

Ángel Plaza

List of Publications by Year in descending order

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102
papers

963
citations

623734

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477307

29
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104
all docs

104
docs citations

104
times ranked

314
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Fibonacci k-numbers. Chaos, Solitons and Fractals, 2007, 32, 1615-1624.	5.1	197
2	The k-Fibonacci sequence and the Pascal 2-triangle. Chaos, Solitons and Fractals, 2007, 33, 38-49.	5.1	135
3	On k-Fibonacci sequences and polynomials and their derivatives. Chaos, Solitons and Fractals, 2009, 39, 1005-1019.	5.1	86
4	Local refinement of simplicial grids based on the skeleton. Applied Numerical Mathematics, 2000, 32, 195-218.	2.1	82
5	The k-Fibonacci hyperbolic functions. Chaos, Solitons and Fractals, 2008, 38, 409-420.	5.1	35
6	On k-Fibonacci numbers of arithmetic indexes. Applied Mathematics and Computation, 2009, 208, 180-185.	2.2	29
7	Mesh quality improvement and other properties in the four-triangles longest-edge partition. Computer Aided Geometric Design, 2004, 21, 353-369.	1.2	26
8	A 3D refinement/derefinement algorithm for solving evolution problems. Applied Numerical Mathematics, 2000, 32, 401-418.	2.1	25
9	On the 3-dimensional k-Fibonacci spirals. Chaos, Solitons and Fractals, 2008, 38, 993-1003.	5.1	22
10	k-Fibonacci sequences modulo m. Chaos, Solitons and Fractals, 2009, 41, 497-504.	5.1	21
11	Non-degeneracy study of the 8-tetrahedra longest-edge partition. Applied Numerical Mathematics, 2005, 55, 458-472.	2.1	19
12	Application of a nonlinear evolution model to fire propagation. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 2873-2882.	1.1	18
13	The propagation problem in longest-edge refinement. Finite Elements in Analysis and Design, 2005, 42, 130-151.	3.2	17
14	Graph-based data structures for skeleton-based refinement algorithms. Communications in Numerical Methods in Engineering, 2001, 17, 903-910.	1.3	16
15	On the non-degeneracy property of the longest-edge trisection of triangles. Applied Mathematics and Computation, 2010, 216, 862-869.	2.2	16
16	On the adjacencies of triangular meshes based on skeleton-regular partitions. Journal of Computational and Applied Mathematics, 2002, 140, 673-693.	2.0	14
17	An improved derefinement algorithm of nested meshes. Advances in Engineering Software, 1996, 27, 51-57.	3.8	13
18	A geometric diagram and hybrid scheme for triangle subdivision. Computer Aided Geometric Design, 2007, 24, 19-27.	1.2	13

