

Jesus Sanchez-Dehesa

List of Publications by Year in descending order

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242
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citations

87888

38
h-index

138484

58
g-index

251
all docs

251
docs citations

251
times ranked

957
citing authors

#	ARTICLE	IF	CITATIONS
1	Position and momentum information entropies of the D-dimensional harmonic oscillator and hydrogen atom. <i>Physical Review A</i> , 1994, 50, 3065-3079.	2.5	237
2	The Fisher-Shannon information plane, an electron correlation tool. <i>Journal of Chemical Physics</i> , 2004, 120, 8906-8912.	3.0	215
3	The Fisher information of single-particle systems with a central potential. <i>Chemical Physics Letters</i> , 2005, 414, 468-472.	2.6	160
4	A dynamical theory of the giant dipole resonance in nuclei. <i>Nuclear Physics A</i> , 1979, 330, 290-306.	1.5	116
5	Quantum information entropies and orthogonal polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2001, 133, 23-46.	2.0	111
6	Information-theoretic measures for Morse and Pöschl-Teller potentials. <i>Molecular Physics</i> , 2006, 104, 613-622.	1.7	100
7	Uncertainty relation for Fisher information of D-dimensional single-particle systems with central potentials. <i>Journal of Mathematical Physics</i> , 2006, 47, 103504.	1.1	79
8	The Fisher-information-based uncertainty relation, Cramer-Rao inequality and kinetic energy for the D-dimensional central problem. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 1845-1856.	2.1	76
9	Shannon Entropy as an Indicator of Atomic Avoided Crossings in Strong Parallel Magnetic and Electric Fields. <i>Physical Review Letters</i> , 2003, 91, 113001.	7.8	72
10	Strong asymptotics of Laguerre polynomials and information entropies of two-dimensional harmonic oscillator and one-dimensional Coulomb potentials. <i>Journal of Mathematical Physics</i> , 1998, 39, 3050-3060.	1.1	69
11	Information theory of D-dimensional hydrogenic systems: Application to circular and Rydberg states. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 1529-1548.	2.0	68
12	Separability criteria and entanglement measures for pure states of N identical fermions. <i>Europhysics Letters</i> , 2009, 86, 20005.	2.0	67
13	Analysis of complexity measures and information planes of selected molecules in position and momentum spaces. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7108.	2.8	67
14	Quantum entanglement in a soluble two-electron model atom. <i>European Physical Journal D</i> , 2010, 56, 141-150.	1.3	66
15	On orthogonal polynomials with perturbed recurrence relations. <i>Journal of Computational and Applied Mathematics</i> , 1990, 30, 203-212.	2.0	65
16	Fisher Information and Steric Effect: Study of the Internal Rotation Barrier of Ethane. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4406-4415.	2.5	64
17	Tight rigorous bounds to atomic information entropies. <i>Journal of Chemical Physics</i> , 1992, 97, 6485-6495.	3.0	63
18	Fisher Information Study in Position and Momentum Spaces for Elementary Chemical Reactions. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 145-154.	5.3	60

