

Paolo Amore

List of Publications by Year in descending order

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109
papers

954
citations

516710

16
h-index

526287

27
g-index

112
all docs

112
docs citations

112
times ranked

472
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved Lindstedt's Poincaré method for the solution of nonlinear problems. <i>Journal of Sound and Vibration</i> , 2005, 283, 1115-1136.	3.9	93
2	Color superconductivity in finite systems. <i>Physical Review D</i> , 2002, 65, .	4.7	43
3	Presenting a new method for the solution of nonlinear problems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 316, 218-225.	2.1	39
4	Exact and approximate expressions for the period of anharmonic oscillators. <i>European Journal of Physics</i> , 2005, 26, 589-601.	0.6	38
5	Analytical formulas for gravitational lensing. <i>Physical Review D</i> , 2006, 73, .	4.7	38
6	Collocation method for fractional quantum mechanics. <i>Journal of Mathematical Physics</i> , 2010, 51, .	1.1	38
7	Alternative perturbation approaches in classical mechanics. <i>European Journal of Physics</i> , 2005, 26, 1057-1063.	0.6	37
8	A variational sinc collocation method for strong-coupling problems. <i>Journal of Physics A</i> , 2006, 39, L349-L355.	1.6	34
9	Asymptotic and exact series representations for the incomplete Gamma function. <i>Europhysics Letters</i> , 2005, 71, 1-7.	2.0	31
10	Analytical formulas for gravitational lensing: Higher order calculation. <i>Physical Review D</i> , 2006, 74, .	4.7	30
11	Solving the Helmholtz equation for membranes of arbitrary shape: numerical results. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 265206.	2.1	28
12	Comparison of alternative improved perturbative methods for nonlinear oscillations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 340, 201-208.	2.1	22
13	Accurate calculation of the solutions to the Thomas-Fermi equations. <i>Applied Mathematics and Computation</i> , 2014, 232, 929-943.	2.2	19
14	Spectroscopy of drums and quantum billiards: Perturbative and nonperturbative results. <i>Journal of Mathematical Physics</i> , 2010, 51, 052105.	1.1	18
15	Variational collocation on finite intervals. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 13047-13062.	2.1	17
16	High order analysis of nonlinear periodic differential equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 327, 158-166.	2.1	16
17	Convergence acceleration of series through a variational approach. <i>Journal of Mathematical Analysis and Applications</i> , 2006, 323, 63-77.	1.0	15
18	Gravitational lensing from compact bodies: Analytical results for strong and weak deflection limits. <i>Physical Review D</i> , 2007, 75, .	4.7	15

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19	On some conditionally solvable quantum-mechanical problems. <i>Physica Scripta</i> , 2020, 95, 105201.	2.5	15
20	Pion dispersion relation at finite density and temperature. <i>Physical Review C</i> , 2002, 66, .	2.9	14
21	Comment on an application of the asymptotic iteration method to a perturbed Coulomb model. <i>Journal of Physics A</i> , 2006, 39, 10491-10497.	1.6	14
22	A new method for the solution of the Schrödinger equation. <i>Journal of Physics A</i> , 2004, 37, 3515-3525.	1.6	13
23	Systematic perturbation calculation of integrals with applications to physics. <i>Physical Review E</i> , 2005, 71, 016704.	2.1	13
24	The period of a classical oscillator. <i>Europhysics Letters</i> , 2005, 70, 425-431.	2.0	13
25	Mathematical analysis of recent analytical approximations to the collapse of an empty spherical bubble. <i>Journal of Chemical Physics</i> , 2013, 138, 084511.	3.0	13
26	High order analysis of the limit cycle of the van der Pol oscillator. <i>Journal of Mathematical Physics</i> , 2018, 59, .	1.1	11
27	A new method for studying the vibration of non-homogeneous membranes. <i>Journal of Sound and Vibration</i> , 2009, 321, 104-114.	3.9	10
28	Collocation on uniform grids. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 115302.	2.1	10
29	One-dimensional oscillator in a box. <i>European Journal of Physics</i> , 2010, 31, 69-77.	0.6	10
30	Is space-time symmetry a suitable generalization of parity-time symmetry?. <i>Annals of Physics</i> , 2014, 350, 533-548.	2.8	10
31	A new approximation method for time-dependent problems in quantum mechanics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 340, 87-93.	2.1	9
32	Bound states in open-coupled asymmetrical waveguides and quantum wires. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 105303.	2.1	9
33	Alternative representation for nonlocal operators and path integrals. <i>Physical Review A</i> , 2007, 75, .	2.5	8
34	The string of variable density: Perturbative and non-perturbative results. <i>Annals of Physics</i> , 2010, 325, 2679-2696.	2.8	8
35	Variational collocation for systems of coupled anharmonic oscillators. <i>Physica Scripta</i> , 2010, 81, 045011.	2.5	8
36	Spectroscopy of annular drums and quantum rings: Perturbative and nonperturbative results. <i>Journal of Mathematical Physics</i> , 2011, 52, 063516.	1.1	8

