

JESÚS SÁNCHEZ-DEHESA MORENO-CID



Ficha del Directorio

Grupo de Investigación: FÍSICA ATOMICA Y MOLECULAR (Cod.: FQM207)

Departamento: Universidad de Granada. Instituto Universitario de Investigación "Carlos I" de Física Teórica y Computacional

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Código ORCID: <http://orcid.org/0000-0003-4397-9426>

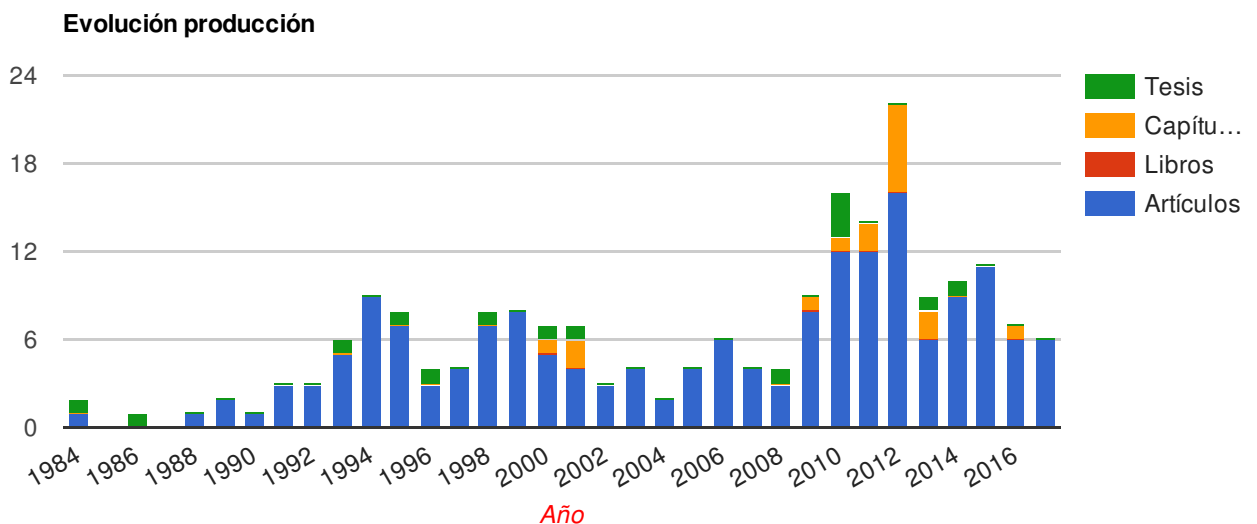
RG: https://www.researchgate.net/profile/Jesus_Dehesa

Correo electrónico: dehesa@ugr.es

Código: 28164

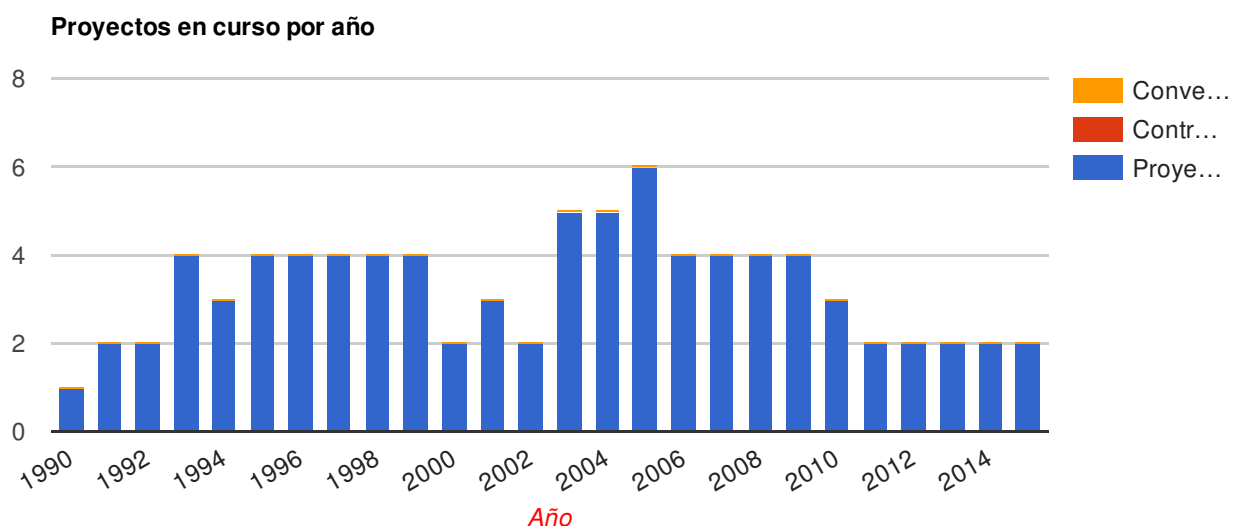
Producción 205

Artículos (175) Libros (0) Capítulos de Libros (16) Tesis dirigidas (14)



