## Jesus Sanchez-Dehesa

## List of Publications by Year

 in descending orderSource: https:/|exaly.com/author-pdf/9287220/publications.pdf
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$1 \begin{aligned} & \text { Position and momentum information entropies of theD-dimensional harmonic oscillator and } \\ & \text { hydrogen atom. Physical Review A, 1994, 50, 3065-3079. }\end{aligned}$

The Fisherâe"Shannon information plane, an electron correlation tool. Journal of Chemical Physics, 2004, 120, 8906-8912.

The Fisher information of single-particle systems with a central potential. Chemical Physics Letters, 2005, 414, 468-472.

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7 Uncertainty relation for Fisher information of D-dimensional single-particle systems with central potentials. Journal of Mathematical Physics, 2006, 47, 103504.
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The Fisher-information-based uncertainty relation, Cramerấ" $R$ ao inequality and kinetic energy for 8 theD-dimensional central problem. Journal of Physics A: Mathematical and Theoretical, 2007, 40,
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9. Shannon Entropy as an Indicator of Atomic Avoided Crossings in Strong Parallel Magnetic and
$9 \quad$ Electric Fields. Physical Review Letters, 2003, 91, 113001.
Strong asymptotics of Laguerre polynomials and information entropies of two-dimensional harmonic 10 oscillator and one-dimensional Coulomb potentials. Journal of Mathematical Physics, 1998, 39, 3050-3060.
11 Information theory of D-dimensional hydrogenic systems: Application to circular and Rydberg states. International Journal of Quantum Chemistry, 2010, 110, 1529-1548.
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Separability criteria and entanglement measures for pure states of N identical fermions. EurophysicsAnalysis of complexity measures and information planes of selected molecules in position and1.3

Quantum entanglement in a soluble two-electron model atom. European Physical Journal D, 2010, 56,

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Fisher information of D-dimensional hydrogenic systems in position and momentum spaces. Journal of
Mathematical Physics, 2006, 47, 052104.
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27 Monotone measures of statistical complexity. Physics Letters, Section A: General, Atomic and Solid
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28 Information entropy of classical orthogonal polynomials and their application to the harmonic oscillator and Coulomb potentials. Methods and Applications of Analysis, 1997, 4, 91-110.
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Improvement of the Heisenberg and Fisher-information-based uncertainty relations forD-dimensional
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30 Journal D, 2005, 32, 39-43.
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| 73 | Entropic properties of <mml:math xmlns:mml="http:\|/www.w3.org/1998/Math/MathML" altimg="si16.gif" display="inline" overflow="scroll">[mml:mi](mml:mi)D</mml:mi></mml:math>-dimensional Rydberg systems. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 1197-1206. | 1.2 | 25 |
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| 76 | Inverse atomic densities and inequalities among density functionals. Journal of Mathematical Physics, 2000, 41, 7906-7917. | 0.5 | 24 |
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| 81 | A generalized complexity measure based on RÃ Onyi entropy. European Physical Journal D, 2014, 68, 1. | 0.6 | 23 |

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85 Mathematics, 2011, 235, 1129-1140.The Shannon entropy of highâ€dimensional hydrogenic and harmonic systems. International Journal ofQuantum Chemistry, 2019, 119, e25977.

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| 92 | Fisher information of special functions and second-order differential equations. Journal of Mathematical Physics, 2008, 49, 082104. | 0.5 | 20 |
| 93 | RÃ ©nyi entropies, <mml:math xmlns:mml="http:\||www.w3.org/1998/Math/MathML" altimg="s overflow="scroll">[mml:mrow](mml:mrow) [mml:msub](mml:msub) [mml:mrow](mml:mrow) [mml:mi](mml:mi)L</mml:mi> </mml:mrow > norms and linearization of powers of hypergeometric orthogonal polynomials by means of multivariate special functions. Applied Mathematics and Computation. 2013, 223, 25-33. |  |  |

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97 Entropy and complexity analysis of hydrogenic Rydberg atoms. Journal of Mathematical Physics, 2013,

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