
Documents

Corzo, H.H., Castaño, E., Laguna, H.G., Sagar, R.P.
Measuring localization-delocalization phenomena in a quantum corral
(2013) *Journal of Mathematical Chemistry*, 51 (1), pp. 179-193.

Document Type: Article

Source: Scopus

Laguna, H.G., Sagar, R.P.
Positionmomentum correlations in the Moshinsky atom
(2012) *Journal of Physics A: Mathematical and Theoretical*, 45 (2), art. no. 025307, . Cited 1 time.

Document Type: Article

Source: Scopus

Corzo, H.H., Laguna, H.G., Sagar, R.P.
Localization-delocalization phenomena in a cyclic box
(2012) *Journal of Mathematical Chemistry*, 50 (1), pp. 233-248. Cited 1 time.

Document Type: Article

Source: Scopus

Sagar, R.P., Laguna, H.G., Guevara, N.L.
Electron pair density information measures in atomic systems
(2011) *International Journal of Quantum Chemistry*, 111 (14), pp. 3497-3504. Cited 1 time.

Document Type: Article

Source: Scopus

Sagar, R.P., Laguna, H.G., Guevara, N.L.
Statistical correlation between atomic electron pairs
(2011) *Chemical Physics Letters*, 514 (4-6), pp. 352-356.

Document Type: Article

Source: Scopus

Laguna, H.G., Sagar, R.P.
Statistical correlations in the Moshinsky atom
(2011) *Physical Review A - Atomic, Molecular, and Optical Physics*, 84 (1), art. no. 012502, . Cited 5 times.

Document Type: Article

Source: Scopus

Laguna, H.G., Sagar, R.P.
Indistinguishability and correlation in model systems
(2011) *Journal of Physics A: Mathematical and Theoretical*, 44 (18), art. no. 185302, . Cited 1 time.

Document Type: Article

Source: Scopus

Laguna, H.G., Sagar, R.P.

Shannon entropy of the wigner function and position-momentum correlation in model systems
(2010) *International Journal of Quantum Information*, 8 (7), pp. 1089-1100. Cited 1 time.

Document Type: Article

Source: Scopus

Sagar, R.P., Laguna, H.G., Guevara, N.L.

Conditional entropies and position-momentum correlations in atomic systems
(2009) *Molecular Physics*, 107 (19), pp. 2071-2080. Cited 4 times.

Document Type: Article

Source: Scopus

Sagar, R.P., Guevara, N.L.

Relative entropy and atomic structure

(2008) *Journal of Molecular Structure: THEOCHEM*, 857 (1-3), pp. 72-77. Cited 10 times.

Document Type: Article

Source: Scopus

Sagar, R.P., Hô, M.

Shannon entropies of atomic basins and electron correlation effects

(2008) *Journal of the Mexican Chemical Society*, 52 (1), pp. 60-66. Cited 2 times.

Document Type: Article

Source: Scopus

Sagar, R.P., Guevara, N.L.

Shannon entropies of atomic structure factors, off-diagonal order and radial correlation

(2007) *Molecular Physics*, 105 (10), pp. 1359-1368.

Document Type: Article

Source: Scopus

Sagar, R.P., Guevara, N.L.

Local correlation measures and atomic shell structure

(2007) *Chemical Physics Letters*, 438 (4-6), pp. 330-335.

Document Type: Article

Source: Scopus

Sagar, R.P., Guevara, N.L.

Mutual information and electron correlation in momentum space

(2006) *Journal of Chemical Physics*, 124 (13), art. no. 134101, . Cited 13 times.

Document Type: Article

Source: Scopus

Sagar, R.P., Guevara, N.L.

Mutual information and correlation measures in atomic systems

(2005) *Journal of Chemical Physics*, 123 (4), art. no. 044108, . Cited 14 times.

Document Type: Article

Source: Scopus

Guevara, N.L., Sagar, R.P., Esquivel, R.O.

Local correlation measures in atomic systems

(2005) *Journal of Chemical Physics*, 122 (8), art. no. 084101, . Cited 30 times.

Document Type: Article

Source: Scopus

Guevara, N.L., Sagar, R.P., Esquivel, R.O.