Proyectos dirigidos 20

Proyectos (20) Contratos (0) Convenios (0)



Actividades 6

Título publicación	Fuente	Tipo	Fecha
Complexity measures and uncertainty relations of the high-dimensional harmonic and hydrogenic systems	Journal of statistical physics	Artículo	2017
Entropic functionals of laguerre and gegenbauer polynomials with large parameters	Journal of physics a: mathematical and theoretical	Artículo	2017
Entropic functionals of laguerre and gegenbauer polynomials with large parameters	Journal of physics a: mathematical and theoretical	Artículo	2017
Heisenberg and entropic uncertainty measures for large-dimensional harmonic systems	Entropy	Artículo	2017
One-parameter fisher-rényi complexity: notion and hydrogenic applications	Entropy	Artículo	2017
The biparametric fisher-rényi complexity measure and its application to the multidimensional blackbody radiation	Journal of statistical mechanics: theory and experiment	Artículo	2017
Entropic measures of rydberg-like harmonic states	International journal of quantum chemistry	Artículo	2016
Heisenberg-like uncertainty measures for d-dimensional hydrogenic systems at large d	Journal of mathematical physics	Artículo	2016
Heisenberg-like uncertainty measures for d-dimensional hydrogenic systems at large d	Journal of mathematical physics	Artículo	2016
Information-theoretic representation of the chemical space of many electron systems	Frontiers in computational chemistry. 3,	Capítulo de libro	2016
Information-theoretic space from simple atomic and molecular systems to biological and pharmacological molecules	Theoretical chemistry accounts	Artículo	2016
Monotone measures of statistical complexity	Physics letters a	Artículo	2016
Study of the chemical space of selected bacteriostatic sulfonamides from an information-theoretical point of view	Chemphyschem	Artículo	2016
Complexity analysis of hypergeometric orthogonal polynomials	Journal of computational and applied mathematics	Artículo	2015
Correlation energy as a measure of non-locality: quantum entanglement of helium-like systems	Europhysics letters	Artículo	2015
Entropy and complexity analysis of the d-dimensional rigid rotator and hyperspherical harmonics	Journal of mathematical chemistry	Artículo	2015
Extremum-entropy-based heisenberg-like uncertainty relations	Journal of physics a: mathematical and theoretical	Artículo	2015
Extremum-entropy-based heisenberg-like uncertainty relations	Journal of physics a	Artículo	2015
Heisenberg-like and fisher-information-based uncertainty relations fo n-electron d-dimensional systems	Physical review a - atomic, molecular, and optical physics	Artículo	2015
Heisenberg-like and fisher-information-based uncertainty relations for n -electron d-dimensional systems		Artículo	2015
Predominant information quality scheme for the essential amino acids: an information-theoretical analysis.	Chemphyschem	Artículo	2015