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19	Weizsäcker energy of many-electron systems. <i>Physical Review A</i> , 1994, 50, 256-266.	2.5	56
20	On Asymptotic Average Properties of Zeros of Orthogonal Polynomials. <i>SIAM Journal on Mathematical Analysis</i> , 1979, 10, 1184-1192.	1.9	53
21	Entropy of orthogonal polynomials with Freud weights and information entropies of the harmonic oscillator potential. <i>Journal of Mathematical Physics</i> , 1995, 36, 4106-4118.	1.1	53
22	Spatial entropy of central potentials and strong asymptotics of orthogonal polynomials. <i>Journal of Mathematical Physics</i> , 1994, 35, 4423-4428.	1.1	52
23	Fisher information of D-dimensional hydrogenic systems in position and momentum spaces. <i>Journal of Mathematical Physics</i> , 2006, 47, 052104.	1.1	52
24	Quantum entanglement in two-electron atomic models. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 275301.	2.1	51
25	A quantum uncertainty relation based on Fisher's information. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 065301.	2.1	49
26	Quantum entanglement in helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 015504.	1.5	49
27	Monotone measures of statistical complexity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 377-380.	2.1	49
28	Information entropy of classical orthogonal polynomials and their application to the harmonic oscillator and Coulomb potentials. <i>Methods and Applications of Analysis</i> , 1997, 4, 91-110.	0.5	47
29	Improvement of the Heisenberg and Fisher-information-based uncertainty relations for D-dimensional central potentials. <i>New Journal of Physics</i> , 2006, 8, 330-330.	2.9	46
30	Characterization of atomic avoided crossings by means of Fisher's information. <i>European Physical Journal D</i> , 2005, 32, 39-43.	1.3	45
31	Fine Structure of the Magnetic Dipole States in Pb208. <i>Physical Review Letters</i> , 1977, 38, 208-211.	7.8	44
32	Entropic integrals of hyperspherical harmonics and spatial entropy of D-dimensional central potentials. <i>Journal of Mathematical Physics</i> , 1999, 40, 5675-5686.	1.1	41
33	Computation of the Entropy of Polynomials Orthogonal on an Interval. <i>SIAM Journal of Scientific Computing</i> , 2004, 26, 488-509.	2.8	41
34	Quantum entanglement in exactly soluble atomic models: the Moshinsky model with three electrons, and with two electrons in a uniform magnetic field. <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	41
35	Upper bounds on quantum uncertainty products and complexity measures. <i>Physical Review A</i> , 2011, 84, .	2.5	40
36	Entropy and complexity analysis of Dirac-delta-like quantum potentials. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 2215-2228.	2.6	40

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37	Bounds to density-dependent quantities of D -dimensional many-particle systems in position and momentum spaces: Applications to atomic systems. <i>Physical Review A</i> , 1989, 40, 35-40.	2.5	39
38	Spectral properties of the biconfluent Heun differential equation. <i>Journal of Computational and Applied Mathematics</i> , 1991, 37, 161-169.	2.0	39
39	Asymptotics of the Information Entropy for Jacobi and Laguerre Polynomials with Varying Weights. <i>Journal of Approximation Theory</i> , 1999, 99, 153-166.	0.8	38
40	Spreading widths of giant resonances in ^{12}C and ^{16}O . <i>Physical Review C</i> , 1977, 15, 1858-1865.	2.9	37
41	Some connection and linearization problems for polynomials in and beyond the Askey scheme. <i>Journal of Computational and Applied Mathematics</i> , 2001, 133, 579-591.	2.0	36
42	Cramer-Rao information plane of orthogonal hypergeometric polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2006, 186, 523-541.	2.0	35
43	Position-momentum uncertainty relations based on moments of arbitrary order. <i>Physical Review A</i> , 2011, 83, .	2.5	35
44	Atomic systems with a completely monotonic electron density. <i>Physical Review A</i> , 1991, 44, 1516-1522.	2.5	34
45	Expansions in series of orthogonal hypergeometric polynomials. <i>Journal of Computational and Applied Mathematics</i> , 1998, 89, 155-170.	2.0	34
46	Entropic measures of Rydberg-like harmonic states. <i>International Journal of Quantum Chemistry</i> , 2017, 117, 48-56.	2.0	34
47	Electron-pair relative-motion densities of atoms in position and momentum spaces. <i>Physical Review A</i> , 1998, 57, 1759-1766.	2.5	33
48	Information measures of hydrogenic systems, Laguerre polynomials and spherical harmonics. <i>Journal of Computational and Applied Mathematics</i> , 2005, 179, 185-194.	2.0	33
49	Asymptotics of orthogonal polynomial's entropy. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 1355-1365.	2.0	33
50	General linearization formulae for products of continuous hypergeometric-type polynomials. <i>Journal of Physics A</i> , 1999, 32, 7345-7366.	1.6	32
51	Functionals of Gegenbauer polynomials and D -dimensional hydrogenic momentum expectation values. <i>Journal of Mathematical Physics</i> , 2000, 41, 6600-6613.	1.1	32
52	Rényi entropies of the highly-excited states of multidimensional harmonic oscillators by use of strong Laguerre asymptotics. <i>European Physical Journal B</i> , 2016, 89, 1.	1.5	32
53	Atomic-charge convexity and the electron density at the nucleus. <i>Physical Review A</i> , 1990, 42, 641-644.	2.5	29
54	Bounds to the central electron-pair density with applications to two-electron atoms. <i>Physical Review A</i> , 1993, 47, 5202-5205.	2.5	29

