

Robert Balawender

List of Publications by Year in descending order

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all docs

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docs citations

22
times ranked

366
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring chemical space with alchemical derivatives: alchemical transformations of H through Ar and their ions as a proof of concept. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23865-23879.	2.8	19
2	Exploring Chemical Space with Alchemical Derivatives: <i>BN</i> -Simultaneous Substitution Patterns in C_{60} . <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1154-1168.	5.3	31
3	Alchemical Derivatives of Atoms: A Walk Through the Periodic Table. , 2018, , 227-251.		4
4	Revisiting the chemical reactivity indices as the state function derivatives. The role of classical chemical hardness. <i>Journal of Chemical Physics</i> , 2015, 142, 054104.	3.0	32
5	Information and complexity measures in molecular reactivity studies. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14928-14946.	2.8	6
6	Testing exchange-correlation functionals at fractional electron numbers. <i>Theoretical Chemistry Accounts</i> , 2014, 133, 1.	1.4	2
7	Exploring Chemical Space with the Alchemical Derivatives. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5327-5340.	5.3	42
8	Higher order alchemical derivatives from coupled perturbed self-consistent field theory. <i>Journal of Chemical Physics</i> , 2012, 136, 034104.	3.0	31
9	Structure Investigations of Dichloroaluminum Benzoates: An Unprecedented Example of a Monomeric Aluminum Complex with a Chelating Carboxylate Ligand. <i>Inorganic Chemistry</i> , 2009, 48, 10892-10894.	4.0	14
10	Comment on "Legendre-transform functionals for spin-density-functional theory". <i>J. Chem. Phys.</i> 124, 224108 (2006)]. <i>Journal of Chemical Physics</i> , 2006, 125, 247101.	3.0	14
11	Density-functional theory-based chemical reactivity indices in the Hartree-Fock method. I. Unrestricted Hartree-Fock method for a noninteger number of electrons. <i>Journal of Chemical Physics</i> , 2005, 123, 124102.	3.0	16
12	DFT-based chemical reactivity indices in the Hartree-Fock method. II. Fukui function, chemical potential, and hardness. <i>Journal of Chemical Physics</i> , 2005, 123, 124103.	3.0	22
13	THE NUCLEAR FUKUI FUNCTION. , 2002, , 1053-1070.		7
14	Nuclear Fukui function from coupled perturbed Hartree-Fock equations. <i>Journal of Chemical Physics</i> , 2001, 114, 682.	3.0	40
15	Solvent Effect on the Global and Atomic DFT-Based Reactivity Descriptors Using the Effective Fragment Potential Model. Solvation of Ammonia. <i>Journal of Physical Chemistry A</i> , 2001, 105, 6703-6710.	2.5	31
16	Solvent Effect on Electronegativity, Hardness, Condensed Fukui Functions, and Softness, in a Large Series of Diatomic and Small Polyatomic Molecules: Use of the EFP Model. <i>Journal of Physical Chemistry A</i> , 2001, 105, 11102-11109.	2.5	25
17	Nuclear Fukui function and Berlin's binding function: Prediction of the Jahn-Teller distortion. <i>Journal of Chemical Physics</i> , 2001, 114, 4441.	3.0	36
18	Atomic Fukui function indices and local softness ab initio. <i>Journal of Chemical Physics</i> , 1998, 109, 5203-5211.	3.0	73

#	ARTICLE	IF	CITATIONS
19	Derivatives of Molecular Valence as a Measure of Aromaticity. Journal of Physical Chemistry A, 1998, 102, 9912-9917.	2.5	36
20	Acidic and basic molecular hardness in LCAO approximation. International Journal of Quantum Chemistry, 1997, 61, 499-505.	2.0	19
21	Acidic and basic molecular hardness in LCAO approximation. International Journal of Quantum Chemistry, 1997, 61, 499-505.	2.0	0
22	New Insights and Horizons from the Linear Response Function in Conceptual DFT. , 0, , .		3