Quantum entanglement and chemical reactivity	Journal of chemical theory and computation	Articulo	2015
Quantum entanglement in (d-1)-spherium	Journal of physics a: mathematical and theoretical	Articulo	2015
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	Articulo	2015
A generalized complexity measure based on rényi entropy	European physical journal d	Articulo	2014
Asymptotics of lq-norms of hypergeometric orthogonal polynomials	Journal of mathematical chemistry	Articulo	2014
Entanglement and the born-oppenheimer approximation in an exactly solvable quantum many-body system	European physical journal d. atomic, molecular, optical and plasma physics	Articulo	2014
Entanglement in n -harmonium: bosons and fermions	Journal of physics b	Articulo	2014
Entropy and complexity properties of the d-dimensional blackbody radiation	European physical journal d. atomic, molecular, optical and plasma physics	Articulo	2014
Frequency moments, lq norms and rényi entropies of general hypergeometric polynomials	Journal of mathematical chemistry	Articulo	2014
Frequency moments, lq norms and rényi entropies of general hypergeometric polynomials	Journal of mathematical chemistry	Articulo	2014
Insight into the informational-structure behavior of the diels-alder reaction of cyclopentadiene and maleic anhydride	Journal of molecular modeling	Articulo	2014
Medidas entrópicas y de complejidad de funciones especiales y sistemas cuánticos		Tesis doctoral	2014
Pauli effects in uncertainty relations	Chemical physics letters	Articulo	2014
Atomic information-theoretic measures and quantum entanglement of many-particle systems		Tesis doctoral	2013
Concurrent phenomena at the reaction path of the sn2 reaction $\text{CH}_3\text{Cl} + \text{F}^-$. information planes and statistical complexity analysis	Entropy	Articulo	2013
Decoding the building blocks of life from the perspective of quantum information	Advances in quantum mechanics	Capítulo de libro	2013
Entropy and complexity analysis of hydrogenic rydberg atoms	Journal of mathematical chemistry	Articulo	2013
Information-theoretical analysis for the sn2 exchange reaction $\text{CH}_3\text{Cl} + \text{F}^-$.	International journal of quantum chemistry	Articulo	2013
Information-theoretical complexity analysis of selected elementary chemical reactions	Without bounds: a scientific canvas of non-linearity and complex dynamics	Capítulo de libro	2013
Quasi-stationary states of the nrt nonlinear schrödinger equation	Physica a. statistical mechanics and its applications	Articulo	2013
Quasi-stationary states of the nrt nonlinear schrödinger equation.	Physica.. a, statistical mechanics and its applications	Articulo	2013
Renyi entropies, lq norms and linearization of powers of hypergeometric orthogonal polynomials by means of multivariate special functions	Applied mathematics and computation	Articulo	2013
Asymptotics of lp-norms of hermite polynomials and renyi entropy of rydberg	Contemporary mathematics	Articulo	2012

oscillator states			
Complexity analysis of the hydrogenic spectrum in strong parallel magnetic and electric fields	Progress in theoretical chemistry and physics b	Articulo	2012
Complexity of multidimensional hydrogenic systems	International journal of applied mathematics & statistics	Articulo	2012
Fisher information and steric effect: study of the internal rotation barrier of ethane	International journal of quantum chemistry	Articulo	2012
Generalized cramer-rao relations for non-relativistic quantum systems	Applied mathematics letters	Articulo	2012
Information-theoretic-based spreading measures of orthogonal polynomials	Complex analysis and operator theory	Articulo	2012
Information-theoretical complexity for the hydrogenic identity s_n^2 exchange reaction	Journal of mathematical chemistry	Articulo	2012
Jensen divergence based on fisher's information	Journal of physics a: mathematical and theoretical	Articulo	2012
Quantifying dirac hydrogenic effects via complexity measures	Physical review a - atomic, molecular, and optical physics	Articulo	2012
Quantum information-theoretical analyses of systems and processes of chemical and nanotechnological interest	Some applications of quantum mechanics	Capítulo de libro	2012
Quantum information-theoretical analyses of systems and processes of chemical and nanotechnological interest	Some applications of quantum mechanics	Capítulo de libro	2012
Quantum entanglement in helium	Journal of physics b: atomic, molecular and optical physics	Articulo	2012
Quantum entanglement in exactly soluble atomic models: the moshinsky model with three electrons, and with two electrons in a uniform magnetic field	European physical journal d. atomic, molecular, optical and plasma physics	Articulo	2012
Quantum potentials with q-gaussian ground states	Physica.. a, statistical mechanics and its applications	Articulo	2012
Relative fisher information of discrete classical orthogonal polynomials	Journal of difference equations and applications	Articulo	2012
Recent advances toward the nascent science of quantum information chemistry	Information theory: new research	Capítulo de libro	2012
Recent advances towards the nascent science of quantum information chemistry	Information theory: new research	Capítulo de libro	2012
Renyi entropy of the infinite well potential in momentum space and dirichlet-like trigonometric functionals	Journal of mathematical chemistry	Articulo	2012
Speech signals via information theory and chebyshev polynomials	Proceedings of the 7th. int. conference on mass data analysis of images and signals with applications in medicine, r/g/b biotechnology, food industries and dietetics, biometry and security, and agriculture	Capítulo de libro	2012
The fisher information: properties and applications to some physico-chemical processes	Concepts and recent advances in generalised information measures and statistics	Capítulo de libro	2012
The shannon-entropy-based uncertainty relation for d-dimensional central potentials	Journal of physics a: mathematical and theoretical	Articulo	2012
The relationship between entanglement, energy and level degeneracy in two-electron systems	Journal of physics a	Articulo	2012

