

# Hasan Taseli

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39  
papers

319  
citations

11  
h-index

15  
g-index

41  
ext. papers

330  
ext. citations

2.5  
avg, IF

3.29  
L-index

#	Paper	IF	Citations
39	A Rayleigh-Ritz Method for Numerical Solutions of Linear Fredholm Integral Equations of the Second Kind. <i>Journal of Mathematical Chemistry</i> , <b>2022</b> , 60, 1107	2.1	
38	Singular inverse Sturm-Liouville problems with Hermite pseudospectral methods. <i>European Physical Journal Plus</i> , <b>2021</b> , 136, 1	3.1	
37	The Laguerre pseudospectral method for the radial Schrödinger equation. <i>Applied Numerical Mathematics</i> , <b>2015</b> , 87, 87-99	2.5	10
36	Inverse Sturm-Liouville problems with pseudospectral methods. <i>International Journal of Computer Mathematics</i> , <b>2015</b> , 92, 1373-1384	1.2	3
35	Unification of Stieltjes-Calogero type relations for the zeros of classical orthogonal polynomials. <i>Mathematical Methods in the Applied Sciences</i> , <b>2015</b> , 38, 3118-3129	2.3	3
34	Pseudospectral methods for solving an equation of hypergeometric type with a perturbation. <i>Journal of Computational and Applied Mathematics</i> , <b>2010</b> , 234, 1140-1152	2.4	7
33	On the special values of monic polynomials of hypergeometric type. <i>Journal of Mathematical Chemistry</i> , <b>2008</b> , 43, 237-251	2.1	
32	The Laguerre Pseudospectral Method for the Reflection Symmetric Hamiltonians on the Real Line. <i>Journal of Mathematical Chemistry</i> , <b>2007</b> , 41, 407-416	2.1	5
31	A model for the computation of quantum billiards with arbitrary shapes. <i>Journal of Computational and Applied Mathematics</i> , <b>2006</b> , 194, 227-244	2.4	5
30	A class of orthogonal polynomials suggested by a trigonometric Hamiltonian: Antisymmetric states. <i>Journal of Mathematical Chemistry</i> , <b>2005</b> , 37, 377-388	2.1	
29	The scaled Hermite-Weber basis in the spectral and pseudospectral pictures. <i>Journal of Mathematical Chemistry</i> , <b>2005</b> , 38, 367-378	2.1	8
28	A Class of Orthogonal Polynomials Suggested by a Trigonometric Hamiltonian: Symmetric States. <i>Journal of Mathematical Chemistry</i> , <b>2004</b> , 36, 1-12	2.1	1
27	Accurate numerical bounds for the spectral points of singular Sturm-Liouville problems over 0. <i>Journal of Computational and Applied Mathematics</i> , <b>2004</b> , 164-165, 707-722	2.4	4
26	Upflow column reactor design for dechlorination of chlorinated pulping wastes by <i>Penicillium camemberti</i> . <i>Journal of Environmental Management</i> , <b>2004</b> , 72, 175-9	7.9	9
25	The Scaled Hermite-Weber Basis Still Highly Competitive. <i>Journal of Mathematical Chemistry</i> , <b>2003</b> , 34, 177-187	2.1	8
24	Exact Analytical Solutions of the Hamiltonian with a Squared Tangent Potential. <i>Journal of Mathematical Chemistry</i> , <b>2003</b> , 34, 243-251	2.1	9
23	An Eigenfunction Expansion for the Schrödinger Equation with Arbitrary Non-Central Potentials. <i>Journal of Mathematical Chemistry</i> , <b>2002</b> , 32, 323-338	2.1	10

22	Accurate numerical bounds for the spectral points of singular Sturm-Liouville problems over $\mathbb{R}$ <i>Journal of Computational and Applied Mathematics</i> , <b>2000</b> , 115, 535-546	2.4	8
21	Two-sided eigenvalue bounds for the spherically symmetric states of the Schrödinger equation. <i>Journal of Computational and Applied Mathematics</i> , <b>1998</b> , 95, 83-100	2.4	8
20	Exact solutions for vibrational levels of the Morse potential. <i>Journal of Physics A</i> , <b>1998</b> , 31, 779-788		26
19	The confined system approximation for solving non-separable potentials in three dimensions. <i>Journal of Physics A</i> , <b>1998</b> , 31, 3095-3114		3
18	Comment on "Strongly convergent method to solve one-dimensional quantum problems" <i>Physical Review E</i> , <b>1997</b> , 56, 1280-1282	2.4	1
17	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> , <b>1997</b> , 78, 213-232	2.4	2
16	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> , <b>1997</b> , 78, 233-254	2.4	1
15	A Fourier-Bessel expansion for solving radial Schrödinger equation in two dimensions. <i>International Journal of Quantum Chemistry</i> , <b>1997</b> , 61, 759-768	2.1	14
14	Bessel basis with applications: N-dimensional isotropic polynomial oscillators. <i>International Journal of Quantum Chemistry</i> , <b>1997</b> , 63, 935-947	2.1	11
13	Modified Laguerre basis for hydrogen-like systems. <i>International Journal of Quantum Chemistry</i> , <b>1997</b> , 63, 949-959	2.1	14
12	Converging bounds for the eigenvalues of multiminima potentials in two-dimensional space. <i>Journal of Physics A</i> , <b>1996</b> , 29, 6967-6982		14
11	On the exact solution of the Schrödinger equation with a quartic anharmonicity. <i>International Journal of Quantum Chemistry</i> , <b>1996</b> , 57, 63-71	2.1	10
10	Eigenvalues of the two-dimensional Schrödinger equation with nonseparable potentials. <i>International Journal of Quantum Chemistry</i> , <b>1996</b> , 59, 183-201	2.1	15
9	Accurate lower and upper bounds of the energy spectrum for the asymmetrical two-well potentials. <i>International Journal of Quantum Chemistry</i> , <b>1996</b> , 60, 641-648	2.1	11
8	An alternative series solution to the isotropic quartic oscillator in N dimensions. <i>Journal of Mathematical Chemistry</i> , <b>1996</b> , 20, 235-245	2.1	11
7	Accurate computation of the energy spectrum for potentials with multiminima. <i>International Journal of Quantum Chemistry</i> , <b>1993</b> , 46, 319-333	2.1	24
6	A basis set comparison in a variational scheme for the Yukawa potential. <i>Journal of Mathematical Chemistry</i> , <b>1992</b> , 11, 311-323	2.1	3
5	The influence of the boundedness of polynomial potentials on the spectrum of the Schrödinger equation. <i>Journal of Computational Physics</i> , <b>1992</b> , 101, 252-255	4.1	17

- 4 Drag minimization in stokes flow. *International Journal of Engineering Science*, **1989**, 27, 633-640 5-7 7
- 3 Convergent perturbation studies in screened coulomb potential systems: a high precision numerical algorithm via Laguerre basis set. *Theoretica Chimica Acta*, **1988**, 74, 39-54 6
- 2 Studies on algebraic methods to solve linear eigenvalue problems: generalised anharmonic oscillators. *Journal of Physics A*, **1988**, 21, 3903-3919 22
- 1 Convergent perturbation studies in screened coulomb potential systems: analytic evaluations up to third order for the Yukawa case. *Theoretica Chimica Acta*, **1987**, 71, 315-325 8