

Pablo Sanchez Moreno

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,078
citations

361413

20
h-index

414414

32
g-index

46
all docs

46
docs citations

46
times ranked

325
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The Fisher information of single-particle systems with a central potential. <i>Chemical Physics Letters</i> , 2005, 414, 468-472. | 2.6 | 160 |
| 2 | 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 |
| 3 | The Fisher-information-based uncertainty relation, Cramer's 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 |
| 4 | A quantum uncertainty relation based on Fisher's information. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 065301. | 2.1 | 49 |
| 5 | Monotone measures of statistical complexity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 377-380. | 2.1 | 49 |
| 6 | 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 |
| 7 | 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 |
| 8 | Upper bounds on quantum uncertainty products and complexity measures. <i>Physical Review A</i> , 2011, 84, . | 2.5 | 40 |
| 9 | Cramer's Rao information plane of orthogonal hypergeometric polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2006, 186, 523-541. | 2.0 | 35 |
| 10 | Position-momentum uncertainty relations based on moments of arbitrary order. <i>Physical Review A</i> , 2011, 83, . | 2.5 | 35 |
| 11 | Jensen divergence based on Fisher's information. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 125305. | 2.1 | 29 |
| 12 | Spreading lengths of Hermite polynomials. <i>Journal of Computational and Applied Mathematics</i> , 2010, 233, 2136-2148. | 2.0 | 28 |
| 13 | The Shannon-entropy-based uncertainty relation for D -dimensional central potentials. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 225303. | 2.1 | 26 |
| 14 | Position and momentum information-theoretic measures of a D-dimensional particle-in-a-box. <i>Journal of Mathematical Chemistry</i> , 2011, 49, 971-994. | 1.5 | 25 |
| 15 | On the (non-)uniqueness of the Levi-Civita solution in the Einstein-Hilbert-Palatini formalism. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 768, 280-287. | 4.1 | 25 |
| 16 | Upper bounds on Shannon and Rényi entropies for central potentials. <i>Journal of Mathematical Physics</i> , 2011, 52, . | 1.1 | 24 |
| 17 | Analytic potential and charge model for III-V surrounding gate metal-oxide-semiconductor field-effect transistors. <i>Journal of Applied Physics</i> , 2012, 112, . | 2.5 | 23 |
| 18 | A generalized complexity measure based on Rényi entropy. <i>European Physical Journal D</i> , 2014, 68, 1. | 1.3 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Direct spreading measures of Laguerre polynomials. Journal of Computational and Applied Mathematics, 2011, 235, 1129-1140. | 2.0 | 22 |
| 20 | Fisher information of special functions and second-order differential equations. Journal of Mathematical Physics, 2008, 49, 082104. | 1.1 | 20 |
| 21 | Rényi entropies, norms and linearization of powers of hypergeometric orthogonal polynomials by means of multivariate special functions. Applied Mathematics and Computation, 2013, 223, 25-33. | 2.2 | 20 |
| 22 | Information-theoretic lengths of Jacobi polynomials. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 305203. | 2.1 | 19 |
| 23 | Entropy and complexity analysis of hydrogenic Rydberg atoms. Journal of Mathematical Physics, 2013, 54, . | 1.1 | 19 |
| 24 | Pauli effects in uncertainty relations. Chemical Physics Letters, 2014, 614, 1-4. | 2.6 | 13 |
| 25 | Rényi entropy of the infinite well potential in momentum space and Dirichlet-like trigonometric functionals. Journal of Mathematical Chemistry, 2012, 50, 1079-1090. | 1.5 | 12 |
| 26 | One-Parameter Fisher-Rényi Complexity: Notion and Hydrogenic Applications. Entropy, 2017, 19, 16. | 2.2 | 12 |
| 27 | Molecular rotational dynamics in nonadiabatically switching homogeneous electric fields. Physical Review A, 2007, 76, . | 2.5 | 11 |
| 28 | Comparative study of the rovibrational properties of heteronuclear alkali dimers in electric fields. Europhysics Letters, 2008, 83, 43001. | 2.0 | 11 |
| 29 | Generalized Cramér-Rao relations for non-relativistic quantum systems. Applied Mathematics Letters, 2012, 25, 1689-1694. | 2.7 | 11 |
| 30 | Entropy and complexity analysis of the D -dimensional rigid rotator and hyperspherical harmonics. Journal of Mathematical Chemistry, 2015, 53, 573-589. | 1.5 | 11 |
| 31 | Kinetic energy bounds for particles confined in spherically-symmetric traps with non-standard dimensions. New Journal of Physics, 2007, 9, 131-131. | 2.9 | 9 |
| 32 | Information-Theoretic-Based Spreading Measures of Orthogonal Polynomials. Complex Analysis and Operator Theory, 2012, 6, 585-601. | 0.6 | 9 |
| 33 | Quantum entanglement in $(d+1)$ -spherium. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 475302. | 2.1 | 9 |
| 34 | Entropic functionals of Laguerre polynomials and complexity properties of the half-line Coulomb potential. International Journal of Quantum Chemistry, 2011, 111, 2283-2294. | 2.0 | 7 |
| 35 | Pseudo-Boltzmann model for modeling the junctionless transistors. Solid-State Electronics, 2014, 95, 19-22. | 1.4 | 7 |
| 36 | Asymptotics ($\lim_{p \rightarrow \infty} L_p$) of L_p -norms of hypergeometric orthogonal polynomials. Journal of Mathematical Chemistry, 2014, 52, 283-300. | 1.5 | 5 |

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|----|--|-----|-----------|
| 37 | Asymptotics of the information entropy of the Airy function. Journal of Physics A, 2005, 38, 9969-9978. | 1.6 | 4 |
| 38 | Complexity analysis of hypergeometric orthogonal polynomials. Journal of Computational and Applied Mathematics, 2015, 284, 144-154. | 2.0 | 4 |
| 39 | Fisher information: uncertainty relation and steric effect. Journal of Russian Laser Research, 2011, 32, 403-411. | 0.6 | 3 |
| 40 | Frequency moments, L_q norms and Rényi entropies of general hypergeometric polynomials. Journal of Mathematical Chemistry, 2014, 52, 1372-1385. | 1.5 | 3 |
| 41 | Response to "Comment on "Entropy and complexity analysis of hydrogenic Rydberg atoms" [J. Math. Phys. 58, 104101 (2017)]. Journal of Mathematical Physics, 2017, 58, 104102. | 1.1 | 2 |
| 42 | On moments-based Heisenberg inequalities. , 2011, , . | | 0 |
| 43 | Information Theory of Quantum Systems with some hydrogenic applications. , 2011, , . | | 0 |
| 44 | Relative Fisher information of discrete classical orthogonal polynomials. Journal of Difference Equations and Applications, 2012, 18, 489-508. | 1.1 | 0 |