Information uncertainty-type inequalities in atomic systems

(2003) *Journal of Chemical Physics*, 119 (14), pp. 7030-7036. Cited 30 times.

Document Type: Article

Source: Scopus

Soriano-Correa, C., Esquivel, R.O., Sagar, R.P.

Physicochemical and structural properties of bacteriostatic sulfonamides: Theoretical study

(2003) *International Journal of Quantum Chemistry*, 94 (3), pp. 165-172. Cited 10 times.

Document Type: Article

Source: Scopus

Guevara, N.L., Sagar, R.P., Esquivel, R.O.

Shannon-information entropy sum as a correlation measure in atomic systems

(2003) *Physical Review A - Atomic, Molecular, and Optical Physics*, 67 (1), pp. 012507/1-012507/6. Cited 44 times.

Document Type: Article

Source: Scopus

Sagar, R.P., Ramírez, J.C., Esquivel, R.O., Hô, M., Smith Jr., V.H.

Relationships between Jaynes entropy of the one-particle density matrix and Shannon entropy of the electron densities

(2002) *Journal of Chemical Physics*, 116 (21), pp. 9213-9221. Cited 11 times.

Document Type: Article

Source: Scopus

Sagar, R.P., Ramírez, J.C., Esquivel, R.O., Hô, M., Smith Jr., V.H.

Shannon entropies and logarithmic mean excitation energies from cusp- and asymptotic-constrained model densities

(2001) *Physical Review A - Atomic, Molecular, and Optical Physics*, 63 (2), pp. 1-7. Cited 2 times.

Document Type: Article

Source: Scopus

Hô, M., Smith Jr., V.H., Sagar, R.P., Esquivel, R.O.

Asymptotic behaviour of the ratio of density gradient to electron density for atomic systems

(2001) *Molecular Physics*, 99 (20), pp. 1727-1728.

Document Type: Article

Source: Scopus

Sagar, R.P., Ramírez, J.C., Esquivel, R.O., Hô, M., Smith Jr., V.H.

Shannon entropies and logarithmic mean excitation energies from cusp- and asymptotic-constrained model densities

(2001) *Physical Review A - Atomic, Molecular, and Optical Physics*, 63 (2), pp. 022509-022501. Cited 13 times.

Document Type: Article**Source:** Scopus

Catalina Soriano, C., Esquivel, R.O., Sagar, R.P.

Cálculos ab initio de agentes anti-lepra comparando sus estructuras y propiedades fisicoquímicas con un conjunto de compuestos análogos

(2000) *Revista Mexicana de Fisica*, 46 (5 SUPPL. 2), pp. 108-112.

Document Type: Article**Source:** Scopus

Hô, M., Clark, B.J., Smith Jr., V.H., Weaver, D.F., Gatti, C., Sagar, R.P., Esquivel, R.O.

Shannon information entropies of molecules and functional groups in the self-consistent reaction field

(2000) *Journal of Chemical Physics*, 112 (17), pp. 7572-7580. Cited 10 times.

Document Type: Article**Source:** Scopus

Ho, M., Schmider, H.L., Weaver, D.F., Smith Jr., V.H., Sagar, R.P., Esquivel, R.O.

Shannon Entropy of Chemical Changes: S N2 Displacement Reactions

(2000) *International Journal of Quantum Chemistry*, 77 (1), pp. 376-382. Cited 17 times.

Document Type: Article**Source:** Scopus

Ho, M., Weaver, D.F., Smith Jr., V.H., Sagar, R.P., Esquivel, R.O.

Calculating the logarithmic mean excitation energy from the Shannon information entropy of the electronic charge density

(1998) *Physical Review A - Atomic, Molecular, and Optical Physics*, 57 (6), pp. 4512-4517. Cited 19 times.

Document Type: Article**Source:** Scopus

Hô, M., Weaver, D.F., Smith Jr., V.H., Sagar, R.P., Esquivel, R.O., Yamamoto, S.

An information-entropic study of correlated densities of the water molecule

(1998) *Journal of Chemical Physics*, 109 (24), pp. 10620-10627. Cited 18 times.

Document Type: Article**Source:** Scopus

Ramírez, J.C., Pérez, J.M.H., Sagar, R.P., Esquivel, R.O., Hö, M., Smith Jr., V.H.