#	ARTICLE	IF	CITATIONS
19	Binomial Transforms of the k-Fibonacci Sequence. International Journal of Nonlinear Sciences and Numerical Simulation, 2009, 10, 1527-1538.	1.0	13
20	A comparative study between some bisection based partitions in 3D. Applied Numerical Mathematics, 2005, 55, 357-367.	2.1	12
21	The 8-tetrahedra longest-edge partition of right-type tetrahedra. Finite Elements in Analysis and Design, 2004, 41, 253-265.	3.2	11
22	The seven-triangle longest-side partition of triangles and mesh quality improvement. Finite Elements in Analysis and Design, 2008, 44, 748-758.	3.2	11
23	Properties of the longest-edge n -section refinement scheme for triangular meshes. Applied Mathematics Letters, 2012, 25, 2037-2039.	2.7	11
24	Propagation of longest-edge mesh patterns in local adaptive refinement. Communications in Numerical Methods in Engineering, 2006, 24, 543-553.	1.3	10
25	Four-triangles adaptive algorithms for RTIN terrain meshes. Mathematical and Computer Modelling, 2009, 49, 1012-1020.	2.0	10
26	Longest-edge n -section algorithms: Properties and open problems. Journal of Computational and Applied Mathematics, 2016, 293, 139-146.	2.0	10
27	The fractal behaviour of triangular refined/derefinned meshes. Communications in Numerical Methods in Engineering, 1996, 12, 295-302.	1.3	8
28	The eight-tetrahedra longest-edge partition and Kuhn triangulations. Computers and Mathematics With Applications, 2007, 54, 427-433.	2.7	8
29	Refinement based on longest-edge and self-similar four-triangle partitions. Mathematics and Computers in Simulation, 2007, 75, 251-262.	4.4	8
30	Fractality of refined triangular grids and space-filling curves. Engineering With Computers, 2005, 20, 323-332.	6.1	7
31	Proving the non-degeneracy of the longest-edge trisection by a space of triangular shapes with hyperbolic metric. Applied Mathematics and Computation, 2013, 221, 424-432.	2.2	7
32	Local refinement based on the 7-triangle longest-edge partition. Mathematics and Computers in Simulation, 2009, 79, 2444-2457.	4.4	6
33	A new proof of the degeneracy property of the longest-edge n -section refinement scheme for triangular meshes. Applied Mathematics and Computation, 2012, 219, 2342-2344.	2.2	6
34	A local refinement algorithm for the longest-edge trisection of triangle meshes. Mathematics and Computers in Simulation, 2012, 82, 2971-2981.	4.4	6
35	Average adjacencies for tetrahedral skeleton-regular partitions. Journal of Computational and Applied Mathematics, 2005, 177, 141-158.	2.0	4
36	The metallic ratios as limits of complex valued transformations. Chaos, Solitons and Fractals, 2009, 41, 1-13.	5.1	3

#	ARTICLE	IF	CITATIONS
37	There are simple and robust refinements (almost) as good as Delaunay. <i>Mathematics and Computers in Simulation</i> , 2014, 106, 84-94.	4.4	3
38	Proof Without Words: Arctangent of Two and the Golden Ratio. <i>Mathematics Magazine</i> , 2017, 90, 179-179.	0.1	3
39	The 8T-LE partition applied to the obtuse triangulations of the 3D-cube. <i>Mathematics and Computers in Simulation</i> , 2020, 176, 254-265.	4.4	3
40	Properties of triangulations obtained by the longest-edge bisection. <i>Open Mathematics</i> , 2014, 12, .	1.0	2
41	On the maximum angle condition for the conforming longest-edge n-section algorithm for large values of n. <i>Computer Aided Geometric Design</i> , 2015, 32, 69-73.	1.2	2
42	Adaptive techniques for unstructured nested meshes. <i>Applied Numerical Mathematics</i> , 2004, 51, 565-579.	2.1	1
43	Non-equivalent partitions of d-triangles with Steiner points. <i>Applied Numerical Mathematics</i> , 2004, 49, 415-430.	2.1	1
44	Proof Without Words: Alternating Sums of Squares of Odd Numbers. <i>Mathematics Magazine</i> , 2007, 80, 74-75.	0.1	1
45	Combinatorial proofs of Honsberger-type identities. <i>International Journal of Mathematical Education in Science and Technology</i> , 2008, 39, 785-792.	1.4	1
46	Proof Without Words: Exponential Inequalities. <i>Mathematics Magazine</i> , 2008, 81, 374-374.	0.1	1
47	Two-sided estimation of diameters reduction rate for the longest edge n-section of triangles with <small><math>\langle \text{mml:math altimg="si24.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevie. Applied</small>	2.2	1
48	A mathematical proof of how fast the diameters of a triangle mesh tend to zero after repeated trisection. <i>Mathematics and Computers in Simulation</i> , 2014, 106, 95-108.	4.4	1
49	The Parallelogram with Maximum Perimeter for Given Diagonals Is the Rhombus – A Proof Without Words and a Corollary. <i>Mathematics Magazine</i> , 2015, 88, 360-361.	0.1	1
50	Proof Without Words: Sum of Triangular Numbers. <i>Mathematics Magazine</i> , 2016, 89, 36-37.	0.1	1
51	100.12 Visual proof of the limit of f-mean recurrence sequences. <i>Mathematical Gazette</i> , 2016, 100, 139-141.	0.0	1
52	Hamiltonian triangular refinements and space-filling curves. <i>Journal of Computational and Applied Mathematics</i> , 2019, 346, 18-25.	2.0	1
53	kth Power of a Partial Sum. <i>American Mathematical Monthly</i> , 2019, 126, 467-467.	0.3	1
54	Proof Without Words: The Square of a Sum. <i>Mathematics Magazine</i> , 2019, 92, 17-17.	0.1	1

