Alejandro Zarzo

List of Publications by Year
in descending order

64 papers	1,068 citations	430754 18 h-index	477173 29 g-index
66 all docs	66 docs citations	66 times ranked	500 citing authors

#	Article	IF	Citations
1	Design and analysis of demandâ€adapted railway timetables. Journal of Advanced Transportation, 2014, 48, 119-137.	0.9	102
2	Recurrence relations for connection coefficients between two families of orthogonal polynomials. Journal of Computational and Applied Mathematics, 1995, 62, 67-73.	1.1	60
3	Design of energy-Efficient timetables in two-way railway rapid transit lines. Transportation Research Part B: Methodological, 2017, 102, 142-161.	2.8	59
4	Minimal recurrence relations for connection coefficients between classical orthogonal polynomials: Continuous case. Journal of Computational and Applied Mathematics, 1997, 84, 257-275.	1.1	52
5	Spectral properties of the biconfluent Heun differential equation. Journal of Computational and Applied Mathematics, 1991, 37, 161-169.	1.1	39
6	Early fault detection of single-point rub in gas turbines with accelerometers on the casing based on continuous wavelet transform. Journal of Sound and Vibration, 2020, 487, 115628.	2.1	38
7	Maximum-entropy technique with logarithmic constraints: Estimation of atomic radial densities. European Physical Journal D, 1999, 7, 479-485.	0.6	36
8	Jensen divergence based on Fisherâ€™s information. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 125305.	0.7	29
9	Results for some inversion problems for classical continuous and discrete orthogonal polynomials. Journal of Physics A, 1997, 30, L35-L40.	1.6	27
10	Optimal Train Reallocation Strategies under Service Disruptions. Procedia, Social and Behavioral Sciences, 2012, 54, 402-413.	0.5	27
11	Solving connection and linearization problems within the Askey scheme and its q-analogue via inversion formulas. Journal of Computational and Applied Mathematics, 2001, 133, 151-162.	1.1	26
12	Comparative Analysis of Some Modal Reconstruction Methods of the Shape of the Cornea from Corneal Elevation Data. , 2009, 50, 5639.		25
13	Four-order differential equation satisfied by the associated of any order of all classical orthogonal polynomials. A study of their distribution of zeros. Journal of Computational and Applied Mathematics, 1993, 49, 349-359.	1.1	21
14	Minimal recurrence relations for connection coefficients between classical orthogonal polynomials: Discrete case. Journal of Computational and Applied Mathematics, 1997, 87, 321-337.	1.1	21
15	Inversion Problems in theq-Hahn Tableau. Journal of Symbolic Computation, 1999, 28, 767-776.	0.5	20
16	Fisher information of special functions and second-order differential equations. Journal of Mathematical Physics, 2008, 49, 082104.	0.5	20
17	RÃ©nyi entropies, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mi>q</mml:mi></mml... norms and linearization of powers of hypergeometric orthogonal polynomials by means of multivariate special functions. Applied Mathematics and Computation, 2013, 223, 25-33.	1.4	20
18	Bivariate second-order linear partial differential equations and orthogonal polynomial solutions. Journal of Mathematical Analysis and Applications, 2012, 387, 1188-1208.	0.5	19

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19	Recurrence relation approach for connection coefficients. Applications to classical discrete orthogonal polynomials. CRM Proceedings & Lecture Notes, 1996, , 319-335.	0.1	18
20	On the limit relations between classical continuous and discrete orthogonal polynomials. Journal of Computational and Applied Mathematics, 1998, 91, 97-105.	1.1	17
21	Confrontation of Different Objectives in the determination of train scheduling. Procedia, Social and Behavioral Sciences, 2011, 20, 302-312.	0.5	17
22	Maximum-entropy analysis of the electron-pair density in many-electron systems. Physical Review A, 1994, 50, 240-246.	1.0	16
23	Transverse limits in the Askey tableau. Journal of Computational and Applied Mathematics, 1998, 99, 327-335.	1.1	16
24	Hypergeometric-type differential equations: second kind solutions and related integrals. Journal of Computational and Applied Mathematics, 2003, 157, 93-106.	1.1	16
25	Upper and lower bounds on the radial electron density in atoms. Physical Review A, 1993, 48, 4149-4155.	1.0	14
26	Fourth-order differential equations satisfied by the generalized co-recursive of all classical orthogonal polynomials. A study of their distribution of zeros. Journal of Computational and Applied Mathematics, 1995, 59, 295-328.	1.1	14
27	Title is missing!. Numerical Algorithms, 2000, 23, 31-50.	1.1	14
28	Classical symmetric orthogonal polynomials of a discrete variable. Integral Transforms and Special Functions, 2004, 15, 1-12.	0.8	14
29	The quantum relativistic harmonic oscillator: Spectrum of zeros of its wave functions. Journal of Mathematical Physics, 1993, 34, 2926-2935.	0.5	13
30	Spectral properties of solutions of hypergeometric-type differential equations. Journal of Computational and Applied Mathematics, 1994, 50, 613-623.	1.1	13
31	Classical orthogonal polynomials: dependence of parameters. Journal of Computational and Applied Mathematics, 2000, 121, 95-112.	1.1	13
32	A methodology for schedule†based paths recommendation in multimodal public transportation networks. Journal of Advanced Transportation, 2013, 47, 319-335.	0.9	13
33	Macroscopic attraction-based simulation of pedestrian mobility: A dynamic individual route-choice approach. European Journal of Operational Research, 2013, 231, 428-442.	3.5	12
34	Bernstein bases and hahn†"eberlein orthogonal polynomials. Integral Transforms and Special Functions, 1998, 7, 87-96.	0.8	11
35	WKB approach to zero distribution of solutions of linear second order differential equations. Journal of Computational and Applied Mathematics, 2002, 145, 167-182.	1.1	11
36	Hypergeometric type q-difference equations: Rodrigues type representation for the second kind solution. Journal of Computational and Applied Mathematics, 2005, 173, 81-92.	1.1	11