Amount of information present in the one-particle density matrix and the charge density

(1998) *Physical Review A - Atomic, Molecular, and Optical Physics*, 58 (5), pp. 3507-3515. Cited 21 times.

Document Type: Article**Source:** Scopus

Hô, M., Smith Jr., V.H., Weaver, D.F., Gatti, C., Sagar, R.P., Esquivel, R.O.

Molecular similarity based on information entropies and distances

(1998) *Journal of Chemical Physics*, 108 (13), pp. 5469-5475. Cited 55 times.

Document Type: Article**Source:** Scopus

Ramírez, J.C., Soriano, C., Esquivel, R.O., Sagar, R.P., Hö, M., Smith Jr., V.H.

Jaynes information entropy of small molecules: Numerical evidence of the Collins conjecture

(1997) *Physical Review A - Atomic, Molecular, and Optical Physics*, 56 (6), pp. 4477-4482. Cited 24 times.

Document Type: Article

Source: Scopus

Esquivel, R.O., Rodríguez, A.L., Sagar, R.P., Hô, M., Smith Jr., V.H.

Physical interpretation of information entropy: Numerical evidence of the Collins conjecture

(1996) *Physical Review A - Atomic, Molecular, and Optical Physics*, 54 (1), pp. 259-265. Cited 27 times.

Document Type: Article

Source: Scopus

Tripathi, A.N., Smith Jr., V.H., Sagar, R.P., Esquivel, R.O.

Electron correlation in momentum space for the neon-atom isoelectronic sequence from F - through Ar 8+

(1996) *Physical Review A - Atomic, Molecular, and Optical Physics*, 54 (3), pp. 1877-1883. Cited 26 times.

Document Type: Article

Source: Scopus

Angulo, J.C., Schmider, H., Sagar, R.P., Smith Jr., V.H.

Nonconvexity of the atomic charge density and shell structure

(1994) *Physical Review A*, 49 (2), pp. 726-728. Cited 8 times.

Document Type: Article

Source: Scopus

Schmider, H., Sagar, R.P., Smith Jr., V.H.

Density differences for near-Hartree-Fock atomic wave functions

(1994) *Physical Review A*, 49 (5), pp. 4229-4231.

Document Type: Article

Source: Scopus

Ho, M., Sagar, R.P., Smith, V.H., Esquivel, R.O.

Atomic information entropies beyond the Hartree-Fock limit

(1994) *Journal of Physics B: Atomic, Molecular and Optical Physics*, 27 (21), pp. 5149-5157. Cited 24 times.

Document Type: Article

Source: Scopus

Schmider, H., Sagar, R.P., Smith, V.H.

Atomic moment densities in position and momentum spaces

(1994) *Proceedings of the Indian Academy of Sciences - Chemical Sciences*, 106 (2), pp. 133-142. Cited 6 times.

Document Type: Article

Source: Scopus

Hô, M., Sagar, R.P., Pérez-Jordá, J.M., Smith Jr., V.H., Esquivel, R.O.

A numerical study of molecular information entropies

(1994) *Chemical Physics Letters*, 219 (1-2), pp. 15-20. Cited 29 times.

Document Type: Article

Source: Scopus

Esquivel, R.O., Sagar, R.P., Smith Jr., V.H., Chen, J., Stott, M.J.

Pseudoconvexity of the atomic electron density: A numerical study

(1993) *Physical Review A*, 47 (6), pp. 4735-4748. Cited 17 times.

Document Type: Article

Source: Scopus

Esquivel, R.O., Chen, J., Stott, M.J., Sagar, R.P., Smith, V.H.

Pseudoconvexity of the atomic electron density: Lower and upper bounds

(1993) *Physical Review A*, 47 (2), pp. 936-943. Cited 18 times.

Document Type: Article

Source: Scopus

Wang, J.H., Sagar, R.P., Schmider, H., Smith, V.H.

X-ray elastic and inelastic scattering factors for neutral atoms Z = 2-92

(1993) *Atomic Data and Nuclear Data Tables*, 53 (2), pp. 233-269. Cited 19 times.