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55	Proof Without Words: Bernoulli's Inequality. Mathematics Magazine, 2009, 82, 62-62.	0.1	1
56	106.07 A function-based proof of the harmonic mean $\hat{=}$ geometric mean $\hat{=}$ arithmetic mean inequalities. Mathematical Gazette, 2022, 106, 130-131.	0.0	1
57	Block-balanced meshes in iterative uniform refinement. Computer Aided Geometric Design, 2006, 23, 684-697.	1.2	0
58	Proof Without Words: Alternating Sum of an Even Number of Triangular Numbers. Mathematics Magazine, 2007, 80, 76-76.	0.1	0
59	Proof Without Words: Every Triangle Can Be Subdivided into Six Isosceles Triangles. Mathematics Magazine, 2007, 80, 195-195.	0.1	0
60	Identities for generalized Fibonacci numbers: a combinatorial approach. International Journal of Mathematical Education in Science and Technology, 2008, 39, 563-566.	1.4	0
61	92.59 A recurrence relation for Fibonacci sums: a combinatorial approach. Mathematical Gazette, 2008, 92, 480-482.	0.0	0
62	A Triangle Inequality and its Elementary Proof. Math Horizons, 2008, 15, 30-30.	0.0	0
63	Proof Without Words: Bernoulli's Inequality. Mathematics Magazine, 2009, 82, 62-62.	0.1	0
64	Proof Without Words: Mengoli's Series. Mathematics Magazine, 2010, 83, 140-140.	0.1	0
65	A note on "Some inequalities in inner product spaces related to the generalized triangle inequality" by S.S. Dragomir et al.. Applied Mathematics and Computation, 2011, 217, 9497-9498.	2.2	0
66	Proof Without Words: Fibonacci Triangles and Trapezoids. Mathematics Magazine, 2013, 86, 55-55.	0.1	0
67	Proof Without Words: Limit of a Recursive Arithmetic Mean. College Mathematics Journal, 2014, 45, 364-364.	0.1	0
68	Proof Without Words: Arithmetic Mean of Two Means. College Mathematics Journal, 2016, 47, 125-125.	0.1	0
69	Proof Without Words: Limit of a Recursive Arithmetic Mean. Mathematics Magazine, 2016, 89, 189-189.	0.1	0
70	Proof Without Words: Limit of a Recursive Root Mean Square. Mathematics Magazine, 2016, 89, 177-178.	0.1	0
71	100.38 Proof without words: sum of a numerical series by telescoping. Mathematical Gazette, 2016, 100, 523-523.	0.0	0
72	100.39 An olympiad mathematical problem, proof without words and generalisation. Mathematical Gazette, 2016, 100, 524-525.	0.0	0

