Ludwik Komorowski

List of Publications by Year
in descending order

26	500	687363 13	677142 22
papers	citations	h-index	g-index

26	26	26	260
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	From the Electron Density Gradient to the Quantitative Reactivity Indicators: Local Softness and the Fukui Function. ACS Omega, 2022, 7, 7745-7758.	3.5	11
2	Bond Softening Indices Studied by the Fragility Spectra for Proton Migration in Formamide and Related Structures. Journal of Physical Chemistry A, 2020, 124, 328-338.	2.5	4
3	The Connectivity Matrix: A Toolbox for Monitoring Bonded Atoms and Bonds. Journal of Physical Chemistry A, 2020, 124, 1076-1086.	2.5	4
4	Evolution of the atomic valence observed by the reaction fragility spectra on the reaction path. Journal of Molecular Modeling, 2019, 25, 134.	1.8	5
5	Bond Fragility Spectra for the Double Proton-Transfer Reaction in the Formic Acid-Type Dimers. Journal of Physical Chemistry A, 2019, 123, 4274-4283.	2.5	5
6	Conceptual DFT analysis of the fragility spectra of atoms along the minimum energy reaction coordinate. Journal of Chemical Physics, 2017, 147, 134109.	3.0	9
7	The reaction fragility spectrum. Physical Chemistry Chemical Physics, 2016, 18, 32658-32663.	2.8	11
8	Atomic Resolution for the Energy Derivatives on the Reaction Path. Journal of Physical Chemistry A, 2016, 120, 3780-3787.	2.5	14
9	Atomic polarization justified Fukui indices and the affinity indicators in aromatic heterocycles and nucleobases. Computational and Theoretical Chemistry, 2015, 1065, 42-49.	2.5	5
10	Variation of the electronic dipole polarizability on the reaction path. Journal of Molecular Modeling, 2013, 19, 4203-4207.	1.8	11
11	Reactivity Patterns of Imidazole, Oxazole, and Thiazole As Reflected by the Polarization Justified Fukui Functions. Journal of Physical Chemistry A, 2013, 117, 1596-1600.	2.5	16
12	Modeling the electron density kernels. Journal of Computational Chemistry, 2011, 32, 1721-1724.	3.3	8
13	Polarization justified Fukui functions: The theory and applications for molecules. Journal of Chemical Physics, 2011, 135, 014109.	3.0	21
14	Fukui functions for atoms and ions: Polarizability justified approach. International Journal of Quantum Chemistry, 2010, 110, 2315-2319.	2.0	8
15	Polarization justified Fukui functions. Journal of Chemical Physics, 2009, 131, 124120.	3.0	22
16	DFT energy derivatives and their renormalization in molecular vibrations. International Journal of Quantum Chemistry, 2005, 101, 703-713.	2.0	16
17	Anharmonicity of a molecular oscillator. International Journal of Quantum Chemistry, 2004, 99, 153-160.	2.0	16
18	Fluctuations in electronegativity and global hardness induced by molecular vibrations. Computational and Theoretical Chemistry, 2003, 630, 25-32.	1.5	13

#	Article	IF	Citations
19	DFT analysis of fluctuations in electronegativity and hardness of a molecular oscillator. International Journal of Quantum Chemistry, 2003, 91, 398-403.	2.0	10
20	Vibrational softening of diatomic molecules. Theoretical Chemistry Accounts, 2001, 105, 338-344.	1.4	17
21	Nuclear reactivity and nuclear stiffness in density functional theory. Chemical Physics Letters, 1998, 292, 22-27.	2.6	34
22	Atomic Fukui function indices and local softness ab initio. Journal of Chemical Physics, 1998, 109, 5203-5211.	3.0	73
23	Derivatives of Molecular Valence as a Measure of Aromaticity. Journal of Physical Chemistry A, 1998, 102, 9912-9917.	2.5	36
24	Hardness indices for free and bonded atoms. , 1993, , 45-70.		14
25	Empirical evaluation of chemical hardness. Chemical Physics Letters, 1987, 134, 536-540.	2.6	43
26	Electronegativity and hardness in the chemical approximation. Chemical Physics, 1987, 114, 55-71.	1.9	74