

Ángel Plaza

List of Publications by Year in descending order

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102
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all docs

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104
times ranked

314
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Similarity classes generated by the 8T-LE partition applied to trirectangular tetrahedra. Journal of Computational and Applied Mathematics, 2022, 409, 114150. | 2.0 | 0 |
| 2 | 106.07 A function-based proof of the harmonic mean \hat{h} geometric mean \hat{g} arithmetic mean inequalities. Mathematical Gazette, 2022, 106, 130-131. | 0.0 | 1 |
| 3 | 106.24 Proof without words: a Riemann sum. Mathematical Gazette, 2022, 106, 331-331. | 0.0 | 0 |
| 4 | Exponential Inequalities and Corollaries. American Mathematical Monthly, 2021, 128, 162-162. | 0.3 | 0 |
| 5 | diverges while converges. Mathematical Gazette, 2021, 105, 161-162. | 0.0 | 0 |
| 6 | HM-LM-AM Inequalities. Mathematics Magazine, 2021, 94, 148-148. | 0.1 | 0 |
| 7 | 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 |
| 8 | Half Row Sums in Pascal's Triangle. Mathematics Magazine, 2020, 93, 308-308. | 0.1 | 0 |
| 9 | 104.14 More on zero-over-zero limits of special type. Mathematical Gazette, 2020, 104, 310-313. | 0.0 | 0 |
| 10 | 104.22 Proof without Words: Minimum perimeter of an inscribed quadrangle to a square. Mathematical Gazette, 2020, 104, 338-339. | 0.0 | 0 |
| 11 | The 8T-LE partition applied to the obtuse triangulations of the 3D-cube. Mathematics and Computers in Simulation, 2020, 176, 254-265. | 4.4 | 3 |
| 12 | Harmonic, Logarithmic, and Arithmetic Means and Corollaries. American Mathematical Monthly, 2020, 127, 427-427. | 0.3 | 0 |
| 13 | Hamiltonian triangular refinements and space-filling curves. Journal of Computational and Applied Mathematics, 2019, 346, 18-25. | 2.0 | 1 |
| 14 | kth Power of a Partial Sum. American Mathematical Monthly, 2019, 126, 467-467. | 0.3 | 1 |
| 15 | Proof Without Words: The Square of a Sum. Mathematics Magazine, 2019, 92, 17-17. | 0.1 | 1 |
| 16 | On Złimal Minimum Angle Condition for the Longest-Edge n-Section Algorithm with $n \geq 4$. Lecture Notes in Computational Science and Engineering, 2019, , 737-742. | 0.3 | 0 |
| 17 | Proof Without Words: An Alternating Geometric Series. College Mathematics Journal, 2018, 49, 200-200. | 0.1 | 0 |
| 18 | Proof Without Words: Three Arctangent Identities. Mathematics Magazine, 2018, 91, 51-51. | 0.1 | 0 |