Document Type: Article

Source: Scopus

Sagar, R.P., Esquivel, R.O., Schmider, H., Tripathi, A.N., Smith Jr., V.H.

Nonmonotonicity of the atomic electron momentum density

(1993) *Physical Review A*, 47 (4), pp. 2625-2627. Cited 6 times.

Document Type: Article

Source: Scopus

Schmider, H., Esquivel, R.O., Sagar, R.P., Smith Jr., V.H.

Spin magnetic form factors for lithium and its isoelectronic series in position and momentum space

(1993) *Journal of Physics B: Atomic, Molecular and Optical Physics*, 26 (17), pp. 2943-2955. Cited 10 times.

Document Type: Article

Source: Scopus

Sagar, R.P., Schmider, H., Smith Jr., V.H.

Asymptotic approximations from quadrature rules

(1992) *Physical Review A*, 45 (9), pp. 6253-6258.

Document Type: Article

Source: Scopus

Sagar, R.P., Schmider, H., Smith Jr., V.H.

Evaluation of Fourier transforms by Gauss-Laguerre quadratures

(1992) *Journal of Physics A: Mathematical and General*, 25 (1), art. no. 023, pp. 189-195. Cited 2 times.

Document Type: Review

Source: Scopus

Tripathi, A.N., Sagar, R.P., Esquivel, R.O., Smith Jr., V.H.

Electron correlation in momentum space: The beryllium-atom isoelectronic sequence

(1992) *Physical Review A*, 45 (7), pp. 4385-4392. Cited 23 times.

Document Type: Article

Source: Scopus

Esquivel, R.O., Tripathi, A.N., Sagar, R.P., Smith, V.H.

Accurate one-electron momentum-space properties for the lithium isoelectronic sequence

(1992) *Journal of Physics B: Atomic, Molecular and Optical Physics*, 25 (13), pp. 2925-2941. Cited 16 times.

Document Type: Article

Source: Scopus

Schmider, H., Sagar, R.P., Smith Jr., V.H.

On the determination of atomic shell boundaries

(1991) *The Journal of Chemical Physics*, 94 (12), pp. 8627-8629. Cited 12 times.

Document Type: Note

Source: Scopus

Westgate, W.M., Sagar, R.P., Farazdel, A., Smith Jr., V.H., Simas, A.M., Thakkar, A.J.

Momentum-space properties of the neutral atoms from H through U

(1991) *Atomic Data and Nuclear Data Tables*, 48 (2), pp. 213-229. Cited 11 times.

Document Type: Article

Source: Scopus

Schmider, H., Sagar, R.P., Smith Jr., V.H.

Does the atomic structure factor show atomic structure?

(1991) *The Journal of Chemical Physics*, 94 (6), pp. 4346-4351. Cited 5 times.

Document Type: Article

Source: Scopus

Sagar, R.P.

A Gaussian quadrature for the calculation of generalized Fermi-Dirac integrals

(1991) *Computer Physics Communications*, 66 (2-3), pp. 271-275. Cited 10 times.

Document Type: Article

Source: Scopus

Sagar, R.P.

On the evaluation of the Fermi-Dirac integrals

(1991) *Astrophysical Journal Letters*, 376 (1), pp. 364-366. Cited 1 time.

Document Type: Review

Source: Scopus

Sagar, R.P., Smith Jr., V.H., Simas, A.M.

A Gaussian quadrature for the optimal evaluation of integrals involving Lorentzians over a semi-infinite interval

(1991) *Computer Physics Communications*, 62 (1), pp. 16-24. Cited 1 time.

Document Type: Article

Source: Scopus

Sagar, R.P., Ku, A.C.T., Smith Jr., V.H., Simas, A.M.

Topographical features of the Laplacian of the momentum density of atoms and ions most indicative of shell structure

(1989) *The Journal of Chemical Physics*, 90 (11), pp. 6520-6527. Cited 8 times.

Document Type: Article

Source: Scopus

Sagar, R.P., Ku, A.C.T., Smith Jr., V.H., Simas, A.M.

The Laplacian of the charge density and Its relationship to the shell structure of atoms and ions

(1987) *The Journal of Chemical Physics*, 88 (7), pp. 4367-4374. Cited 1 time.

Document Type: Article

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