A quantum uncertainty relation based on fisher's information	Journal of physics a: mathematical and theoretical	Articulo	2011
Direct spreading measures of laguerre polynomials	Journal of computational and applied mathematics	Articulo	2011
Entropic functionals of laguerre polynomials and complexity properties of the half-line coulomb potential	International journal of quantum chemistry	Articulo	2011
Entropy and complexity analyses of d-dimensional quantum systems	Statistical complexity: applications in electronic structure	Capítulo de libro	2011
Entanglement and the dissociation processes of diatomic molecules	Journal of physics b: atomic, molecular and optical physics	Articulo	2011
Entropy and complexity analysis of dirac-delta-like quantum potentials	Physica a. statistical mechanics and its applications	Articulo	2011
Fisher information and steric effect: study of the internal rotation barrier of ethane	Journal of physical chemistry (1952)	Articulo	2011
Fisher information: uncertainty relation and steric effect	Journal of russian laser research	Articulo	2011
Information-theoretical complexity for the hydrogenic abstraction reaction	Molecular physics	Articulo	2011
Position and momentum information-theoretic measures of a d-dimensional particle-in-a-box	Journal of mathematical chemistry	Articulo	2011
Position-momentum uncertainty relations based on moments of arbitrary order	Physical review a - atomic, molecular, and optical physics	Articulo	2011
Quantum information-theoretical analyses of systems and processes of chemical and nanotechnological interest	Quantum mechanics / book 3	Capítulo de libro	2011
Upper bounds on shannon and rényi entropies for central potentials	Journal of mathematical physics	Articulo	2011
Upper bounds on quantum uncertainty products and complexity measures	Physical review a	Articulo	2011
Analysis of complexity measures and information planes of selected molecules in position and momentum spaces	Physical chemistry chemical physics	Articulo	2010
Asymptotics of orthogonal polynomials entropy	Journal of computational and applied mathematics	Articulo	2010
Asymptotics of orthogonal-polynomials and shannon information entropy f rydberg atoms	Progress in industrial mathematics at ecmi 2008	Capítulo de libro	2010
Complexity analysis of klein-gordon single-particle systems	Europhysics letters	Articulo	2010
Fisher information study in position and momentum spaces for elementary chemical reactions	Journal of chemical theory and computation	Articulo	2010
Information and entanglement measures in quantum systems with applications to atomic physics	Universidad de granada. física atomica, molecular y nuclear	Tesis doctoral	2010
Information measures of quantum system and collective rydberg excitations of an atomic gas confined in a ring lattice	Universidad de granada. física atomica, molecular y nuclear	Tesis doctoral	2010
Information theory of d-dimensional hydrogenic systems: application to circular and rydberg states	International journal of quantum chemistry	Articulo	2010
Information-theoretic lengths of jacobi polynomials	Journal of physics a: mathematical and theoretical	Articulo	2010

polynomials				
Information-theoretic measures of atomic and molecular systems	Universidad de granada. física atomica, molecular y nuclear	Tesis doctoral	2010	
Phenomenological description of a three center insertion reaction: and information-theoretic study	Journal of physical chemistry (1952)	Articulo	2010	
Quantum entanglement in a soluble two-electron model atom	European physical journal d. atomic, molecular, optical and plasma physics	Articulo	2010	
Quantum entanglement in two-electron atomic models	Journal of physics a: mathematical and general	Articulo	2010	
Quantum expectation values of d-dimensional rydberg hydrogenic states by laguerre and gegenbauer asymptotics	Journal of physics a: mathematical and general	Articulo	2010	
Relativistic klein-gordon charge effects by information-theoretic measures	New journal of physics	Articulo	2010	
Spreading lengths of hermite polynomials	Journal of computational and applied mathematics	Articulo	2010	
Complexity of d-dimensional hydrogenic systems in position and momentum spaces	Physica a. statistical mechanics and its applications	Articulo	2009	
Configuration complexities of hydrogenic atoms	European physical journal d. atomic, molecular, optical and plasma physics	Articulo	2009	
Discrete entropies of orthogonal polynomials	Constructive approximation	Articulo	2009	
Information-theoretic properties of the half-line coulomb potential	Journal of mathematical chemistry	Articulo	2009	
Multidimensional hydrogenic complexity	Mathematical physics and field theory. julio abad in memoriam	Capítulo de libro	2009	
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	Articulo	2009	
Separability criteria and entanglement measures for pure states of n-identical fermions	Europhysics letters	Articulo	2009	
Spreading measures of information-extremizer distributions: applications to atomic electron densities in position and momentum spaces	European physical journal d. atomic, molecular, optical and plasma physics	Articulo	2009	
Theoretic-information entropies analysis of nanostructures: ab initio study of pamam precursors and dendrimers g0 to g3	Molecular simulation	Articulo	2009	
Existence conditions and spreading properties of extreme entropy d-dimensional distributions	Physica a. statistical mechanics and its applications	Articulo	2008	
Fisher information of special functions and second-order differential equations	Journal of mathematical physics	Articulo	2008	
Medidas de informacion de funciones especiales y sistemas mecano-cuanticos, y dinamica molecular en presencia de campos electricos homogeneos y dependientes del tiempo	Universidad de granada. física atomica, molecular y nuclear	Tesis doctoral	2008	
Parameter-based fisher's information of orthogonal polynomials	Journal of computational and applied mathematics	Articulo	2008	
Fisher-information-based uncertainty relation, cramer-rao inequality and kinetic energy for the d -dimensional central problem	Journal of physics a: mathematical and general	Articulo	2007	

