

Juan Antolin

List of Publications by Year in descending order

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51
papers

1,094
citations

471061

17
h-index

414034

32
g-index

51
all docs

51
docs citations

51
times ranked

343
citing authors

#	ARTICLE	IF	CITATIONS
1	Fisher-Shannon plane and statistical complexity of atoms. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 670-674.	0.9	110
2	Fisher-Shannon analysis of ionization processes and isoelectronic series. Physical Review A, 2007, 76, .	1.0	77
3	Atomic complexity measures in position and momentum spaces. Journal of Chemical Physics, 2008, 128, 164109.	1.2	77
4	Analysis of complexity measures and information planes of selected molecules in position and momentum spaces. Physical Chemistry Chemical Physics, 2010, 12, 7108.	1.3	67
5	Fisher Information and Steric Effect: Study of the Internal Rotation Barrier of Ethane. Journal of Physical Chemistry A, 2011, 115, 4406-4415.	1.1	64
6	Fisher Information Study in Position and Momentum Spaces for Elementary Chemical Reactions. Journal of Chemical Theory and Computation, 2010, 6, 145-154.	2.3	60
7	Fisher and Jensen-Shannon divergences: Quantitative comparisons among distributions. Application to position and momentum atomic densities. Journal of Chemical Physics, 2009, 130, 074110.	1.2	49
8	Phenomenological description of the transition state, and the bond breaking and bond forming processes of selected elementary chemical reactions: an information-theoretic study. Theoretical Chemistry Accounts, 2009, 124, 445-460.	0.5	45
9	Rigorous properties and uncertainty-like relationships on product-complexity measures: Application to atomic systems. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 2081-2091.	1.2	44
10	Complexity analysis of ionization processes and isoelectronic series. International Journal of Quantum Chemistry, 2009, 109, 586-593.	1.0	38
11	Maximum-entropy technique with logarithmic constraints: Estimation of atomic radial densities. European Physical Journal D, 1999, 7, 479-485.	0.6	36
12	Atomic quantum similarity indices in position and momentum spaces. Journal of Chemical Physics, 2007, 126, 044106.	1.2	33
13	Renyi complexities and information planes: Atomic structure in conjugated spaces. Chemical Physics Letters, 2009, 474, 233-237.	1.2	28
14	Quantum entanglement and the dissociation process of diatomic molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 175101.	0.6	24
15	Phenomenological description of selected elementary chemical reaction mechanisms: An information-theoretic study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 948-951.	0.9	23
16	Divergence analysis of atomic ionization processes and isoelectronic series. Physical Review A, 2009, 80, .	1.0	22
17	Information-theoretical complexity for the hydrogenic abstraction reaction. Molecular Physics, 2011, 109, 2353-2365.	0.8	22
18	Quantum similarity indices for atomic ionization processes. European Physical Journal D, 2008, 46, 21-26.	0.6	17

