

JosÃ© L GÃ¡zquez

List of Publications by Year in descending order

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56
papers

3,187
citations

279798

23
h-index

161849

54
g-index

59
all docs

59
docs citations

59
times ranked

1972
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge transfer excitations and constrained density functional theory. <i>Theoretical Chemistry Accounts</i> , 2022, 141, 1.	1.4	8
2	Analysis of the kinetic energy functional in the generalized gradient approximation. <i>Journal of Chemical Physics</i> , 2021, 154, 084107.	3.0	7
3	Perturbation approach to constrained electron transfer in density functional theory. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1.	1.4	1
4	Generalized gradient approximations with local parameters. <i>Physical Review B</i> , 2020, 102, .	3.2	9
5	Temperature-Dependent Approach to Electronic Charge Transfer. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5465-5473.	2.5	3
6	Study of organic reactions using chemical reactivity descriptors derived through a temperature-dependent approach. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	1.4	9
7	Negative Electron Affinities and Derivative Discontinuity Contribution from a Generalized Gradient Approximation Exchange Functional. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1334-1342.	2.5	6
8	Conceptual density functional theory: status, prospects, issues. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	1.4	249
9	Constrained dipole moment density functional theory for charge distributions in force fields for the study of molecular fluids. <i>Journal of Chemical Physics</i> , 2020, 152, 124116.	3.0	8
10	Electronegativities of Pauling and Mulliken in Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10065-10071.	2.5	33
11	Temperature-dependent approach to chemical reactivity concepts in density functional theory. <i>International Journal of Quantum Chemistry</i> , 2019, 119, e25797.	2.0	40
12	Generalized Gradient Approximation Exchange Energy Functional with Near-Best Semilocal Performance. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 303-310.	5.3	24
13	Reply to the "Comment on "Revisiting the definition of local hardness and hardness kernel" by C. Morell, F. Guégan, W. Lamine, and H. Chermette, <i>Phys. Chem. Chem. Phys.</i> , 2018, 20, DOI: 10.1039/C7CP04100D. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9011-9014.	2.8	8
14	Role of Reaction Conditions in the Global and Local Two Parabolas Charge Transfer Model. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1796-1806.	2.5	13
15	Thermodynamic Justification for the Parabolic Model for Reactivity Indicators with Respect to Electron Number and a Rigorous Definition for the Electrophilicity: The Essential Role Played by the Electronic Entropy. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 597-606.	5.3	27
16	Using Synchrotron-Based Approaches To Examine the Foliar Application of ZnSO ₄ and ZnO Nanoparticles for Field-Grown Winter Wheat. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 2572-2579.	5.2	109
17	Chemical hardness: Temperature dependent definitions and reactivity principles. <i>Journal of Chemical Physics</i> , 2018, 149, 124110.	3.0	17
18	Local and nonlocal counterparts of global descriptors: the cases of chemical softness and hardness. <i>Journal of Molecular Modeling</i> , 2018, 24, 285.	1.8	21

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19	Local electrophilicity. <i>Journal of Molecular Modeling</i> , 2018, 24, 245.	1.8	21
20	Global and local charge transfer in electron donor-acceptor complexes. <i>Journal of Molecular Modeling</i> , 2018, 24, 250.	1.8	10
21	Global and Local Partitioning of the Charge Transferred in the Parr-Pearson Model. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4019-4029.	2.5	20
22	Local chemical potential, local hardness, and dual descriptors in temperature dependent chemical reactivity theory. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13687-13695.	2.8	26
23	Donation and back-donation analyzed through a charge transfer model based on density functional theory. <i>Journal of Molecular Modeling</i> , 2017, 23, 207.	1.8	17
24	New Fukui, dual and hyper-dual kernels as bond reactivity descriptors. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16095-16104.	2.8	15
25	Going beyond the three-state ensemble model: the electronic chemical potential and Fukui function for the general case. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11588-11602.	2.8	27
26	Revisiting the definition of local hardness and hardness kernel. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12355-12364.	2.8	31
27	Thermodynamic hardness and the maximum hardness principle. <i>Journal of Chemical Physics</i> , 2017, 147, 074113.	3.0	22
28	Thermodynamic responses of electronic systems. <i>Journal of Chemical Physics</i> , 2017, 147, 094105.	3.0	24
29	A PW91-like exchange with a simple analytical form. <i>Chemical Physics Letters</i> , 2016, 651, 268-273.	2.6	16
30	Intramolecular charge transfer model in fluorescence processes. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	6
31	Temperature effects in static and dynamic polarizabilities from distinct generalized gradient approximation exchange-correlation functionals. <i>Chemical Physics Letters</i> , 2016, 664, 77-82.	2.6	1
32	Average electronic energy is the central quantity in conceptual chemical reactivity theory. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	25
33	Germination Requirements Differ between Fenoxaprop- <i>P</i> -ethyl Resistant and Susceptible Japanese Foxtail (<i>Alopecurus japonicus</i>) Biotypes. <i>Weed Science</i> , 2016, 64, 653-663.	1.5	12
34	Electronic chemical response indexes at finite temperature in the canonical ensemble. <i>Journal of Chemical Physics</i> , 2015, 143, 024112.	3.0	16
35	Revisiting the definition of the electronic chemical potential, chemical hardness, and softness at finite temperatures. <i>Journal of Chemical Physics</i> , 2015, 143, 154103.	3.0	67
36	Local and linear chemical reactivity response functions at finite temperature in density functional theory. <i>Journal of Chemical Physics</i> , 2015, 143, 244117.	3.0	55