General recurrence and ladder relations of hypergeometric-type functions	Journal of computational and applied mathematics	Articulo	2007
Information-theoretic measures of hyperspherical harmonics	Journal of mathematical physics	Articulo	2007
Kinetic energy bounds for particles confined in spherically-symmetric traps with non-standard dimensions	New journal of physics	Articulo	2007
Cramer-rao information plane of orthogonal hypergeometric polynomials	Journal of computational and applied mathematics	Articulo	2006
Fisher information of d-dimensional hydrogenic systems in position and momentum spaces	Journal of mathematical physics	Articulo	2006
Improvement of the heisenberg and fisher-information-based uncertainty relations for d-dimensional central potentials	New journal of physics	Articulo	2006
Information-theoretic measures for morse and poschl-teller potentials	Molecular physics	Articulo	2006
Information-theoretic measures of discrete orthogonal polynomials	Journal of difference equations and applications	Articulo	2006
Uncertainty relation for fisher information of d-dimensional single-particle systems with central potentials	Journal of mathematical physics	Articulo	2006
Characterization of atomic avoided crossings by means of fisher information	European physical journal d. atomic, molecular, optical and plasma physics	Articulo	2005
Fisher information of orthogonal hypergeometric polynomials	Journal of computational and applied mathematics	Articulo	2005
Information measures of hydrogenic systems, laguerre polynomials and spherical harmonics	Journal of computational and applied mathematics	Articulo	2005
The fisher information of single-particle systems with a central potential	Chemical physics letters	Articulo	2005
Computation of the entropy of polynomials orthogonal on an interval	Siam journal on scientific computing	Articulo	2004
The fisher-shannon information plane, an electron correlation tool	Journal of chemical physics	Articulo	2004
Asymptotics of information entropies of some toda-like potentials	Journal of mathematical physics	Articulo	2003
Diamagnetic informational exchange in hydrogenic avoided crossings	Chemical physics letters	Articulo	2003
Expansions in series of varying laguerre polynomials and some applications to molecular potentials.	Journal of computational and applied mathematics	Articulo	2003
Shannon entropy as an indicator of atomic avoided crossings in strong parallel magnetic and electric fields	Physical review letters	Articulo	2003
Distributions of zeros of discrete and continuous polynomials from their recurrence relation	Applied mathematics and computation	Articulo	2002
Quantuni-information entropies for highly excited states of single-particle systems with power-type potentials	Physical review a - atomic, molecular, and optical physics	Articulo	2002
Short-wave asymptotics of the information entropy of a circular membrane	International journal of bifurcation and chaos in applied sciences and engineering	Articulo	2002
Chebvychev polynomials in a speech			2001

