9
21	Locked and Unlocked Chains of Planar Shapes. Discrete and Computational Geometry, 2010, 44, 439-462.	0.4	8
22	Generically Globally Rigid Graphs Have Generic Universally Rigid Frameworks. Combinatorica, 2020, 40, 1-37.	0.6	7
23	Locked and unlocked chains of planar shapes. , 2006, , .		6
24	Comments on generalized Heron polynomials and Robbins's™ conjectures. Discrete Mathematics, 2009, 309, 4192-4196.	0.4	6
25	TWO-DISTANCE PRESERVING FUNCTIONS FROM EUCLIDEAN SPACE. Periodica Mathematica Hungarica, 2000, 39, 185-200.	0.5	5
26	Universal Rigidity of Complete Bipartite Graphs. Discrete and Computational Geometry, 2017, 57, 281-304.	0.4	5
27	Rigidity for sticky discs. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180773.	1.0	5
28	Realizations of Isostatic Material Frameworks. Physica Status Solidi (B): Basic Research, 2021, 258, 2000555.	0.7	5
29	Prestress Stability of Triangulated Convex Polytopes and Universal Second-Order Rigidity. SIAM Journal on Discrete Mathematics, 2017, 31, 2735-2753.	0.4	4
30	Packing Disks by Flipping and Flowing. Discrete and Computational Geometry, 2021, 66, 1262-1285.	0.4	4
31	The Isostatic Conjecture. Discrete and Computational Geometry, 2020, 64, 734-758.	0.4	2
32	Finite and uniform stability of sphere coverings. Discrete and Computational Geometry, 1995, 13, 313-319.	0.4	1
33	On the weighted Kneser-Poulsen conjecture. Periodica Mathematica Hungarica, 2008, 57, 121-129.	0.5	1
34	Packings of Equal Disks in a Square Torus. Discrete and Computational Geometry, 2017, 58, 614-642.	0.4	1
35	Affine Rigidity and Conics at Infinity. International Mathematics Research Notices, 2017, , .	0.5	1
36	WHAT IS...a Tensegrity?. Notices of the American Mathematical Society, 2013, 60, 1.	0.1	1

#	ARTICLE	IF	CITATIONS
37	Winning Ways for Your Mathematical Plays, Volumes I & II By Elwyn R. Berlekamp, John H. Conway. American Mathematical Monthly, 1986, 93, 411-414.	0.2	0
38	4th GEOMETRY FESTIVAL, BUDAPEST. Periodica Mathematica Hungarica, 2000, 39, 1-6.	0.5	0
39	Free Edge Lengths in Plane Graphs. , 2014, , .		0
40	Free Edge Lengths in Plane Graphs. Discrete and Computational Geometry, 2015, 54, 259-289.	0.4	0
41	Straight line motion with rigid sets. Beitrage Zur Algebra Und Geometrie, 2018, 59, 127-132.	0.3	0