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37	Accurate calculation of the complex eigenvalues of the Schrödinger equation with an exponential potential. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 3149-3152.	2.1	7
38	Rayleigh-Ritz variation method and connected-moments expansions. <i>Physica Scripta</i> , 2009, 80, 055002.	2.5	7
39	The string of variable density: Further results. <i>Annals of Physics</i> , 2011, 326, 2315-2355.	2.8	7
40	Bound states for the quantum dipole moment in two dimensions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 235004.	1.5	7
41	Exact sum rules for inhomogeneous drums. <i>Annals of Physics</i> , 2013, 336, 223-244.	2.8	7
42	Exact sum rules for inhomogeneous strings. <i>Annals of Physics</i> , 2013, 338, 341-360.	2.8	7
43	Non-Hermitian oscillators with T -symmetry. <i>Annals of Physics</i> , 2015, 353, 238-251.	2.8	7
44	High order eigenvalues for the Helmholtz equation in complicated non-tensor domains through Richardson extrapolation of second order finite differences. <i>Journal of Computational Physics</i> , 2016, 312, 252-271.	3.8	7
45	An ubiquitous three-term recurrence relation. <i>Journal of Mathematical Physics</i> , 2021, 62, 032106.	1.1	7
46	Comparative study of quantum anharmonic potentials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 329, 451-458.	2.1	6
47	Comment on "Thomson rings in a disk". <i>Physical Review E</i> , 2017, 95, 026601.	2.1	6
48	Thomson problem in one dimension: Minimal energy configurations of N charges on a curve. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 519, 256-266.	2.6	6
49	Exceptional points of the eigenvalues of parameter-dependent Hamiltonian operators. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	6
50	Alternative implementation of Padé approximants. <i>Physical Review D</i> , 2007, 76, .	4.7	5
51	Development of accurate solutions for a classical oscillator. <i>Journal of Sound and Vibration</i> , 2007, 300, 345-351.	3.9	5
52	Can one hear the density of a drum? Weyl's law for inhomogeneous media. <i>Europhysics Letters</i> , 2010, 92, 10006.	2.0	5
53	Collocation approach to the Helmholtz eigenvalue problem on multiply connected domains. <i>Journal of Sound and Vibration</i> , 2010, 329, 1362-1375.	3.9	5
54	A perturbative approach to the spectral zeta functions of strings, drums, and quantum billiards. <i>Journal of Mathematical Physics</i> , 2012, 53, 123519.	1.1	5

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55	Relativistic Hamiltonians in many-body theories. <i>Physical Review C</i> , 1996, 53, 2801-2808.	2.9	4
56	One-loop integrals at finite temperature. <i>Journal of Physics A</i> , 2005, 38, 6463-6472.	1.6	4
57	Exact sum rules for inhomogeneous systems containing a zero mode. <i>Annals of Physics</i> , 2014, 349, 253-267.	2.8	4
58	Quantum particles in a moving potential. <i>Physica Scripta</i> , 2020, 95, 065405.	2.5	4
59	Inversion of the perturbation series. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 025201.	2.1	3
60	Further analysis of the connected moments expansion. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 505302.	2.1	3
61	One cannot hear the density of a drum (and further aspects of isospectrality). <i>Physical Review E</i> , 2013, 88, 042915.	2.1	3
62	On the application of the Lindstedt-Poincaré method to the Lotka-Volterra system. <i>Annals of Physics</i> , 2018, 396, 293-303.	2.8	3
63	Computing the solutions of the van der Pol equation to arbitrary precision. <i>Physica D: Nonlinear Phenomena</i> , 2022, 435, 133279.	2.8	3
64	Quark distribution functions in nuclear matter. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2001, 27, 1905-1915.	3.6	2
65	Contrasting and parity-violating asymmetries in nuclei. <i>Nuclear Physics A</i> , 2001, 690, 509-534.	1.5	2
66	Colour Superconductivity in Finite Systems. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2002, 16, 163-168.	0.4	2
67	Dispersion relation of the nonlinear Klein-Gordon equation through a variational method. <i>Chaos</i> , 2006, 16, 013131.	2.5	2
68	Comment on "Quantization of Friedmann-Robertson-Walker spacetimes in the presence of a negative cosmological constant and radiation". <i>Physical Review D</i> , 2007, 75, .	4.7	2
69	Eigenvalues from power-series expansions: an alternative approach. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 075201.	2.1	2
70	Comment on "Coupled anharmonic oscillators: the Raileigh-Ritz approach versus the collocation approach". <i>Physica Scripta</i> , 2011, 83, 047003.	2.5	2
71	Accurate calculation of the bound states of the quantum dipole problem in two dimensions. <i>Open Physics</i> , 2012, 10, .	1.7	2
72	Comment on "Numerical estimates of the spectrum for anharmonic PT symmetric potentials". <i>Physica Scripta</i> , 2013, 87, 047001.	2.5	2

