

# Gilbert Strang

## List of Publications by Year in descending order

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19  
papers

493  
citations

1163117

8  
h-index

940533

16  
g-index

20  
all docs

20  
docs citations

20  
times ranked

219  
citing authors

#	ARTICLE	IF	CITATIONS
1	Approximation by translates of refinable functions. <i>Numerische Mathematik</i> , 1996, 73, 75-94.	1.9	136
2	Approximation in the finite element method. <i>Numerische Mathematik</i> , 1972, 19, 81-98.	1.9	134
3	Optimal design in elasticity and plasticity. <i>International Journal for Numerical Methods in Engineering</i> , 1986, 22, 183-188.	2.8	63
4	Pascal Matrices. <i>American Mathematical Monthly</i> , 2004, 111, 189-197.	0.3	63
5	Inhomogeneous refinement equations. <i>Journal of Fourier Analysis and Applications</i> , 1998, 4, 733-747.	1.0	28
6	The Green's function for the Hückel (tight binding) model. <i>Journal of Mathematical Physics</i> , 2017, 58, 033505.	1.1	15
7	The Width of a Chair. <i>American Mathematical Monthly</i> , 1982, 89, 529-534.	0.3	12
8	Paradox lost: Natural boundary conditions in the Ritz-Galerkin method. <i>International Journal for Numerical Methods in Engineering</i> , 1988, 26, 2255-2266.	2.8	10
9	On multiple characteristics and the Levi-Lax conditions for hyperbolicity. <i>Archive for Rational Mechanics and Analysis</i> , 1969, 33, 358-373.	2.4	8
10	Maximum area with Minkowski measures of perimeter. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2008, 138, 189-199.	1.2	6
11	Duality in the Classroom. <i>American Mathematical Monthly</i> , 1984, 91, 250-254.	0.3	5
12	A homework exercise in finite elements. <i>International Journal for Numerical Methods in Engineering</i> , 1977, 11, 411-417.	2.8	3
13	Binomial Matrices. <i>Advances in Computational Mathematics</i> , 2001, 14, 379-391.	1.6	3
14	Multiplying and Factoring Matrices. <i>American Mathematical Monthly</i> , 2018, 125, 223-230.	0.3	3
15	Random Triangle Theory with Geometry and Applications. <i>Foundations of Computational Mathematics</i> , 2015, 15, 681-713.	2.5	2
16	BLOCK TRIDIAGONAL MATRICES AND THE KALMAN FILTER. , 2002, , .		0
17	LINEAR ALGEBRA: A HAPPY CHANCE TO APPLY MATHEMATICS. , 2008, , .		0
18	CREATING AND COMPARING WAVELETS. , 1996, , 345-354.		0

#	ARTICLE	IF	CITATIONS
19	Linear Algebra Online and Offline: The 2015 Lin Lectures. Notices of the International Congress of Chinese Mathematicians, 2015, 3, 30-32.	0.0	0