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55	ASYMPTOTIC BEHAVIOR OF THE l_p -NORMS AND THE ENTROPY FOR GENERAL ORTHOGONAL POLYNOMIALS. Sbornik Mathematics, 1995, 82, 373-395.	0.6	29
56	Fisher entropy and uncertainty-like relationships in many-body systems. Physical Review A, 1999, 59, 4064-4067.	2.5	29
57	Configuration complexities of hydrogenic atoms. European Physical Journal D, 2009, 55, 539-548.	1.3	29
58	The relationship between entanglement, energy and level degeneracy in two-electron systems. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 115309.	2.1	29
59	Jensen divergence based on Fisher's information. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 125305.	2.1	29
60	Entanglement in N-harmonium: bosons and fermions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 195503.	1.5	29
61	Two-dimensional confined hydrogen: An entropy and complexity approach. International Journal of Quantum Chemistry, 2020, 120, e26192.	2.0	29
62	Electron-pair center-of-mass-motion densities of atoms in position and momentum spaces. Physical Review A, 1998, 57, 4212-4218.	2.5	28
63	Spreading lengths of Hermite polynomials. Journal of Computational and Applied Mathematics, 2010, 233, 2136-2148.	2.0	28
64	Electron momentum densities of atoms. Journal of Chemical Physics, 1998, 109, 1601-1606.	3.0	27
65	Scaling properties of composite information measures and shape complexity for hydrogenic atoms in parallel magnetic and electric fields. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4919-4925.	2.6	27
66	Modified Clebsch-Gordan-type expansions for products of discrete hypergeometric polynomials. Journal of Computational and Applied Mathematics, 1998, 89, 171-197.	2.0	26
67	The Shannon-entropy-based uncertainty relation for D -dimensional central potentials. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 225303.	2.1	26
68	Entanglement and the Born-Oppenheimer approximation in an exactly solvable quantum many-body system. European Physical Journal D, 2014, 68, 1.	1.3	26
69	Rényi, Shannon and Tsallis entropies of Rydberg hydrogenic systems. Europhysics Letters, 2016, 113, 48003.	2.0	26
70	The Hausdorff entropic moment problem. Journal of Mathematical Physics, 2001, 42, 2309.	1.1	25
71	Quantum-information entropies for highly excited states of single-particle systems with power-type potentials. Physical Review A, 2002, 66, .	2.5	25
72	Position and momentum information-theoretic measures of a D -dimensional particle-in-a-box. Journal of Mathematical Chemistry, 2011, 49, 971-994.	1.5	25

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73	Entropic properties of D -dimensional Rydberg systems. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 1197-1206.	2.6	25
74	Entropic uncertainty measures for large dimensional hydrogenic systems. Journal of Mathematical Physics, 2017, 58, .	1.1	25
75	Bounds for kinetic and exchange energies of fermion systems. Physical Review A, 1987, 35, 2384-2388.	2.5	24
76	Inverse atomic densities and inequalities among density functionals. Journal of Mathematical Physics, 2000, 41, 7906-7917.	1.1	24
77	Quantum entanglement and the dissociation process of diatomic molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 175101.	1.5	24
78	Upper bounds on Shannon and Rényi entropies for central potentials. Journal of Mathematical Physics, 2011, 52, .	1.1	24
79	Electron-pair densities of group 14, 15, and 16 atoms in their low-lying multiplet states. Journal of Chemical Physics, 1999, 110, 5763-5771.	3.0	23
80	Complexity of D -dimensional hydrogenic systems in position and momentum spaces. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3273-3281.	2.6	23
81	A generalized complexity measure based on Rényi entropy. European Physical Journal D, 2014, 68, 1.	1.3	23
82	Meson exchange-current effects in heavy nuclei. Nuclear Physics A, 1985, 436, 573-592.	1.5	22
83	Fisher information of orthogonal hypergeometric polynomials. Journal of Computational and Applied Mathematics, 2005, 182, 150-164.	2.0	22
84	Information-theoretical complexity for the hydrogenic abstraction reaction. Molecular Physics, 2011, 109, 2353-2365.	1.7	22
85	Direct spreading measures of Laguerre polynomials. Journal of Computational and Applied Mathematics, 2011, 235, 1129-1140.	2.0	22
86	The Shannon entropy of high-dimensional hydrogenic and harmonic systems. International Journal of Quantum Chemistry, 2019, 119, e25977.	2.0	22
87	Improved lower bounds for the atomic charge density at the nucleus. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, L271-L274.	1.5	21
88	Complexity measures and uncertainty relations of the high-dimensional harmonic and hydrogenic systems. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 083102.	2.3	21
89	The Three-Term Recurrence Relation and the Differentiation Formulas for Hypergeometric-type Functions. Journal of Mathematical Analysis and Applications, 1994, 188, 855-866.	1.0	20
90	Information-theoretic measures of hyperspherical harmonics. Journal of Mathematical Physics, 2007, 48, 043503.	1.1	20

