Francisco Javier GÃilvez Cifuentes

List of Publications by Year in descending order

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Francisco Javier GÃilvez

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | One and two body densities for excited states of the helium confined atom. International Journal of Quantum Chemistry, 2020, 120, e26048. | 2.0 | 3 |
| 2 | Hund's rule in open-shell states of two-electron systems: From free through confined and screened atoms, to quantum dots. Nanosystems: Physics, Chemistry, Mathematics, 2019, 10, 31-41. | 0.4 | 2 |
| 3 | Study of the low energy spectrum of titanium by using QMC methods. Chemical Physics Letters, 2018, 693, 72-78. | 2.6 | Ο |
| 4 | Singlet vs. triplet interelectronic repulsion in confined atoms. Chemical Physics Letters, 2018, 702, 106-110. | 2.6 | 8 |
| 5 | Confinement effects on the electronic structure of M-shell atoms: A study with explicitly correlated wave functions. International Journal of Quantum Chemistry, 2017, 117, e25421. | 2.0 | 10 |
| 6 | Anisotropic multicluster model in light nuclei. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 065103. | 3.6 | 0 |
| 7 | Multi-configurational explicitly correlated wave functions for the study of confined many electron atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 145003. | 1.5 | 14 |
| 8 | Study of confined many electron atoms by means of the POEP method. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 185002. | 1.5 | 21 |
| 9 | Explicitly correlated wave functions for atoms and singly charged ions from Li through Sr: Variational and Diffusion Monte Carlo results. Chemical Physics Letters, 2014, 615, 21-25. | 2.6 | 2 |
| 10 | Quantum Monte Carlo ionization potential and electron affinity for transition metal atoms. Chemical Physics Letters, 2013, 559, 12-17. | 2.6 | 12 |
| 11 | Dynamical correlation effects in the transition probability: A study for the atoms Li to Ar. Chemical Physics Letters, 2012, 548, 1-6. | 2.6 | 1 |
| 12 | Relativistic, numerically parameterized, optimized, effective potentials for the ground state of the atoms He through Ra. Atomic Data and Nuclear Data Tables, 2011, 97, 109-133. | 2.4 | 4 |
| 13 | Relativistic quantum similarities in atoms in position and momentum spaces. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2544-2549. | 2.1 | 4 |
| 14 | Jastrow correlated and quantum Monte Carlo calculations for the low-lying states of the carbon atom. Journal of Chemical Physics, 2011, 134, 134102. | 3.0 | 9 |
| 15 | Relativistic effects on complexity indexes in atoms in position and momentum spaces. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3847-3853. | 2.1 | 10 |
| 16 | Near Degeneracy Effects on the Low-Lying Spectrum of the Iron Atom. Journal of Physical Chemistry A, 2010, 114, 1953-1956. | 2.5 | 3 |
| 17 | Quantum Monte Carlo ground state energies for the atoms Li through Ar. Journal of Chemical Physics, 2009, 131, 044115. | 3.0 | 12 |
| 18 | Explicitly correlated energies for neutral atoms and cations with 37⩽Z⩽54. Chemical Physics Letters, 2008, 465, 190-192. | 2.6 | 8 |

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| 19 | Optimized effective potential energies and ionization potentials for the atoms Li to Ra. European Physical Journal D, 2008, 50, 229-235. | 1.3 | 8 |
| 20 | Quantum Monte Carlo for 3d Transition-Metal Atoms. Journal of Physical Chemistry A, 2008, 112, 2074-2076. | 2.5 | 11 |
| 21 | State-dependent correlated wavefunctions forsd-shell nuclei. Journal of Physics C: Nuclear and Particle Physics, 2007, 34, 2129-2140. | 3.6 | 0 |
| 22 | Numerical-parameterized relativistic optimized effective potential for atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 3045-3056. | 1.5 | 5 |
| 23 | Jastrow correlations and near degeneracy effects in neutral atoms and cations with 3⩽Z⩽36. Chemical Physics Letters, 2007, 436, 352-356. | 2.6 | 17 |
| 24 | Correlated wave functions for the ground state of the atoms Li through Kr. Chemical Physics Letters, 2006, 428, 241-244. | 2.6 | 21 |
| 25 | Correlated wave functions to approach the bound excited states of Li- and Be European Physical Journal D, 2006, 40, 161-167. | 1.3 | 2 |
| 26 | Numerical-parameterized optimized effective potential for atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 3575-3585. | 1.5 | 12 |
| 27 | One- and two-body densities of carbon isoelectronic series in their low-lying multiplet states from explicitly correlated wave functions. Journal of Chemical Physics, 2006, 124, 044319. | 3.0 | 7 |
| 28 | Correlated wave functions for the ground and some excited states of the iron atom. Journal of Chemical Physics, 2006, 124, 154101. | 3.0 | 15 |
| 29 | Excited states of boron isoelectronic series from explicitly correlated wave functions. Journal of Chemical Physics, 2005, 122, 154307. | 3.0 | 18 |
| 30 | 1s22p3 and 1s22s23l, l=s,p,d, excited states of boron isoelectronic series from explicitly correlated wave functions. Journal of Chemical Physics, 2005, 123, 034302. | 3.0 | 14 |
| 31 | Parameterized optimized effective potential for the ground state of the atoms He through Xe. Atomic Data and Nuclear Data Tables, 2004, 88, 163-202. | 2.4 | 51 |
| 32 | Momentum space properties for the atoms helium to neon from energy-optimized explicitly correlated wave functions. International Journal of Quantum Chemistry, 2004, 99, 247-255. | 2.0 | 2 |
| 33 | Electron pair properties for the helium atom from explicitly correlated wave functions. Chemical Physics Letters, 2003, 370, 327-333. | 2.6 | 6 |
| 34 | Two-electron properties for the beryllium atom from explicitly correlated wavefunctions. Chemical Physics Letters, 2003, 378, 330-336. | 2.6 | 12 |
| 35 | A parametrized optimized effective potential for atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 4393-4402. | 1.5 | 36 |
| 36 | Simple correlated wave functions for the ground and some excited states ofsdshell nuclei. Physical Review C, 2003, 67, . | 2.9 | 4 |