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|----|--|-----|-----------|
| 19 | Proof Without Words: Tangent Plus Cotangent is Greater or Equal Than 2. Mathematics Magazine, 2018, 91, 363-363. | 0.1 | 0 |
| 20 | 102.42 Proof without Words: An alternating geometrical series. Mathematical Gazette, 2018, 102, 504-505. | 0.0 | 0 |
| 21 | The Generalized Harmonic Series Diverges by the AM-GM Inequality. Mathematics Magazine, 2018, 91, 217-217. | 0.1 | 0 |
| 22 | Proof Without Words: The Triangle with Maximum Area for a Given Base and Perimeter. College Mathematics Journal, 2017, 48, 51-51. | 0.1 | 0 |
| 23 | Proof Without Words: Sum of a Row in Pascal's Triangle. College Mathematics Journal, 2017, 48, 188-188. | 0.1 | 0 |
| 24 | Proof Without Words: Arctangent of Two and the Golden Ratio. Mathematics Magazine, 2017, 90, 179-179. | 0.1 | 3 |
| 25 | Proof Without Words: Partial Column Sums in Pascal's Triangle. Mathematics Magazine, 2017, 90, 117-118. | 0.1 | 0 |
| 26 | Proof Without Words: A Pascal-Like Triangle With Pell Number Row Sums. College Mathematics Journal, 2017, 48, 346-346. | 0.1 | 0 |
| 27 | Proof Without Words: Arithmetic Mean of Two Means. College Mathematics Journal, 2016, 47, 125-125. | 0.1 | 0 |
| 28 | Proof Without Words: Limit of a Recursive Arithmetic Mean. Mathematics Magazine, 2016, 89, 189-189. | 0.1 | 0 |
| 29 | Proof Without Words: Limit of a Recursive Root Mean Square. Mathematics Magazine, 2016, 89, 177-178. | 0.1 | 0 |
| 30 | 100.38 Proof without words: sum of a numerical series by telescoping. Mathematical Gazette, 2016, 100, 523-523. | 0.0 | 0 |
| 31 | 100.39 An olympiad mathematical problem, proof without words and generalisation. Mathematical Gazette, 2016, 100, 524-525. | 0.0 | 0 |
| 32 | Proof Without Words: Alternating Row Sums in Pascal's Triangle. Mathematics Magazine, 2016, 89, 358-358. | 0.1 | 0 |
| 33 | Proof Without Words: Sum of Triangular Numbers. Mathematics Magazine, 2016, 89, 36-37. | 0.1 | 1 |
| 34 | 100.12 Visual proof of the limit of f-mean recurrence sequences. Mathematical Gazette, 2016, 100, 139-141. | 0.0 | 1 |
| 35 | Proof Without Words: The Parallelogram With Maximum Perimeter for Given Diagonals Is the Rhombus. Mathematics Magazine, 2016, 89, 251-251. | 0.1 | 0 |
| 36 | Proof Without Words: Alternating Row Sums in Pascal's Triangle. Mathematics Magazine, 2016, 89, 281-281. | 0.1 | 0 |

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|----|---|-----|-----------|
| 37 | Longest-edge $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si104.gif" display="inline" overflow="scroll"} \rangle \langle \text{mml:mi} \rangle n \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -section algorithms: Properties and open problems. Journal of Computational and Applied Mathematics, 2016, 293, 139-146. | 2.0 | 10 |
| 38 | On Numerical Regularity of Trisection-Based Algorithms in 3D. Springer Proceedings in Mathematics and Statistics, 2016, , 371-384. | 0.2 | 0 |
| 39 | The Parallelogram with Maximum Perimeter for Given Diagonals Is the Rhombus "A Proof Without Words and a Corollary. Mathematics Magazine, 2015, 88, 360-361. | 0.1 | 1 |
| 40 | On the maximum angle condition for the conforming longest-edge n -section algorithm for large values of n . Computer Aided Geometric Design, 2015, 32, 69-73. | 1.2 | 2 |
| 41 | Proof Without Words: Limit of a Recursive Arithmetic Mean. College Mathematics Journal, 2014, 45, 364-364. | 0.1 | 0 |
| 42 | A mathematical proof of how fast the diameters of a triangle mesh tend to zero after repeated trisection. Mathematics and Computers in Simulation, 2014, 106, 95-108. | 4.4 | 1 |
| 43 | Properties of triangulations obtained by the longest-edge bisection. Open Mathematics, 2014, 12, . | 1.0 | 2 |
| 44 | There are simple and robust refinements (almost) as good as Delaunay. Mathematics and Computers in Simulation, 2014, 106, 84-94. | 4.4 | 3 |
| 45 | 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 |
| 46 | Proof Without Words: Fibonacci Triangles and Trapezoids. Mathematics Magazine, 2013, 86, 55-55. | 0.1 | 0 |
| 47 | Two-sided estimation of diameters reduction rate for the longest edge n -section of triangles with $\langle \text{mml:math altimg="si24.gif" overflow="scroil" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevie. Applied$ | 2.2 | 1 |
| 48 | Convergence Speed of Generalized Longest-Edge-Based Refinement. Lecture Notes in Electrical Engineering, 2013, , 511-522. | 0.4 | 0 |
| 49 | Properties of the longest-edge $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si8.gif" display="inline" overflow="scroll"} \rangle \langle \text{mml:mi} \rangle n \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -section refinement scheme for triangular meshes. Applied Mathematics Letters, 2012, 25, 2037-2039. | 2.7 | 11 |
| 50 | 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 |
| 51 | A local refinement algorithm for the longest-edge trisection of triangle meshes. Mathematics and Computers in Simulation, 2012, 82, 2971-2981. | 4.4 | 6 |
| 52 | 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 |
| 53 | Proof Without Words: Mengoli's Series. Mathematics Magazine, 2010, 83, 140-140. | 0.1 | 0 |
| 54 | On the non-degeneracy property of the longest-edge trisection of triangles. Applied Mathematics and Computation, 2010, 216, 862-869. | 2.2 | 16 |

