

Andres Cedillo

List of Publications by Year in descending order

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49
papers

1,658
citations

430754

18
h-index

289141

40
g-index

50
all docs

50
docs citations

50
times ranked

1239
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrodonating and Electroaccepting Powers. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1966-1970.	1.1	540
2	Variational method for determining the Fukui function and chemical hardness of an electronic system. <i>Journal of Chemical Physics</i> , 1995, 103, 7645-7646.	1.2	138
3	Fukui function from a gradient expansion formula, and estimate of hardness and covalent radius for an atom. <i>Journal of Chemical Physics</i> , 1995, 103, 10621-10626.	1.2	89
4	Reactivity indices and fluctuation formulas in density functional theory: Isomorphic ensembles and a new measure of local hardness. <i>Journal of Chemical Physics</i> , 1995, 103, 8548-8556.	1.2	88
5	Reactivity indicators for degenerate states in the density-functional theoretic chemical reactivity theory. <i>Journal of Chemical Physics</i> , 2011, 134, 174103.	1.2	74
6	Appraisal of Chemical Bond Making, Bond Breaking, and Electron Transfer in Solution in the Light of the Principle of Maximum Hardness. <i>Journal of Organic Chemistry</i> , 1995, 60, 4707-4714.	1.7	65
7	Nucleophilicity Index from Perturbed Electrostatic Potentials. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2442-2447.	1.1	59
8	Atoms-in-molecules partitioning of a molecular density. <i>International Journal of Quantum Chemistry</i> , 2000, 77, 403-407.	1.0	58
9	Chemical softness in model electronic systems: dependence on temperature and chemical potential. <i>Chemical Physics</i> , 1996, 204, 429-437.	0.9	57
10	Comparison between the frozen core and finite differences approximations for the generalized spin-dependent global and local reactivity descriptors in small molecules. <i>Theoretical Chemistry Accounts</i> , 2006, 115, 257-265.	0.5	53
11	Koopmans-like Approximation in the Kohn-Sham Method and the Impact of the Frozen Core Approximation on the Computation of the Reactivity Parameters of the Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2005, 109, 8880-8892.	1.1	44
12	The variations of the hardness and the Kohn-Sham Fukui function under an external perturbation. <i>Journal of Chemical Physics</i> , 1999, 110, 9807-9811.	1.2	35
13	The Markovnikov Regioselectivity Rule in the Light of Site Activation Models. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7844-7849.	1.1	31
14	A new representation for ground states and its legendre transforms. <i>International Journal of Quantum Chemistry</i> , 1994, 52, 231-240.	1.0	29
15	Gas phase Lewis acidity and basicity scales for boranes, phosphines and amines based on the formation of donor-acceptor complexes. <i>Computational and Theoretical Chemistry</i> , 2013, 1011, 44-56.	1.1	29
16	A perturbative approach to the Thomas-Fermi equation in terms of the density. <i>Journal of Mathematical Physics</i> , 1993, 34, 2713-2717.	0.5	27
17	REACTIVITY CRITERIA IN SPIN-POLARIZED DENSITY FUNCTIONAL THEORY. , 2002, , 936-965.		25
18	Quantum Mechanical Tunneling through Barriers: A Spreadsheet Approach. <i>Journal of Chemical Education</i> , 2000, 77, 528.	1.1	20