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91	Existence conditions and spreading properties of extreme entropy D-dimensional distributions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 2243-2255.	2.6	20
92	Fisher information of special functions and second-order differential equations. <i>Journal of Mathematical Physics</i> , 2008, 49, 082104.	1.1	20
93	Rényi entropies, norms and linearization of powers of hypergeometric orthogonal polynomials by means of multivariate special functions. <i>Applied Mathematics and Computation</i> , 2013, 223, 25-33.	2.2	20
94	Some open problems of generalised Bessel polynomials. <i>Journal of Physics A</i> , 1984, 17, 2759-2766.	1.6	19
95	Linearization and connection coefficients for hypergeometric-type polynomials. <i>Journal of Computational and Applied Mathematics</i> , 1998, 99, 15-26.	2.0	19
96	Information-theoretic lengths of Jacobi polynomials. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 305203.	2.1	19
97	Entropy and complexity analysis of hydrogenic Rydberg atoms. <i>Journal of Mathematical Physics</i> , 2013, 54, .	1.1	19
98	Rigorous bounds to density-dependent quantities of D-dimensional many-fermion systems. <i>Physical Review A</i> , 1988, 37, 3634-3637.	2.5	18
99	New bounds for the atomic charge and momentum densities at the origin. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1991, 18, 127-130.	1.0	18
100	Lanczos method of tridiagonalization, Jacobi matrices and physics. <i>Journal of Computational and Applied Mathematics</i> , 1981, 7, 249-259.	2.0	17
101	Study of some interelectronic properties in helium-like atoms. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1992, 25, 9-16.	1.0	17
102	Entropic integrals of orthogonal hypergeometric polynomials with general supports. <i>Journal of Computational and Applied Mathematics</i> , 2000, 118, 311-322.	2.0	17
103	Phenomenological Description of a Three-Center Insertion Reaction: An Information-Theoretic Study. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1906-1916.	2.5	17
104	Rigorous lower bounds to average electron radial and momentum densities for atomic systems. <i>Physical Review A</i> , 1989, 39, 494-500.	2.5	16
105	Concurrent phenomena at the transition region of selected elementary chemical reactions: An information-theoretic complexity analysis. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 3578-3586.	2.0	16
106	Quasi-stationary states of the NRT nonlinear Schrödinger equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 3945-3951.	2.6	16
107	Heisenberg and Entropic Uncertainty Measures for Large-Dimensional Harmonic Systems. <i>Entropy</i> , 2017, 19, 164.	2.2	16
108	Analytical Shannon information entropies for all discrete multidimensional hydrogenic states. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26077.	2.0	16