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|----|---|-----|-----------|
| 55 | 94.18 Proof without words: Two inequalities proved by convexity. <i>Mathematical Gazette</i> , 2010, 94, 306-308. | 0.0 | 0 |
| 56 | Proof Without Words: Bernoulli's Inequality. <i>Mathematics Magazine</i> , 2009, 82, 62-62. | 0.1 | 0 |
| 57 | Binomial Transforms of the k -Fibonacci Sequence. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2009, 10, 1527-1538. | 1.0 | 13 |
| 58 | Local refinement based on the 7-triangle longest-edge partition. <i>Mathematics and Computers in Simulation</i> , 2009, 79, 2444-2457. | 4.4 | 6 |
| 59 | Four-triangles adaptive algorithms for RTIN terrain meshes. <i>Mathematical and Computer Modelling</i> , 2009, 49, 1012-1020. | 2.0 | 10 |
| 60 | On k -Fibonacci sequences and polynomials and their derivatives. <i>Chaos, Solitons and Fractals</i> , 2009, 39, 1005-1019. | 5.1 | 86 |
| 61 | The metallic ratios as limits of complex valued transformations. <i>Chaos, Solitons and Fractals</i> , 2009, 41, 1-13. | 5.1 | 3 |
| 62 | k -Fibonacci sequences modulo m . <i>Chaos, Solitons and Fractals</i> , 2009, 41, 497-504. | 5.1 | 21 |
| 63 | On k -Fibonacci numbers of arithmetic indexes. <i>Applied Mathematics and Computation</i> , 2009, 208, 180-185. | 2.2 | 29 |
| 64 | Proof Without Words: Bernoulli's Inequality. <i>Mathematics Magazine</i> , 2009, 82, 62-62. | 0.1 | 1 |
| 65 | The seven-triangle longest-side partition of triangles and mesh quality improvement. <i>Finite Elements in Analysis and Design</i> , 2008, 44, 748-758. | 3.2 | 11 |
| 66 | The k -Fibonacci hyperbolic functions. <i>Chaos, Solitons and Fractals</i> , 2008, 38, 409-420. | 5.1 | 35 |
| 67 | On the 3-dimensional k -Fibonacci spirals. <i>Chaos, Solitons and Fractals</i> , 2008, 38, 993-1003. | 5.1 | 22 |
| 68 | Combinatorial proofs of Honsberger-type identities. <i>International Journal of Mathematical Education in Science and Technology</i> , 2008, 39, 785-792. | 1.4 | 1 |
| 69 | Identities for generalized Fibonacci numbers: a combinatorial approach. <i>International Journal of Mathematical Education in Science and Technology</i> , 2008, 39, 563-566. | 1.4 | 0 |
| 70 | 92.59 A recurrence relation for Fibonacci sums: a combinatorial approach. <i>Mathematical Gazette</i> , 2008, 92, 480-482. | 0.0 | 0 |
| 71 | A Triangle Inequality and its Elementary Proof. <i>Math Horizons</i> , 2008, 15, 30-30. | 0.0 | 0 |
| 72 | Proof Without Words: Exponential Inequalities. <i>Mathematics Magazine</i> , 2008, 81, 374-374. | 0.1 | 1 |