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19	Charge transfer and adsorption energies in the iodine–Pt(111) interaction. <i>Surface Science</i> , 2005, 581, 58-65.	0.8	20
20	New nonlocal exchange-energy functional from a kinetic-energy-density Pad�-approximant model. <i>Physical Review A</i> , 1988, 38, 1697-1701.	1.0	19
21	Global and Local Reactivity and Activation Patterns of HOOX (X = H, NO ₂ , CO ₂ -, SO ₃ -) Peroxides with Solvent Effects. <i>Journal of Physical Chemistry A</i> , 2003, 107, 10098-10104.	1.1	16
22	Bond Fukui indices: Comparison of frozen molecular orbital and finite differences through Mulliken populations. <i>Journal of Computational Chemistry</i> , 2013, 34, 2421-2429.	1.5	14
23	On the Existence of Electronic States Confined by Charged Groups in Proteins. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1692-1697.	1.2	13
24	Solvent effects on the energetic parameters and chemical reactivity in the keto–enol tautomeric equilibrium of substituted carbonyl compounds. <i>Computational and Theoretical Chemistry</i> , 2012, 994, 47-53.	1.1	11
25	Self-consistent methods constrained to a fixed number of particles in a given fragment and its relation to the electronegativity equalization method. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	11
26	H�ckel-type semiempirical implementation of a variational method for determining electronic band gaps. <i>Journal of Chemical Physics</i> , 1996, 105, 9557-9560.	1.2	10
27	Stability of the different AlOOH phases under pressure. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 185401.	0.7	10
28	Performance of density functional theory methods to describe intramolecular hydrogen shifts. <i>Journal of Chemical Sciences</i> , 2005, 117, 555-560.	0.7	9
29	Molecular Fragments in Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4535-4537.	1.1	9
30	Wave function instabilities in the cis–trans isomerization and singlet–triplet energy gaps in a push–pull compound. <i>Journal of Chemical Physics</i> , 2003, 119, 4112-4116.	1.2	7
31	An exchange energy functional based on the Dirac and the Fermi–Amaldi approximations. <i>Journal of Chemical Physics</i> , 1986, 85, 7188-7192.	1.2	6
32	Br ₂ dissociation in water clusters: the catalytic role of water. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	0.5	5
33	Interatomic interactions in density functional theory. <i>International Journal of Quantum Chemistry</i> , 1986, 29, 937-948.	1.0	4
34	On the Principle of Spin Potential Equalization. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1390-1396.	1.1	4
35	The density response kernel, the Fukui function, and other response functions from the Kohn–Sham orbitals. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	0.5	4
36	Soft–Soft interactions in the protein–protein recognition process: The K ⁺ channel–charybdotoxin case. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 3618-3623.	1.0	3

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37	Chemical reactivity of the frustrated Lewis pairs in borophosphines: a theoretical analysis of their Lewis acidity, Lewis basicity and Fukui function. <i>Journal of Molecular Modeling</i> , 2018, 24, 238.	0.8	3
38	Reactivity of Carbon Molecular Clusters from a Hückel-Type Model. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8696-8701.	1.1	3
39	Shape Function. , 2009, , .		3
40	Theoretical estimation of the electron affinity of enolate radicals. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 1031-1035.	1.0	2
41	Comment on "Power Law Distribution Concerning Absolute Free Energies of Linear Sulfur Chains, Polythiazyls, Polyisoprenes, Linear <i>trans</i> -Polyenes, and Polyynes" <i>Journal of Physical Chemistry A</i> , 2019, 123, 7540-7541.	1.1	2
42	The Role of the Density Response Kernel in the Protonation Process. <i>Journal of Physical Chemistry A</i> , 2020, 124, 858-863.	1.1	2
43	Chapter 2 Density functional theory models of reactivity based on an energetic criterion. <i>Theoretical and Computational Chemistry</i> , 2007, 19, 19-30.	0.2	1
44	Stability and bonding in the borane-H ₂ complexes. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 3564-3569.	1.0	1
45	Comment on "Localization" delocalization phenomena in a cyclic box by H. H. Corzo, H. G. Laguna, and R. P. Sagar. <i>Journal of Mathematical Chemistry</i> , 2017, 55, 1889-1892.	0.7	1
46	Prediction of the tautomer stability and acidity of phenacylpyridines in aqueous solution. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	0.5	1
47	A Local Extension of the Electrophilicity Index Concept. <i>Journal of the Mexican Chemical Society</i> , 2017, 56, .	0.2	1
48	Prediction of the solid-solid pressure-induced phase transition in cubic ionic crystals with empirical potentials. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	0
49	Structural Phase Transitions in Cesium Halides. , 1991, , 293-306.		0