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37	Generalized gradient approximation exchange energy functional with correct asymptotic behavior of the corresponding potential. <i>Journal of Chemical Physics</i> , 2015, 142, 054105.	3.0	42
38	Revisiting electroaccepting and electrodonating powers: proposals for local electrophilicity and local nucleophilicity descriptors. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26832-26842.	2.8	68
39	Determination of Ploidy Level and Isolation of Genes Encoding Acetyl-CoA Carboxylase in Japanese Foxtail (<i>Alopecurus japonicus</i>). <i>PLoS ONE</i> , 2014, 9, e114712.	2.5	12
40	Local hardness equalization and the principle of maximum hardness. <i>Journal of Chemical Physics</i> , 2013, 138, 214103.	3.0	23
41	Non-empirical improvement of PBE and its hybrid PBE0 for general description of molecular properties. <i>Journal of Chemical Physics</i> , 2012, 136, 104108.	3.0	78
42	Improved constraint satisfaction in a simple generalized gradient approximation exchange functional. <i>Journal of Chemical Physics</i> , 2012, 136, 144115.	3.0	31
43	The reduced density gradient in atoms. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 3594-3598.	2.0	27
44	Simple Charge-Transfer Model for Metallic Complexes. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7945-7951.	2.5	19
45	Chemical hardness and the discontinuity of the Kohn-Sham exchange-correlation potential. <i>Journal of Chemical Physics</i> , 2007, 126, 214105.	3.0	9
46	Electrodonating and Electroaccepting Powers. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1966-1970.	2.5	540
47	Bond Energies and Hardness Differences. <i>Journal of Physical Chemistry A</i> , 1997, 101, 9464-9469.	2.5	53
48	Activation Energies and Softness Additivity. <i>Journal of Physical Chemistry A</i> , 1997, 101, 8967-8969.	2.5	23
49	Chemical Reactivity of Enolate Ions: The Local Hard and Soft Acids and Bases Principle Viewpoint. <i>Journal of the American Chemical Society</i> , 1994, 116, 9298-9301.	13.7	282
50	The Hard and Soft Acids and Bases Principle: An Atoms in Molecules Viewpoint. <i>The Journal of Physical Chemistry</i> , 1994, 98, 4591-4593.	2.9	302
51	Hardness functional. <i>The Journal of Physical Chemistry</i> , 1993, 97, 3939-3940.	2.9	117
52	Relationship between energy and hardness differences. <i>The Journal of Physical Chemistry</i> , 1993, 97, 4059-4063.	2.9	120
53	Hardness and softness in density functional theory. , 1993, , 27-43.		68
54	A relationship between the static dipole polarizability, the global softness, and the fukui function. <i>Journal of the American Chemical Society</i> , 1990, 112, 1490-1492.	13.7	193

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55	Chemical reactivity in spin-polarized density functional theory. The Journal of Physical Chemistry, 1988, 92, 6470-6474.	2.9	146
56	Fukui function: Spin-density and chemical reactivity. Journal of Chemical Physics, 1986, 85, 2337-2338.	3.0	25