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|----|--|-----|-----------|
| 37 | Excited states of beryllium isoelectronic series from explicitly correlated wave functions. Journal of Chemical Physics, 2003, 118, 6858-6867. | 3.0 | 15 |
| 38 | Excited states of beryllium atom from explicitly correlated wave functions. Journal of Chemical Physics, 2002, 117, 6071-6082. | 3.0 | 21 |
| 39 | Reply to Comment on `Correlated one-body momentum density for helium to neon atoms'. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 2191-2193. | 1.5 | 0 |
| 40 | Margenau–Brink alpha model with central Jastrow and linear state-dependent correlations for p-shell nuclei. Nuclear Physics A, 2002, 710, 29-41. | 1.5 | 4 |
| 41 | Variational Monte Carlo calculations for some cations and anions of the first-row atoms using explicitly correlated wave functions. International Journal of Quantum Chemistry, 2002, 87, 270-274. | 2.0 | 3 |
| 42 | Atomic properties from energy-optimized wave functions. Journal of Chemical Physics, 2001, 115, 1166-1171. | 3.0 | 30 |
| 43 | Variational calculation of some S-states of Coulomb three-body systems. European Physical Journal D, 2001, 13, 201-206. | 1.3 | 5 |
| 44 | Projected-deformed wavefunctions with central Jastrow and linear state-dependent correlations for8Be and12C. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 2211-2223. | 3.6 | 6 |
| 45 | Two-body densities and effective potentials. International Journal of Quantum Chemistry, 2000, 79, 75-81. | 2.0 | 1 |
| 46 | Central Jastrow and linear state-dependent correlations in nuclei. Journal of Physics G: Nuclear and Particle Physics, 2000, 26, 1795-1807. | 3.6 | 9 |
| 47 | Correlated one-electron and two-electron densities for the ground state of the lithium atom. Physical Review A, 2000, 61, . | 2.5 | 6 |
| 48 | Momentum space densities for the beryllium isoelectronic series. Journal of Chemical Physics, 2000, 113, 8631-8636. | 3.0 | 12 |
| 49 | Correlated one-body momentum density for helium to neon atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 2245-2255. | 1.5 | 21 |
| 50 | Correlated electron extracule densities in position and momentum spaces. Journal of Chemical Physics, 1999, 111, 3319-3326. | 3.0 | 32 |
| 51 | One- and two-body densities for the beryllium isoelectronic series. Journal of Chemical Physics, 1999, 111, 10903-10909. | 3.0 | 19 |
| 52 | Variational Monte Carlo calculation of two body properties in atoms: Importance sampling considerations. Computer Physics Communications, 1999, 121-122, 493-495. | 7.5 | 2 |
| 53 | Correlated two-electron momentum properties for helium to neon atoms. Journal of Chemical Physics, 1999, 110, 5721-5727. | 3.0 | 27 |
| 54 | Factored wave function for boundS-type states of two-electron atomic systems. International Journal of Quantum Chemistry, 1998, 68, 405-413. | 2.0 | 2 |