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73	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si32.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi mathvariant="script" \rangle PT \langle /mml:mi \rangle \langle /mml:math \rangle$ -symmetric strings. Annals of Physics, 2014, 343, 61-71.	2.8	2
74	Weakly bound states in heterogeneous waveguides. European Physical Journal B, 2016, 89, 1.	1.5	2
75	Perturbation theory for short-range weakly-attractive potentials in one dimension. Annals of Physics, 2017, 378, 253-263.	2.8	2
76	The harmonic oscillator in a space with a screw dislocation. Annals of Physics, 2018, 388, 235-240.	2.8	2
77	Analytical approximations to the spectra of quark-antiquark potentials. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 1061-1071.	3.6	1
78	The virial theorem for nonlinear problems. European Journal of Physics, 2009, 30, L65-L66.	0.6	1
79	High-order connected moments expansion for the Rabi Hamiltonian. Open Physics, 2012, 10, .	1.7	1
80	Accurate calculation of the eigenvalues of non-uniform strings and membranes. Open Physics, 2012, 10, .	1.7	1
81	Solution to the equations of the moment expansions. Open Physics, 2013, 11, .	1.7	1
82	HETEROGENEOUS SYSTEMS IN DIMENSIONS: LOWER SPECTRUM. ANZIAM Journal, 2015, 57, 150-165.	0.2	1
83	On the symmetry of three identical interacting particles in a one-dimensional box. Annals of Physics, 2015, 362, 118-129.	2.8	1
84	BOUND STATES IN WEAKLY DEFORMED WAVEGUIDES: NUMERICAL VERSUS ANALYTICAL RESULTS. ANZIAM Journal, 2017, 59, 200-214.	0.2	1
85	A quantum-mechanical anharmonic oscillator with a most interesting spectrum. Annals of Physics, 2017, 385, 1-9.	2.8	1
86	Remark on Landau quantization, Aharonov-Bohm effect and two-dimensional pseudoharmonic quantum dot around a screw dislocation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 139-140.	2.1	1
87	Exact sum rules for quantum billiards of arbitrary shape. Annals of Physics, 2018, 388, 12-25.	2.8	1
88	On the straightforward perturbation theory in classical mechanics. European Journal of Physics, 2018, 39, 055001.	0.6	1
89	Weakly (and not so weakly) bound states of a relativistic particle in one dimension. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2097-2102.	2.1	1
90	On a model for rotational tunneling with a S_6 -space-time symmetric analog. Journal of Mathematical Chemistry, 2019, 57, 1840-1849.	1.5	1

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91	Spectral sum rules for the Schrödinger equation. <i>Annals of Physics</i> , 2020, 423, 168334.	2.8	1
92	On the Hellmann-Feynman theorem in statistical mechanics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126531.	2.1	1
93	Comment on: "Bidimensional bound states for charged polar nanoparticles". <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	1.9	1
94	Gross misinterpretation of a conditionally solvable eigenvalue equation. <i>International Journal of Modern Physics A</i> , 2020, 35, 2050200.	1.5	1
95	High order analysis of nonlinear periodic differential equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 327, 158-158.	2.1	0
96	Wronskian perturbation theory. <i>European Physical Journal A</i> , 2007, 32, 109-112.	2.5	0
97	Dalgarno-Lewis perturbation theory for scattering states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 367, 182-187.	2.1	0
98	Particle correlation from uncorrelated non Born-Oppenheimer SCF wavefunctions. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 1023-1035.	1.5	0
99	Comment on: "PT-/non-PT-symmetric and non-Hermitian Hellmann potential: approximate bound and scattering states with any η -values". <i>Physica Scripta</i> , 2015, 90, 087001.	2.5	0
100	Small-energy series for one-dimensional quantum-mechanical models with non-symmetric potentials. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 1351-1362.	1.5	0
101	Comment on: "Ground state energies from converging and diverging power series expansions". <i>Ann. Phys.</i> 373 (2016) 456-469. <i>Annals of Physics</i> , 2017, 376, 499-504.	2.8	0
102	Spectral algorithms for multiple scale localized eigenfunctions in infinitely long, slightly bent quantum waveguides. <i>Computer Physics Communications</i> , 2018, 224, 209-221.	7.5	0
103	Isospectral heterogeneous domains: A numerical study. <i>Journal of Computational Physics: X</i> , 2019, 1, 100018.	0.7	0
104	Exact sum rules for heterogeneous spherical drums. <i>Annals of Physics</i> , 2020, 412, 168041.	2.8	0
105	Energy levels of a coupled-rotors model. <i>Journal of Mathematical Chemistry</i> , 2021, 59, 161-167.	1.5	0
106	Comments on two conditionally solvable quantum-mechanical models. <i>International Journal of Modern Physics C</i> , 0, , .	1.7	0
107	The IX Mexican Workshop on Particles and Fields. <i>Journal of Physics: Conference Series</i> , 2006, 37, .	0.4	0
108	Heterogeneous systems in d dimensions: lower spectrum. <i>ANZIAM Journal</i> , 0, 57, 150.	0.0	0

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109	Bound states in weakly deformed waveguides: numerical versus analytical results. ANZIAM Journal, 0, 59, 200.	0.0	0