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109	Particle-vibration coupling and exchange-current effects on the magnetic electron-scattering form factor. Nuclear Physics A, 1986, 448, 685-706.	1.5	15
110	Information entropies of many-electron systems. International Journal of Quantum Chemistry, 1995, 56, 489-498.	2.0	15
111	Quantum potentials with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si27.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Gaussian ground states. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1068-1073.	2.6	15
112	Quantum entanglement of helium-like systems with varying-Z: compact state-of-the-art CI wave functions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 175002.	1.5	15
113	Information-theoretic space from simple atomic and molecular systems to biological and pharmacological molecules. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	15
114	A lower bound for the nuclear kinetic energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 156, 287-290.	4.1	14
115	On the polynomial solutions of ordinary differential equations of the fourth order. Journal of Mathematical Physics, 1985, 26, 1547-1552.	1.1	14
116	The distribution of zeros of the polynomial eigenfunctions of ordinary differential operators of arbitrary order. Lecture Notes in Mathematics, 1988, , 222-235.	0.2	14
117	Atomic-charge monotonicity and cusp-type inequalities: Applications to heliumlike systems. Physical Review A, 1994, 49, 4225-4228.	2.5	14
118	SHORT-WAVE ASYMPTOTICS OF THE INFORMATION ENTROPY OF A CIRCULAR MEMBRANE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 2387-2392.	1.7	14
119	Distributions of zeros of discrete and continuous polynomials from their recurrence relation. Applied Mathematics and Computation, 2002, 128, 167-190.	2.2	14
120	Quantum expectation values of $\langle i \rangle D \langle i \rangle$ -dimensional Rydberg hydrogenic states by use of Laguerre and Gegenbauer asymptotics. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 145204.	2.1	14
121	Rényi entropies for multidimensional hydrogenic systems in position and momentum spaces. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 073203.	2.3	14
122	Spectral properties of solutions of hypergeometric-type differential equations. Journal of Computational and Applied Mathematics, 1994, 50, 613-623.	2.0	13
123	Asymptotics of information entropies of some Toda-like potentials. Journal of Mathematical Physics, 2003, 44, 36-47.	1.1	13
124	Pauli effects in uncertainty relations. Chemical Physics Letters, 2014, 614, 1-4.	2.6	13
125	Predominant Information Quality Scheme for the Essential Amino Acids: An Information-Theoretical Analysis. ChemPhysChem, 2015, 16, 2571-2581.	2.1	13
126	Correlation energy as a measure of non-locality: Quantum entanglement of helium-like systems. Europhysics Letters, 2015, 111, 40009.	2.0	13

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127	Entropic functionals of Laguerre and Gegenbauer polynomials with large parameters. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 215206.	2.1	13
128	Electron-momentum densities of singly charged ions. <i>Physical Review A</i> , 1999, 59, 4805-4808.	2.5	12
129	Expansion coefficients and moments of electron momentum densities for singly charged ions. <i>Theoretical Chemistry Accounts</i> , 1999, 103, 70-76.	1.4	12
130	Rényi entropy of the infinite well potential in momentum space and Dirichlet-like trigonometric functionals. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 1079-1090.	1.5	12
131	Insight into the informational-structure behavior of the Diels-Alder reaction of cyclopentadiene and maleic anhydride. <i>Journal of Molecular Modeling</i> , 2014, 20, 2361.	1.8	12
132	One-Parameter Fisher-Rényi Complexity: Notion and Hydrogenic Applications. <i>Entropy</i> , 2017, 19, 16.	2.2	12
133	Dispersion and entropy-like measures of multidimensional harmonic systems: application to Rydberg states and high-dimensional oscillators. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	12
134	On the zeros of eigenfunctions of polynomial differential operators. <i>Journal of Mathematical Physics</i> , 1985, 26, 2729-2736.	1.1	11
135	Monotonicity properties of the atomic charge density function. <i>International Journal of Quantum Chemistry</i> , 1996, 58, 11-21.	2.0	11
136	On the non-convexity of charge densities in atoms and ions. <i>Computational and Theoretical Chemistry</i> , 2000, 501-502, 177-182.	1.5	11
137	Generalized Cram�r-Rao relations for non-relativistic quantum systems. <i>Applied Mathematics Letters</i> , 2012, 25, 1689-1694.	2.7	11
138	Entropy and complexity analysis of the D -dimensional rigid rotator and hyperspherical harmonics. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 573-589.	1.5	11
139	Quantum Entanglement and Chemical Reactivity. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 5144-5151.	5.3	11
140	Heisenberg-like uncertainty measures for D -dimensional hydrogenic systems at large D . <i>Journal of Mathematical Physics</i> , 2016, 57, 082109.	1.1	11
141	Exact Shannon entropies for the multidimensional harmonic states. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 516, 273-279.	2.6	11
142	On the conditions for a Hamiltonian matrix to have an eigen-value density with some prescribed characteristics. <i>Journal of Computational and Applied Mathematics</i> , 1976, 2, 249-254.	2.0	10
143	The asymptotical spectrum of Jacobi matrices. <i>Journal of Computational and Applied Mathematics</i> , 1977, 3, 167-171.	2.0	10
144	Structure calculations for the doubly magic nucleus $^{50}132\text{Sn}82$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1978, 74, 309-312.	4.1	10