4

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|----|---|-----|-----------|
| 55 | A variational Monte Carlo study of the 2s-2p near degeneracy in beryllium, boron, and carbon atoms. Journal of Chemical Physics, 1998, 109, 3346-3351. | 3.0 | 19 |
| 56 | Correlated Monte Carlo electron-pair density for the atoms helium to neon. Journal of Chemical Physics, 1998, 109, 7075-7084. | 3.0 | 41 |
| 57 | Spatial generalizations of Kato's cusp condition for two-electron atoms with correlations. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 3803-3813. | 1.5 | 6 |
| 58 | Bounds for the electron density at the nucleus and for the intracule density at the coalescence point for two-electron atoms. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1995, 35, 163-167. | 1.0 | 0 |
| 59 | Properties of the atomic form factor: Applications and shell structure. International Journal of Quantum Chemistry, 1995, 56, 157-162. | 2.0 | 1 |
| 60 | Applications of some bounds to density functionals for atoms. International Journal of Quantum Chemistry, 1995, 56, 763-769. | 2.0 | 3 |
| 61 | Bounds for the atomic electronic density and related functions. Physical Review A, 1995, 51, 2857-2865. | 2.5 | 5 |
| 62 | Study of the singular anharmonic potentials by means of the analytic continuation method. Journal of Physics A, 1995, 28, 6731-6738. | 1.6 | 22 |
| 63 | Correlated one- and two-electron densities of low-lying S-states in helium-like atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 3123-3133. | 1.5 | 25 |
| 64 | Single-particle and electron-pair densities at the origin in the ground state of helium-like ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 5131-5137. | 1.5 | 21 |
| 65 | Calculations of the one- and two-body densities in two-electron atomic systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 4433-4441. | 1.5 | 11 |
| 66 | Lower bounds to density-dependent quantities of atoms in terms of logarithmic expectation values. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 3991-3998. | 1.5 | 6 |
| 67 | New bounds for the atomic charge and momentum densities at the origin. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1991, 18, 127-130. | 1.0 | 18 |
| 68 | Improved lower bounds to the total atomic kinetic energy and other density-dependent quantities. Journal of Physics B: Atomic, Molecular and Optical Physics, 1991, 24, 3343-3350. | 1.5 | 6 |
| 69 | Atomic charge density at the nucleus and inequalities among radial expectation values. Physical Review A, 1991, 44, 144-147. | 2.5 | 36 |
| 70 | Inequalities between radial and momentum expectation values of atoms, molecules, and nuclei. Physical Review A, 1990, 41, 4052-4055. | 2.5 | 15 |
| 71 | Atomic-charge convexity and the electron density at the nucleus. Physical Review A, 1990, 42, 641-644. | 2.5 | 29 |
| 72 | Rigorous lower bounds to average electron radial and momentum densities for atomic systems. Physical Review A, 1989, 39, 494-500. | 2.5 | 16 |

5

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|----|---|-----|-----------|
| 73 | Bounds to density-dependent quantities ofD-dimensional many-particle systems in position and momentum spaces: Applications to atomic systems. Physical Review A, 1989, 40, 35-40. | 2.5 | 39 |
| 74 | Lower bounds on the electronic charge and momentum densities of spherical atoms at the origin. Physical Review A, 1989, 39, 501-505. | 2.5 | 14 |
| 75 | Rigorous bounds to density-dependent quantities ofD-dimensional many-fermion systems. Physical Review A, 1988, 37, 3634-3637. | 2.5 | 18 |
| 76 | Lower bounds on the electronic charge and momentum densities of atomic systems at the origin. Physical Review A, 1988, 37, 3154-3157. | 2.5 | 10 |
| 77 | 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 |
| 78 | On two sets of orthogonal polynomial systems encountered in nonlinear physics. Journal of Physics A, 1987, 20, 5489-5495. | 1.6 | 0 |
| 79 | Level density of physical systems with Lanczos-type Hamiltonians. Physical Review A, 1987, 36, 933-936. | 2.5 | 2 |
| 80 | Bounds for kinetic and exchange energies of fermion systems. Physical Review A, 1987, 35, 2384-2388. | 2.5 | 24 |
| 81 | Quantum systems with a common density of levels. II. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 122, 385-388. | 2.1 | 3 |
| 82 | Quantum systems with a common density of levels. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 113, 454-458. | 2.1 | 5 |
| 83 | 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 |
| 84 | Bounds to the extreme eigenvalues of the Lanczos Hamiltonian of a quantum system. Journal of Physics A, 1985, 18, 2399-2402. | 1.6 | 0 |
| 85 | Quantum systems with uniform- and regular-level-energy behaviors. Physical Review A, 1985, 32, 625-626. | 2.5 | 3 |
| 86 | Some open problems of generalised Bessel polynomials. Journal of Physics A, 1984, 17, 2759-2766. | 1.6 | 19 |