

Hasan Taseli

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39
papers

319
citations

11
h-index

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41
ext. papers

330
ext. citations

2.5
avg, IF

3.29
L-index

#	Paper	IF	Citations
39	Exact solutions for vibrational levels of the Morse potential. <i>Journal of Physics A</i> , 1998 , 31, 779-788		26
38	Accurate computation of the energy spectrum for potentials with multimima. <i>International Journal of Quantum Chemistry</i> , 1993 , 46, 319-333	2.1	24
37	Studies on algebraic methods to solve linear eigenvalue problems: generalised anharmonic oscillators. <i>Journal of Physics A</i> , 1988 , 21, 3903-3919		22
36	The influence of the boundedness of polynomial potentials on the spectrum of the Schrödinger equation. <i>Journal of Computational Physics</i> , 1992 , 101, 252-255	4.1	17
35	Eigenvalues of the two-dimensional Schrödinger equation with nonseparable potentials. <i>International Journal of Quantum Chemistry</i> , 1996 , 59, 183-201	2.1	15
34	Converging bounds for the eigenvalues of multimima potentials in two-dimensional space. <i>Journal of Physics A</i> , 1996 , 29, 6967-6982		14
33	A Fourier-Bessel expansion for solving radial Schrödinger equation in two dimensions. <i>International Journal of Quantum Chemistry</i> , 1997 , 61, 759-768	2.1	14
32	Modified Laguerre basis for hydrogen-like systems. <i>International Journal of Quantum Chemistry</i> , 1997 , 63, 949-959	2.1	14
31	Bessel basis with applications: N-dimensional isotropic polynomial oscillators. <i>International Journal of Quantum Chemistry</i> , 1997 , 63, 935-947	2.1	11
30	Accurate lower and upper bounds of the energy spectrum for the asymmetrical two-well potentials. <i>International Journal of Quantum Chemistry</i> , 1996 , 60, 641-648	2.1	11
29	An alternative series solution to the isotropic quartic oscillator in N dimensions. <i>Journal of Mathematical Chemistry</i> , 1996 , 20, 235-245	2.1	11
28	The Laguerre pseudospectral method for the radial Schrödinger equation. <i>Applied Numerical Mathematics</i> , 2015 , 87, 87-99	2.5	10
27	An Eigenfunction Expansion for the Schrödinger Equation with Arbitrary Non-Central Potentials. <i>Journal of Mathematical Chemistry</i> , 2002 , 32, 323-338	2.1	10
26	On the exact solution of the Schrödinger equation with a quartic anharmonicity. <i>International Journal of Quantum Chemistry</i> , 1996 , 57, 63-71	2.1	10
25	Upflow column reactor design for dechlorination of chlorinated pulping wastes by <i>Penicillium camemberti</i> . <i>Journal of Environmental Management</i> , 2004 , 72, 175-9	7.9	9
24	Exact Analytical Solutions of the Hamiltonian with a Squared Tangent Potential. <i>Journal of Mathematical Chemistry</i> , 2003 , 34, 243-251	2.1	9
23	Two-sided eigenvalue bounds for the spherically symmetric states of the Schrödinger equation. <i>Journal of Computational and Applied Mathematics</i> , 1998 , 95, 83-100	2.4	8

22	The Scaled Hermite-Weber Basis Still Highly Competitive. <i>Journal of Mathematical Chemistry</i> , 2003 , 34, 177-187	2.1	8
21	The scaled Hermite-Weber basis in the spectral and pseudospectral pictures. <i>Journal of Mathematical Chemistry</i> , 2005 , 38, 367-378	2.1	8
20	Accurate numerical bounds for the spectral points of singular Sturm-Liouville problems over \mathbb{R} . <i>Journal of Computational and Applied Mathematics</i> , 2000 , 115, 535-546	2.4	8
19	Convergent perturbation studies in screened coulomb potential systems: analytic evaluations up to third order for the Yukawa case. <i>Theoretica Chimica Acta</i> , 1987 , 71, 315-325		8
18	Pseudospectral methods for solving an equation of hypergeometric type with a perturbation. <i>Journal of Computational and Applied Mathematics</i> , 2010 , 234, 1140-1152	2.4	7
17	Drag minimization in stokes flow. <i>International Journal of Engineering Science</i> , 1989 , 27, 633-640	5.7	7
16	Convergent perturbation studies in screened coulomb potential systems: a high precision numerical algorithm via Laguerre basis set. <i>Theoretica Chimica Acta</i> , 1988 , 74, 39-54		6
15	The Laguerre Pseudospectral Method for the Reflection Symmetric Hamiltonians on the Real Line. <i>Journal of Mathematical Chemistry</i> , 2007 , 41, 407-416	2.1	5
14	A model for the computation of quantum billiards with arbitrary shapes. <i>Journal of Computational and Applied Mathematics</i> , 2006 , 194, 227-244	2.4	5
13	Accurate numerical bounds for the spectral points of singular Sturm-Liouville problems over \mathbb{R} . <i>Journal of Computational and Applied Mathematics</i> , 2004 , 164-165, 707-722	2.4	4
12	Inverse Sturm-Liouville problems with pseudospectral methods. <i>International Journal of Computer Mathematics</i> , 2015 , 92, 1373-1384	1.2	3
11	Unification of Stieltjes-Calogero type relations for the zeros of classical orthogonal polynomials. <i>Mathematical Methods in the Applied Sciences</i> , 2015 , 38, 3118-3129	2.3	3
10	The confined system approximation for solving non-separable potentials in three dimensions. <i>Journal of Physics A</i> , 1998 , 31, 3095-3114		3
9	A basis set comparison in a variational scheme for the Yukawa potential. <i>Journal of Mathematical Chemistry</i> , 1992 , 11, 311-323	2.1	3
8	A new approach to the classical Stokes flow problem: Part I Methodology and first-order analytical results. <i>Journal of Computational and Applied Mathematics</i> , 1997 , 78, 213-232	2.4	2
7	Comment on "Strongly convergent method to solve one-dimensional quantum problems" <i>Physical Review E</i> , 1997 , 56, 1280-1282	2.4	1
6	A new approach to the classical Stokes flow problem: Part II Series solutions and higher-order applications. <i>Journal of Computational and Applied Mathematics</i> , 1997 , 78, 233-254	2.4	1
5	A Class of Orthogonal Polynomials Suggested by a Trigonometric Hamiltonian: Symmetric States. <i>Journal of Mathematical Chemistry</i> , 2004 , 36, 1-12	2.1	1

- 4 On the special values of monic polynomials of hypergeometric type. *Journal of Mathematical Chemistry*, **2008**, 43, 237-251 2.1
- 3 A class of orthogonal polynomials suggested by a trigonometric Hamiltonian: Antisymmetric states. *Journal of Mathematical Chemistry*, **2005**, 37, 377-388 2.1
- 2 Singular inverse Sturm-Liouville problems with Hermite pseudospectral methods. *European Physical Journal Plus*, **2021**, 136, 1 3.1
- 1 A Rayleigh-Ritz Method for Numerical Solutions of Linear Fredholm Integral Equations of the Second Kind. *Journal of Mathematical Chemistry*, **2022**, 60, 1107 2.1