recognition model	Applied mathematics letters	Articulo	2001
Entropias, potenciales y linealización de polinomios hipergeométricos	Universidad de almería.. estadística y matemática aplicada	Tesis doctoral	2001
Problema de momentos entropicos	Proceedings of the meeting of andalusian mathematicians	Capítulo de libro	2001
Quantum information entropies and orthogonal polynomials	Journal of computational and applied mathematics	Articulo	2001
Reconstruction of a density from its entropic moments	Bayesian inference and maximum entropy methods in science and engineering	Capítulo de libro	2001
Some connection and linearization problems for polynomials in and beyond the askey scheme	Journal of computational and applied mathematics	Articulo	2001
The hausdorff entropic moment problem	Journal of mathematical physics	Articulo	2001
Entropic integrals of orthogonal hypergeometric polynomials with general supports	Journal of computational and applied mathematics	Articulo	2000
Espectroscopia atómica en campos eléctricos y magnéticos intensos	Universidad de granada. física moderna	Tesis doctoral	2000
Functionals of gegenbauer polynomials and d-dimensional hydrogenic momentum expectation values	Journal of mathematical physics	Articulo	2000
Inverse atomic densities and inequalities among density functionals	Journal of mathematical physics	Articulo	2000
Linearization problems of hypergeometric polynomials in quantum physics	Advanced special functions and applications	Capítulo de libro	2000
On the non-convexity of charge densities in atoms and ions	Journal of molecular structure. theochem	Articulo	2000
Upper bounds to atomic electron densities in position and momentum spaces	Journal of mathematical chemistry	Articulo	2000
Asymptotics of the information entropy for jacobi and laguerre polynomials with varying weights	Journal of approximation theory	Articulo	1999
Electron-momentum densities of singly charged ions	Physical review a - atomic, molecular, and optical physics	Articulo	1999
Electron-pair densities of group 14, 15, and 16 atoms in their low-lying multiplet states	Journal of chemical physics	Articulo	1999
Electron-pair densities of group 2 atoms in their p-1 and p-3 terms	European physical journal d. atomic, molecular, optical and plasma physics	Articulo	1999
Entropic integrals of hyperspherical harmonics and spatial entropy of d-dimensional central potentials	Journal of mathematical physics	Articulo	1999
Expansion coefficients and moments of electron momentum densities for singly charged ions	Theoretical chemistry accounts	Articulo	1999
Fisher entropy and uncertaintylike relationships in many-body systems	Physical review a - atomic, molecular, and optical physics	Articulo	1999
General linearization formulae for products of continuous hypergeometric-type polynomials	Journal of physics a: mathematical and general	Articulo	1999
Electron momentum densities of atoms	Journal of chemical physics	Articulo	1998
Electron-pair center-of-mass-motion densities of atoms in position and momentum spaces	Physical review a - atomic, molecular, and optical physics	Articulo	1998
Electron-pair relative-motion densities of	Physical review a - atomic, molecular, and optical	Articulo	1998

atoms in position and momentum spaces	physics	Articulo	1998
Estudio de las densidades electronicas de carga, de momento y de pares en sistemas atomicos	Universidad de granada. física moderna	Tesis doctoral	1998
Expansions in series of orthogonal hypergeometric polynomials	Journal of computational and applied mathematics	Articulo	1998
Linearization and connection coefficients for hypergeometric- type polynomials	Journal of computational and applied mathematics	Articulo	1998
Modified clebsch-gordan-type expansions for products of discrete hypergeometric polynomials	Journal of computational and applied mathematics	Articulo	1998
Strong asymptotics of laguerre polynomials and information entropies of two-dimensional harmonic oscillator and one- dimensional coulomb potentials	Journal of mathematical physics	Articulo	1998
Analytical schwartz density applied to heavy two-electron ions	International journal of quantum chemistry	Articulo	1997
Information entropy of classical orthogonal polynomials and their application to the harmonic oscillator and coulomb potentials	Methods and applications of analysis	Articulo	1997
Structure of the electron momentum density of atomic systems	Zeitschrift für physik d atoms, molecules and clusters	Articulo	1997
The distribution of zeros of general q-polynomials	Journal of physics a: mathematical and general	Articulo	1997
Asymptotics for entropy integrals of orthogonal polynomials	Doklady. mathematics (print)	Articulo	1996
Entropia de informacion, polinomios ortogonales y sistemas multielectronicos	Universidad de granada. física moderna	Tesis doctoral	1996
Monotonicity properties of the atomic charge density function	International journal of quantum chemistry	Articulo	1996
The orthogonality properties of q-polynomials	Integral transforms and special functions	Articulo	1996
Algebraic and spectral properties of some quasi-orthogonal polynomials encountered in quantum radiation	Journal of mathematical physics	Articulo	1995
Distribution of zeros of gauss and kummer hypergeometric functions. a semiclassical approach	Annals of numerical mathematics	Articulo	1995
Ecuaciones diferenciales de tipo hipergeometrico: propiedades espectrales y algebraicas de sus soluciones. aplicaciones mecano-cuanticas	Universidad de granada. física moderna	Tesis doctoral	1995
Entropy of orthogonal polynomials with freud weights and information entropies of the harmonic-oscillator potential	Journal of mathematical physics	Articulo	1995
Information entropies of many-electron systems	International journal of quantum chemistry	Articulo	1995
On a new set of polynomials representing the wave functions of the quantum relativistic harmonic oscillator	Annals of numerical mathematics	Articulo	1995
The weizsacker functional - some rigorous results	International journal of quantum chemistry	Articulo	1995
The weizsacker functional. some rigorous results.	International journal of quantum chemistry	Articulo	1995
Asymptotic behavior of the norm and entropy			