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37	Four-term recurrence relations of hypergeometric-type polynomials. Il Nuovo Cimento B, 1994, 109, 725-733.	0.1	10
38	Connection problems for polynomial solutions of nonhomogeneous differential and difference equations. Journal of Computational and Applied Mathematics, 1998, 99, 177-187.	1.1	10
39	Railway Rapid Transit Timetables with Variable and Elastic Demand. Procedia, Social and Behavioral Sciences, 2014, 111, 538-548.	0.5	8
40	Evaluation of the Continuous Wavelet Transform for Detection of Single-Point Rub in Aeroderivative Gas Turbines with Accelerometers. Sensors, 2018, 18, 1931.	2.1	8
41	Maximum-entropy analysis of one-particle densities in atoms. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1996, 37, 295-299.	1.0	7
42	Perturbations of discrete semiclassical functionals by dirac masses. Integral Transforms and Special Functions, 1997, 5, 19-46.	0.8	7
43	Maximum-entropy analysis of momentum densities in diatomic molecules. International Journal of Quantum Chemistry, 1997, 61, 77-83.	1.0	7
44	Fourth-order difference equation for the first associated of classical discrete orthogonal polynomials. Journal of Computational and Applied Mathematics, 1998, 90, 45-50.	1.1	7
45	Compton profiles and momentum space inequalities. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1993, 28, 269-273.	1.0	6
46	A study of the atomic momentum density by means of radial expectation values. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 4663-4669.	0.6	6
47	Classical discrete orthogonal polynomials, Lah numbers, and involutory matrices. Applied Mathematics Letters, 2003, 16, 383-387.	1.5	6
48	Higher order hypergeometric Lauricella function and zero asymptotics of orthogonal polynomials. Journal of Computational and Applied Mathematics, 2010, 233, 1577-1583.	1.1	6
49	Newton sum rules of zeros of semiclassical orthogonal polynomials. Journal of Computational and Applied Mathematics, 1990, 33, 85-96.	1.1	5
50	Reciprocal form factors from momentum density magnitudes. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 5629-5635.	0.6	5
51	Extensions of some results of P. Humbert on Bezout's identity for classical orthogonal polynomials. Journal of Computational and Applied Mathematics, 2006, 196, 212-228.	1.1	5
52	Rigorous bounds to the atomic ionization potential. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, L431-L435.	0.6	4
53	Orthogonal polynomials and differential equations in neutron-transport and radiative-transfer theories. Journal of Computational and Applied Mathematics, 1994, 50, 197-206.	1.1	4
54	Maximum-entropy analysis of atomic compton profiles. International Journal of Quantum Chemistry, 1995, 56, 747-752.	1.0	4

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55	Tight approximations to total scattering intensities from electron-pair density quantities. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 230, 324-329.	0.9	4
56	Lanczos Method and the Density of States of Many-Fermion Systems. Europhysics Letters, 1989, 8, 589-593.	0.7	3
57	Algebraic and spectral properties of some quasiorthogonal polynomials encountered in quantum radiation. Journal of Mathematical Physics, 1995, 36, 5179-5197.	0.5	3
58	General recurrence and ladder relations of hypergeometric-type functions. Journal of Computational and Applied Mathematics, 2007, 207, 166-179.	1.1	3
59	Bivariate Krawtchouk polynomials: Inversion and connection problems with the NAVIMA algorithm. Journal of Computational and Applied Mathematics, 2015, 284, 50-57.	1.1	3
60	Synchronous Machines Field Winding Turn-to-Turn fault severity estimation through Machine Learning Regression Algorithms. IEEE Transactions on Energy Conversion, 2022, , 1-1.	3.7	3
61	Decomposition of Polynomials with Respect to the Cyclic Group of Order$m$. Journal of Symbolic Computation, 1999, 28, 755-765.	0.5	2
62	Improvement of the accuracy of nonlinear rotordynamic models by means of the use of non-white fluid-induced signal noise. Mechanical Systems and Signal Processing, 2021, 149, 107308.	4.4	2
63	Maximum-entropy and Padé-like approximations to atomic scattering factors. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1997, 41, 175-179.	1.0	1
64	ORTHOGONAL POLYNOMIALS AND THE BEZOUT IDENTITY. , 2007, , .		0