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|----|--|-----|-----------|
| 73 | Proof Without Words: Alternating Sums of Squares of Odd Numbers. Mathematics Magazine, 2007, 80, 74-75. | 0.1 | 1 |
| 74 | Proof Without Words: Alternating Sum of an Even Number of Triangular Numbers. Mathematics Magazine, 2007, 80, 76-76. | 0.1 | 0 |
| 75 | Proof Without Words: Every Triangle Can Be Subdivided into Six Isosceles Triangles. Mathematics Magazine, 2007, 80, 195-195. | 0.1 | 0 |
| 76 | A geometric diagram and hybrid scheme for triangle subdivision. Computer Aided Geometric Design, 2007, 24, 19-27. | 1.2 | 13 |
| 77 | The eight-tetrahedra longest-edge partition and Kuhn triangulations. Computers and Mathematics With Applications, 2007, 54, 427-433. | 2.7 | 8 |
| 78 | On the Fibonacci k-numbers. Chaos, Solitons and Fractals, 2007, 32, 1615-1624. | 5.1 | 197 |
| 79 | The k-Fibonacci sequence and the Pascal 2-triangle. Chaos, Solitons and Fractals, 2007, 33, 38-49. | 5.1 | 135 |
| 80 | Refinement based on longest-edge and self-similar four-triangle partitions. Mathematics and Computers in Simulation, 2007, 75, 251-262. | 4.4 | 8 |
| 81 | Block-balanced meshes in iterative uniform refinement. Computer Aided Geometric Design, 2006, 23, 684-697. | 1.2 | 0 |
| 82 | Propagation of longest-edge mesh patterns in local adaptive refinement. Communications in Numerical Methods in Engineering, 2006, 24, 543-553. | 1.3 | 10 |
| 83 | Proof without words: Knopp series for (π) . Teaching Mathematics and Computer Science, 2006, 4, 451-452. | 0.2 | 0 |
| 84 | Proof without Words: Sum of a Geometric Series via Equal Base Angles in Isosceles Triangles. Mathematics Magazine, 2006, 79, 250. | 0.1 | 0 |
| 85 | The propagation problem in longest-edge refinement. Finite Elements in Analysis and Design, 2005, 42, 130-151. | 3.2 | 17 |
| 86 | Average adjacencies for tetrahedral skeleton-regular partitions. Journal of Computational and Applied Mathematics, 2005, 177, 141-158. | 2.0 | 4 |
| 87 | Non-degeneracy study of the 8-tetrahedra longest-edge partition. Applied Numerical Mathematics, 2005, 55, 458-472. | 2.1 | 19 |
| 88 | A comparative study between some bisection based partitions in 3D. Applied Numerical Mathematics, 2005, 55, 357-367. | 2.1 | 12 |
| 89 | Fractality of refined triangular grids and space-filling curves. Engineering With Computers, 2005, 20, 323-332. | 6.1 | 7 |
| 90 | Proof without words: limit of a recursive sequence. Teaching Mathematics and Computer Science, 2005, 3, 121-122. | 0.2 | 0 |

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|-----|---|-----|-----------|
| 91 | Adaptive techniques for unstructured nested meshes. Applied Numerical Mathematics, 2004, 51, 565-579. | 2.1 | 1 |
| 92 | The 8-tetrahedra longest-edge partition of right-type tetrahedra. Finite Elements in Analysis and Design, 2004, 41, 253-265. | 3.2 | 11 |
| 93 | Mesh quality improvement and other properties in the four-triangles longest-edge partition. Computer Aided Geometric Design, 2004, 21, 353-369. | 1.2 | 26 |
| 94 | Non-equivalent partitions of d-triangles with Steiner points. Applied Numerical Mathematics, 2004, 49, 415-430. | 2.1 | 1 |
| 95 | Proof without words. Teaching Mathematics and Computer Science, 2004, 2, 207. | 0.2 | 0 |
| 96 | On the adjacencies of triangular meshes based on skeleton-regular partitions. Journal of Computational and Applied Mathematics, 2002, 140, 673-693. | 2.0 | 14 |
| 97 | Graph-based data structures for skeleton-based refinement algorithms. Communications in Numerical Methods in Engineering, 2001, 17, 903-910. | 1.3 | 16 |
| 98 | A 3D refinement/derefinement algorithm for solving evolution problems. Applied Numerical Mathematics, 2000, 32, 401-418. | 2.1 | 25 |
| 99 | Local refinement of simplicial grids based on the skeleton. Applied Numerical Mathematics, 2000, 32, 195-218. | 2.1 | 82 |
| 100 | Application of a nonlinear evolution model to fire propagation. Nonlinear Analysis: Theory, Methods & Applications, 1997, 30, 2873-2882. | 1.1 | 18 |
| 101 | The fractal behaviour of triangular refined/derefinement meshes. Communications in Numerical Methods in Engineering, 1996, 12, 295-302. | 1.3 | 8 |
| 102 | An improved derefinement algorithm of nested meshes. Advances in Engineering Software, 1996, 27, 51-57. | 3.8 | 13 |