Asymptotic behavior of q -norm and entropy for orthogonal polynomials	Doklady. mathematics (print)	Articulo	1994
Electron-electron coalescence and interelectronic log-moments in atomic systems	Proceedings of the indian academy of sciences. chemical sciences	Articulo	1994
Fundamental recurrence relations of functions of hypergeometric type and their derivatives of any order	Il nuovo cimento della società italiana di fisica. b: general physics, relativity, astronomy and mathematical physics an	Articulo	1994
Nonlinear characterizations for functions of hypergeometric type and their derivatives of an order	Journal of mathematical analysis and applications	Articulo	1994
Orthogonal polynomials and differential-equations in neutron-transport and radiative-transfer theories	Journal of computational and applied mathematics	Articulo	1994
Spatial entropy of central potentials and strong asymptotics of orthogonal polynomials	Journal of mathematical physics	Articulo	1994
Spectral properties of solutions of hypergeometric-type differential-equations	Journal of computational and applied mathematics	Articulo	1994
The 3-term recurrence relation and the differentiation formulas for hypergeometric-type functions	Journal of mathematical analysis and applications	Articulo	1994
Weizsacker energy of many-electron systems	Physical review a - atomic, molecular, and optical physics	Articulo	1994
Bounds to the central electron-pair density with applications to two-electron atoms	Physical review a - atomic, molecular, and optical physics	Articulo	1993
Charge monotonicity of atomic systems and radial expectation values	Zeitschrift für physik d atoms, molecules and clusters	Articulo	1993
Charge monotonicity of atomic systems and radial expectation values	Zeitschrift für physik d atoms, molecules and clusters	Articulo	1993
Electron-pair logarithmic convexity and interelectronic moments in atoms: application to heliumlike ions	Physical review a - atomic, molecular, and optical physics	Articulo	1993
New linear relationships of hypergeometric-type functions with applications to orthogonal polynomials	Rendiconti di matematica e delle sue applicazioni	Articulo	1993
Propiedades estructurales de los sistemas atomicos y monotonia de las densidades de carga, de momento y de pares electronicos	Universidad de granada. física moderna	Tesis doctoral	1993
Study of some interelectronic properties in helium-like atoms	Zeitschrift für physik d atoms, molecules and clusters	Articulo	1992
The electron-pair density of atomic systems: rigorous bounds and application to helium	Zeitschrift für physik d atoms, molecules and clusters	Articulo	1992
Tight rigorous bounds to atomic information entropies	Journal of chemical physics	Articulo	1992
Atomic systems with a completely monotonic electron density	Physical review a - atomic, molecular, and optical physics	Articulo	1991
Atomic-charge log-convexity and radial expectation values	Journal of physics b: atomic, molecular and optical physics	Articulo	1991
New bounds for the atomic charge and momentum densities	Zeitschrift für physik d atoms, molecules and clusters	Articulo	1991
Atomic-charge convexity and the electron density at the nucleus	Physical review a - atomic, molecular, and optical physics	Articulo	1990
Bounds to density-dependent quantities of d-			

dimensional many-particle systems in position and momentum spaces. applications to atomic systems	Physical review a - atomic, molecular, and optical physics	Articulo	1989
Rigorous lower bounds to average electron radial and momentum densities for atomic systems	Physical review a - atomic, molecular, and optical physics	Articulo	1989
Improved lower bounds for the atomic charge density at the nucleus	Journal of physics b: atomic, molecular and optical physics	Articulo	1988
Estudio de propiedades medias o globales de sistemas atomicos y nucleares	Universidad de granada. física moderna	Tesis doctoral	1986
Influencia de las corrientes mesónicas en la difusión magnética de electrones por núcleos de capa cerrada	Universidad de granada. física moderna	Tesis doctoral	1984
Rational jacobi matrices and certain quantum mechanical problems	Journal of physics a: mathematical and general	Articulo	1984

