

# Ludwik Komorowski

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

500  
citations

687363

13  
h-index

677142

22  
g-index

26  
all docs

26  
docs citations

26  
times ranked

260  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronegativity and hardness in the chemical approximation. <i>Chemical Physics</i> , 1987, 114, 55-71.	1.9	74
2	Atomic Fukui function indices and local softness ab initio. <i>Journal of Chemical Physics</i> , 1998, 109, 5203-5211.	3.0	73
3	Empirical evaluation of chemical hardness. <i>Chemical Physics Letters</i> , 1987, 134, 536-540.	2.6	43
4	Derivatives of Molecular Valence as a Measure of Aromaticity. <i>Journal of Physical Chemistry A</i> , 1998, 102, 9912-9917.	2.5	36
5	Nuclear reactivity and nuclear stiffness in density functional theory. <i>Chemical Physics Letters</i> , 1998, 292, 22-27.	2.6	34
6	Polarization justified Fukui functions. <i>Journal of Chemical Physics</i> , 2009, 131, 124120.	3.0	22
7	Polarization justified Fukui functions: The theory and applications for molecules. <i>Journal of Chemical Physics</i> , 2011, 135, 014109.	3.0	21
8	Vibrational softening of diatomic molecules. <i>Theoretical Chemistry Accounts</i> , 2001, 105, 338-344.	1.4	17
9	Anharmonicity of a molecular oscillator. <i>International Journal of Quantum Chemistry</i> , 2004, 99, 153-160.	2.0	16
10	DFT energy derivatives and their renormalization in molecular vibrations. <i>International Journal of Quantum Chemistry</i> , 2005, 101, 703-713.	2.0	16
11	Reactivity Patterns of Imidazole, Oxazole, and Thiazole As Reflected by the Polarization Justified Fukui Functions. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1596-1600.	2.5	16
12	Hardness indices for free and bonded atoms. , 1993, , 45-70.		14
13	Atomic Resolution for the Energy Derivatives on the Reaction Path. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3780-3787.	2.5	14
14	Fluctuations in electronegativity and global hardness induced by molecular vibrations. <i>Computational and Theoretical Chemistry</i> , 2003, 630, 25-32.	1.5	13
15	Variation of the electronic dipole polarizability on the reaction path. <i>Journal of Molecular Modeling</i> , 2013, 19, 4203-4207.	1.8	11
16	The reaction fragility spectrum. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32658-32663.	2.8	11
17	From the Electron Density Gradient to the Quantitative Reactivity Indicators: Local Softness and the Fukui Function. <i>ACS Omega</i> , 2022, 7, 7745-7758.	3.5	11
18	DFT analysis of fluctuations in electronegativity and hardness of a molecular oscillator. <i>International Journal of Quantum Chemistry</i> , 2003, 91, 398-403.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Conceptual DFT analysis of the fragility spectra of atoms along the minimum energy reaction coordinate. <i>Journal of Chemical Physics</i> , 2017, 147, 134109.	3.0	9
20	Fukui functions for atoms and ions: Polarizability justified approach. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 2315-2319.	2.0	8
21	Modeling the electron density kernels. <i>Journal of Computational Chemistry</i> , 2011, 32, 1721-1724.	3.3	8
22	Atomic polarization justified Fukui indices and the affinity indicators in aromatic heterocycles and nucleobases. <i>Computational and Theoretical Chemistry</i> , 2015, 1065, 42-49.	2.5	5
23	Evolution of the atomic valence observed by the reaction fragility spectra on the reaction path. <i>Journal of Molecular Modeling</i> , 2019, 25, 134.	1.8	5
24	Bond Fragility Spectra for the Double Proton-Transfer Reaction in the Formic Acid-Type Dimers. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4274-4283.	2.5	5
25	Bond Softening Indices Studied by the Fragility Spectra for Proton Migration in Formamide and Related Structures. <i>Journal of Physical Chemistry A</i> , 2020, 124, 328-338.	2.5	4
26	The Connectivity Matrix: A Toolbox for Monitoring Bonded Atoms and Bonds. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1076-1086.	2.5	4