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19	Phenomenological Description of a Three-Center Insertion Reaction: An Information-Theoretic Study. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1906-1916.	1.1	17
20	Maximum-entropy analysis of the electron-pair density in many-electron systems. <i>Physical Review A</i> , 1994, 50, 240-246.	1.0	16
21	Concurrent phenomena at the transition region of selected elementary chemical reactions: An information-theoretical complexity analysis. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 3578-3586.	1.0	16
22	Jensen's Tsallis divergence and atomic dissimilarity for position and momentum space electron densities. <i>Journal of Chemical Physics</i> , 2010, 132, 044105.	1.2	15
23	Bounds on the $KN\hat{\epsilon}^2$ coupling constant from positivity and charge-exchange data. <i>Physical Review D</i> , 1987, 35, 122-127.	1.6	14
24	Upper and lower bounds on the radial electron density in atoms. <i>Physical Review A</i> , 1993, 48, 4149-4155.	1.0	14
25	A simultaneous calculation of the $KN\hat{\epsilon}/2$ and $KN\hat{\epsilon}^2/2$ coupling constants. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1986, 31, 417-420.	1.5	13
26	Minimum-cross-entropy estimation of atomic charge densities from scattering factors. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 577-586.	0.6	13
27	Jensen's Shannon divergence in conjugate spaces: The entropy excess of atomic systems and sets with respect to their constituents. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 899-907.	1.2	13
28	A generalized relative complexity: Application to atomic one-particle densities. <i>Chemical Physics Letters</i> , 2012, 539-540, 191-196.	1.2	11
29	Information-theoretical complexity for the hydrogenic identity S_N exchange reaction. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 1882-1900.	0.7	10
30	Rigorous bounds on the reduced coupling constant of the $K\hat{\epsilon}\pm p$ forward elastic amplitude. <i>Journal of Physics G: Nuclear Physics</i> , 1986, 12, 297-315.	0.8	9
31	Generalized Quantum Similarity Index: Applications in atoms. <i>Chemical Physics Letters</i> , 2011, 506, 326-331.	1.2	9
32	Generalized Jensen divergence analysis of atomic electron densities in conjugated spaces. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 297-306.	1.0	8
33	Jensen's Tsallis divergence and atomic dissimilarity for ionized systems in conjugated spaces. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 769-780.	1.2	8
34	Maximum-entropy analysis of momentum densities in diatomic molecules. <i>International Journal of Quantum Chemistry</i> , 1997, 61, 77-83.	1.0	7
35	Information-theoretical analysis for the $S_{N₂}$ exchange reaction $CH_3 + F^{\sim}$. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 2589-2599.	1.0	7
36	A study of the atomic momentum density by means of radial expectation values. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 4663-4669.	0.6	6

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37	Uncertainty inequalities among frequency moments and radial expectation values: Applications to atomic systems. <i>Journal of Mathematical Physics</i> , 2012, 53, 043512.	0.5	6
38	Reciprocal form factors from momentum density magnitudes. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, 5629-5635.	0.6	5
39	Theoretic-information entropies analysis of nanostructures: <i>ab initio</i> study of PAMAM precursors and dendrimers G0 to G3. <i>Molecular Simulation</i> , 2009, 35, 498-511.	0.9	5
40	Geometric Rényi divergence: A comparative measure with applications to atomic densities. <i>Physical Review A</i> , 2011, 84, .	1.0	5
41	Study of data on the associated momentum on the trigger side in highP T hadron production. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1980, 6, 21-26.	1.5	4
42	A Stieltjes extrapolation to the unphysical cut of the $K\pi$ forward elastic amplitude. <i>Journal of Physics G: Nuclear Physics</i> , 1986, 12, 947-957.	0.8	4
43	Rigorous bounds to the atomic ionization potential. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, L431-L435.	0.6	4
44	Maximum-entropy analysis of atomic Compton profiles. <i>International Journal of Quantum Chemistry</i> , 1995, 56, 747-752.	1.0	4
45	Tight approximations to total scattering intensities from electron-pair density quantities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 230, 324-329.	0.9	4
46	Fisher-like atomic divergences: Mathematical grounds and physical applications. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 5552-5563.	1.2	4
47	Minimum-cross-entropy estimation of electron-pair densities from scattering intensities. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 260, 247-252.	0.9	3
48	Minimum cross-entropy estimation of internally folded densities from Compton profiles. <i>International Journal of Quantum Chemistry</i> , 2002, 87, 214-219.	1.0	2
49	Effect of the interelectronic repulsion on the information content of position and momentum atomic densities. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 1738-1747.	1.0	2
50	Quark fragmentation and trigger side momentum distributions in high-p T processes. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1981, 8, 119-129.	1.5	0
51	Information Planes and Complexity Measures for Atomic Systems, Ionization Processes and Isoelectronic Series. <i>Progress in Theoretical Chemistry and Physics</i> , 2009, , 417-434.	0.2	0