	Título proyecto	Tipo	Inicio	Fin
1	Física de la información, sistemas ultrafríos, no linealidad. aplicaciones multidisciplinares	Proyecto	1/1/12	12/31/15
2	Física de la información, sistemas ultrafríos y no-linealidad. aplicaciones multidisciplinares	Proyecto	1/1/12	12/31/15
3	Sistemas atómicos, moleculares y no-lineales: espectroscopia, fenómenos de transporte y medidas de información.	Proyecto	1/1/09	12/31/11
4	Física atómica y molecular	Proyecto	1/1/05	12/31/11
5	Entropías cuánticas (inv. rec. valía)	Proyecto	4/11/07	3/31/10
6	Funciones especiales, entropías cuánticas y aplicaciones bio- y nanotecnológicas	Proyecto	2/1/06	6/30/09
7	Propiedades espectroscópicas e informacionales de sistemas atómicos, moleculares y no-lineales	Proyecto	12/31/05	12/31/08
8	Moléculas en campos eléctricos intensos	Proyecto	2/8/05	2/8/06
9	Orthogonal polynomials: theory, applications and generalizations	Proyecto	9/1/03	8/31/05
10	Funcionales de la densidad de sistemas mecano-cuánticos	Proyecto	12/28/01	6/30/05
11	Física atómica y molecular	Proyecto	1/1/90	1/1/05
12	Acción coordinada entre los grupos de investigación fqm-207, fqm262 y fqm-229 (convocatoria 13/5/2003)	Proyecto	11/13/03	11/13/04
13	Acción coordinada entre los grupos de investigación fqm-207, fqm262 y fqm-229 (convocatoria 3/9/2002)	Proyecto	1/20/03	1/20/04
14	Funcionales de la densidad de sistemas fermiónicos	Proyecto	11/1/96	11/1/01
15	Análisis computacional de las resonancias de sistemas atómicos	Proyecto	1/1/98	12/31/99
16	Constructive complex analysis and density functionals	Proyecto	4/1/97	4/1/99
17	Constructive complex analysis and density functionals.	Proyecto	1/1/95	1/1/97
18	Dinámica de los sistemas fermiónicos	Proyecto	5/26/93	5/25/96
19	Física atómica y nuclear	Proyecto	5/29/93	5/28/95
20	Dinámica de los sistemas fermiónicos	Proyecto	8/2/91	8/1/93

Actividades 6

Título actividad	Fuente	Tipo	Fecha
Participación en: european physical society ()		Comité científico en sociedad ci	Jan 1, 1995
Participación en: american physical society ()		Comité científico en sociedad ci	Jan 1, 1990
Socio real sociedad española de física		Comité científico en sociedad ci	Jan 1, 1980
Participación en: american mathematical society ()		Comité científico en sociedad ci	Jan 1, 1990
Participación en: s. i.a.m. (society for industrial and applied mathematics) ()		Comité científico en sociedad ci	Jan 1, 1990
Participación en: real sociedad española de matemática ()		Comité científico en sociedad ci	Jan 1, 2004

Colaboradores

- **RAFAEL JOSÉ YÁÑEZ GARCÍA** (41)
- **JUAN CARLOS ANGULO IBÁÑEZ** (40)
- **PABLO SANCHEZ MORENO** (40)

- RODOLFO OCTAVIO ESQUIVEL OLEA (32)
- ELVIRA ROMERA GUTIÉRREZ (20)
- Irene Valero Toranzo (18)
- ANGEL RICARDO PLASTINO (17)
- JUAN ANTONIO ANTOLIN COMA (14)
- MARIA ROSARIO GONZÁLEZ FÉREZ (12)
- ALEJANDRO ZARZO ALTAREJOS (10)
- Daniel Manzano Diosdado (10)
- FRANCISCO JAVIER GÁLVEZ CIFUENTES (5)
- David Puertas Centeno (4)
- Peter Alexander Bouvrie Morales (4)
- ANA PAULA MAJTEY (3)
- BEATRIZ MONTSERRAT OLMOS SÁNCHEZ (3)
- JOSÉ IGNACIO PORRAS SÁNCHEZ (3)
- GLORIA CARBALLO GARCÍA (2)
- JOSE ANTONIO DOBADO JIMENEZ (2)
- JUAN JOSE OMISTE ROMERO (2)
- ENRIQUE BUENDÌA ÀVILA (1)
- JOAQUIN JAVIER TORRES AGUDO (1)
- JOAQUÍN SÁNCHEZ LARA (1)
- MANUEL PÉREZ-VICTORIA MORENO DE BARREDA (1)
- MARÍA DE LA CRUZ BOSCÁ DÍAZ-PINTADO (1)