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145	Lower bounds on the electronic charge and momentum densities of atomic systems at the origin. <i>Physical Review A</i> , 1988, 37, 3154-3157.	2.5	10
146	Atomic-charge log-convexity and radial expectation values. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1991, 24, L299-L306.	1.5	10
147	The electron-pair density of atomic systems. Rigorous bounds and application to helium. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1992, 25, 3-8.	1.0	10
148	Charge monotonicity of atomic systems and radial expectation values. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 25, 287-293.	1.0	10
149	Bounds to some local electron-pair properties with application to two-electron ions. <i>Physical Review A</i> , 1994, 50, 857-860.	2.5	10
150	Four-term recurrence relations of hypergeometric-type polynomials. <i>Il Nuovo Cimento B</i> , 1994, 109, 725-733.	0.1	10
151	Diamagnetic informational exchange in hydrogenic avoided crossings. <i>Chemical Physics Letters</i> , 2003, 373, 615-619.	2.6	10
152	Information-theoretical complexity for the hydrogenic identity S_N 2 exchange reaction. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 1882-1900.	1.5	10
153	Entropy and Complexity Analyses of D-dimensional Quantum Systems. , 2011, , 129-166.		10
154	The eigenvalue density of rational Jacobi matrices. II. <i>Linear Algebra and Its Applications</i> , 1980, 33, 41-55.	0.9	9
155	The distribution of zeros of spherical bessel functions. <i>Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods</i> , 1989, 103, 611-616.	0.2	9
156	Kinetic energy bounds for particles confined in spherically-symmetric traps with non-standard dimensions. <i>New Journal of Physics</i> , 2007, 9, 131-131.	2.9	9
157	Discrete Entropies of Orthogonal Polynomials. <i>Constructive Approximation</i> , 2009, 30, 93-119.	3.0	9
158	Relativistic Klein-Gordon charge effects by information-theoretic measures. <i>New Journal of Physics</i> , 2010, 12, 023014.	2.9	9
159	Information-Theoretic-Based Spreading Measures of Orthogonal Polynomials. <i>Complex Analysis and Operator Theory</i> , 2012, 6, 585-601.	0.6	9
160	Quantum entanglement in $(d+1)$ -spherium. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 475302.	2.1	9
161	Heisenberg-like and Fisher-information-based uncertainty relations for N -electron d -dimensional systems. <i>Physical Review A</i> , 2015, 91, .	2.5	9
162	Rydberg multidimensional states: Rényi and Shannon entropies in momentum space. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 035305.	2.1	9

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163	Meson exchange current effects in the electroexcitation of magnetic states in closed shell nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1984, 146, 294-298.	4.1	8
164	Structure of the electron momentum density of atomic systems. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1997, 42, 251-257.	1.0	8
165	Expansions in series of varying Laguerre polynomials and some applications to molecular potentials. <i>Journal of Computational and Applied Mathematics</i> , 2003, 153, 411-421.	2.0	8
166	Spreading measures of information-extremizer distributions: applications to atomic electron densities in position and momentum spaces. <i>European Physical Journal D</i> , 2009, 51, 321-329.	1.3	8
167	Information-theoretic properties of the half-line Coulomb potential. <i>Journal of Mathematical Chemistry</i> , 2010, 47, 911-928.	1.5	8
168	Concurrent Phenomena at the Reaction Path of the SN2 Reaction $\text{CH}_3\text{Cl} + \text{F}^\sim$. <i>Information Planes and Statistical Complexity Analysis</i> . <i>Entropy</i> , 2013, 15, 4084-4104.	2.2	8
169	Entropy and complexity properties of the d-dimensional blackbody radiation. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	8
170	On Generalized Stam Inequalities and Fisher's Rényi Complexity Measures. <i>Entropy</i> , 2017, 19, 493.	2.2	8
171	The spectrum of Jacobi matrices in terms of its associated weight function. <i>Journal of Computational and Applied Mathematics</i> , 1978, 4, 275-283.	2.0	7
172	The distribution of zeros of general q-polynomials. <i>Journal of Physics A</i> , 1997, 30, 6743-6768.	1.6	7
173	Electron-pair densities of group 2 atoms in their s^1p^1 and s^3p^1 terms. <i>European Physical Journal D</i> , 1999, 7, 17-23.	1.3	7
174	Entropic functionals of Laguerre polynomials and complexity properties of the half-line Coulomb potential. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 2283-2294.	2.0	7
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