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73	Proof Without Words: Alternating Row Sums in Pascal's Triangle. Mathematics Magazine, 2016, 89, 358-358.	0.1	0
74	Proof Without Words: The Parallelogram With Maximum Perimeter for Given Diagonals Is the Rhombus. Mathematics Magazine, 2016, 89, 251-251.	0.1	0
75	Proof Without Words: Alternating Row Sums in Pascal's Triangle. Mathematics Magazine, 2016, 89, 281-281.	0.1	0
76	Proof Without Words: The Triangle with Maximum Area for a Given Base and Perimeter. College Mathematics Journal, 2017, 48, 51-51.	0.1	0
77	Proof Without Words: Sum of a Row in Pascal's Triangle. College Mathematics Journal, 2017, 48, 188-188.	0.1	0
78	Proof Without Words: Partial Column Sums in Pascal's Triangle. Mathematics Magazine, 2017, 90, 117-118.	0.1	0
79	Proof Without Words: A Pascal-Like Triangle With Pell Number Row Sums. College Mathematics Journal, 2017, 48, 346-346.	0.1	0
80	Proof Without Words: An Alternating Geometric Series. College Mathematics Journal, 2018, 49, 200-200.	0.1	0
81	Proof Without Words: Three Arctangent Identities. Mathematics Magazine, 2018, 91, 51-51.	0.1	0
82	Proof Without Words: Tangent Plus Cotangent is Greater or Equal Than 2. Mathematics Magazine, 2018, 91, 363-363.	0.1	0
83	102.42 Proof without Words: An alternating geometrical series. Mathematical Gazette, 2018, 102, 504-505.	0.0	0
84	The Generalized Harmonic Series Diverges by the AM-GM Inequality. Mathematics Magazine, 2018, 91, 217-217.	0.1	0
85	A mechanically-based proof of the arithmetic mean harmonic mean inequality. International Journal of Mathematical Education in Science and Technology, 2020, , 1-3.	1.4	0
86	Half Row Sums in Pascal's Triangle. Mathematics Magazine, 2020, 93, 308-308.	0.1	0
87	104.14 More on zero-over-zero limits of special type. Mathematical Gazette, 2020, 104, 310-313.	0.0	0
88	104.22 Proof without Words: Minimum perimeter of an inscribed quadrangle to a square. Mathematical Gazette, 2020, 104, 338-339.	0.0	0
89	Harmonic, Logarithmic, and Arithmetic Means and Corollaries. American Mathematical Monthly, 2020, 127, 427-427.	0.3	0
90	Exponential Inequalities and Corollaries. American Mathematical Monthly, 2021, 128, 162-162.	0.3	0

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91	diverges while converges. Mathematical Gazette, 2021, 105, 161-162.	0.0	0
92	HM-LM-AM Inequalities. Mathematics Magazine, 2021, 94, 148-148.	0.1	0
93	Proof without words. Teaching Mathematics and Computer Science, 2004, 2, 207.	0.2	0
94	Proof without words: limit of a recursive sequence. Teaching Mathematics and Computer Science, 2005, 3, 121-122.	0.2	0
95	Proof without words: Knopp series for (pi). Teaching Mathematics and Computer Science, 2006, 4, 451-452.	0.2	0
96	94.18 Proof without words: Two inequalities proved by convexity. Mathematical Gazette, 2010, 94, 306-308.	0.0	0
97	Convergence Speed of Generalized Longest-Edge-Based Refinement. Lecture Notes in Electrical Engineering, 2013, , 511-522.	0.4	0
98	On Numerical Regularity of Trisection-Based Algorithms in 3D. Springer Proceedings in Mathematics and Statistics, 2016, , 371-384.	0.2	0
99	On Zlımal Minimum Angle Condition for the Longest-Edge n-Section Algorithm with nı%ı%ıı%4. Lecture Notes in Computational Science and Engineering, 2019, , 737-742.	0.3	0
100	Similarity classes generated by the 8T-LE partition applied to trirectangular tetrahedra. Journal of Computational and Applied Mathematics, 2022, 409, 114150.	2.0	0
101	Proof without Words: Sum of a Geometric Series via Equal Base Angles in Isosceles Triangles. Mathematics Magazine, 2006, 79, 250.	0.1	0
102	106.24 Proof without words: a Riemann sum. Mathematical Gazette, 2022, 106, 331-331.	0.0	0