Irena Majerz

List of Publications by Year in descending order

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48 papers	802 citations	687363 13 h-index	501196 28 g-index
48 all docs	48 docs citations	48 times ranked	1115 citing authors

#	Article	IF	Citations
1	First Oâ^'Hâ^'N Hydrogen Bond with a Centered Proton Obtained by Thermally Induced Proton Migration. Angewandte Chemie - International Edition, 2001, 40, 2651-2654.	13.8	218
2	Flexible ferroelectric organic crystals. Nature Communications, 2016, 7, 13108.	12.8	182
3	Neutron diffraction study of a very short Oâ€"Hâ€¥N hydrogen bond: crystalline adduct of 2-methylpyridine and pentachlorophenol. Chemical Communications, 2000, , 1231-1232.	4.1	41
4	Peculiarities of quasi-aromatic hydrogen bonding. RSC Advances, 2012, 2, 8135.	3.6	30
5	Structure and IR spectroscopic behaviour of 2,7-dichloro-1,8-bis(dimethylamino)naphthalene and its protonated form. Journal of Physical Organic Chemistry, 1999, 12, 895-900.	1.9	25
6	Directionality of Inter- and Intramolecular OHO Hydrogen Bonds: DFT Study Followed by AIM and NBO Analysis. Journal of Physical Chemistry A, 2012, 116, 7992-8000.	2.5	25
7	The influence of hydrogen bond formation and the proton transfer on the structure of complexes of phenols with N-methylmorpholine. Journal of Molecular Structure, 2007, 831, 106-113.	3.6	20
8	Aromaticity and Through-Space Interaction between Aromatic Rings in [2.2]Paracyclophanes. Journal of Physical Chemistry A, 2016, 120, 8138-8147.	2.5	18
9	Comparison of the proton-transfer path in hydrogen bonds from theoretical potential-energy surfaces and the concept of conservation of bond order. II. (Nâ€"H...N)‹sup›+‹/sup› hydrogen bonds. Acta Crystallographica Section B: Structural Science, 2007, 63, 650-662.	1.8	16
10	The shape of the potential energy curves for NHN+ hydrogen bonds and the influence of non-linearity. Physical Chemistry Chemical Physics, 2008, 10, 3043.	2.8	16
11	Weak hydrogen and dihydrogen bonds instead of strong Nâ€"Hâ‹¯O bonds of a tricyclic [1,2,4,5]-tetrazine derivative. Single-crystal X-ray diffraction, theoretical calculations and Hirshfeld surface analysis. CrystEngComm, 2014, 16, 7638-7648.	2.6	16
12	Mechanism of proton transfer in the strong OHN intermolecular hydrogen bond. RSC Advances, 2011, 1, 219.	3.6	15
13	Temperature-Dependent Single-Crystal Neutron Diffraction Study of the Strong OHN Hydrogen Bond in Pyridinium 2,4-Dinitrobenzoate. Journal of Physical Chemistry A, 2008, 112, 9801-9806.	2.5	14
14	Comparison of the proton-transfer paths in hydrogen bonds from theoretical potential-energy surfaces and the concept of conservation of bond order III. Oâ€"Hâ€"O hydrogen bonds. Physical Chemistry Chemical Physics, 2010, 12, 5462.	2.8	14
15	Structural consequences of proton transfer in some selected complexes of phenol derivatives with trimethylamine. Chemical Physics Letters, 2004, 398, 130-139.	2.6	12
16	Geometric Aspects of Aromaticity: Interrelations between Intramolecular Hydrogen Bonds, Steric Effects and Ï€â€Electron Delocalisation in Nitroanilines. European Journal of Organic Chemistry, 2011, 2011, 280-286.	2.4	9
17	Changes of electron density in the OHN hydrogen bond upon proton transfer in complexes of phenols with trimethylamine: DFT study. Journal of Physical Organic Chemistry, 2008, 21, 867-875.	1.9	8
18	Does the fiveâ€member hydrogen bond ring in quinoline carboxamides exist?. Journal of Physical Organic Chemistry, 2008, 21, 876-880.	1.9	8

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19	Aromaticity of Overcrowded Nitroanilines. Journal of Physical Chemistry A, 2012, 116, 5629-5636.	2.5	8
20	Substituent effect on inter-ring interaction in paracyclophanes. Molecular Diversity, 2020, 24, 11-20.	3.9	8
21	Structural modifications resulting from proton transfer in complexes of phenols with pyridine. Journal of Physical Organic Chemistry, 2005, 18, 833-843.	1.9	7
22	The strong OHO hydrogen bond. How much covalency?. Molecular Physics, 2007, 105, 2305-2314.	1.7	7
23	Intermolecular OHN hydrogen bond with a proton moving in 3-methylpyridinium 2,6-dichloro-4-nitrophenolate. RSC Advances, 2015, 5, 95576-95584.	3.6	7
24	Aromaticity and Electron Density of Hypericin. Journal of Natural Products, 2019, 82, 2106-2115.	3.0	7
25	Geometry and electron density of phenothazines. Journal of Molecular Structure, 2020, 1200, 127095.	3.6	7
26	The influence of the OHO angle on the proton valency in inter- and intra-molecular hydrogen bonds. Journal of Molecular Structure, 2010, 968, 48-51.	3.6	6
27	The influence of potassium cation on a strong OHO hydrogen bond. Organic and Biomolecular Chemistry, 2011, 9, 1466.	2.8	6
28	Theoretical Studies on the Structure and Intramolecular Interactions of Fagopyrinsâ€”Natural Photosensitizers of Fagopyrum. Molecules, 2022, 27, 3689.	3.8	6
29	Weak interactions in furan dimers. Journal of Computer-Aided Molecular Design, 2018, 32, 1247-1258.	2.9	5
30	Proton-transfer paths in CHâ‹¯O hydrogen bonds. RSC Advances, 2012, 2, 2545.	3.6	4
31	Substituents and Environment Influences on Aromaticity of peri- and para-Substituted Naphthalenes. Journal of Physical Chemistry A, 2014, 118, 7118-7129.	2.5	4
32	Aromaticity of benzene derivatives: an exploration of the Cambridge Structural Database. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2018, 74, 148-151.	1.1	4
33	The Naâ€”O bond in sodium fenamate. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 766-774.	1.1	4
34	Effect of Substitution of Hydrogen Atoms in the Molecules of Anthrone and Anthraquinone. Molecules, 2021, 26, 502.	3.8	4
35	The Crystal Structure and Intermolecular Interactions in Fenamic Acidsâ€“Acridine Complexes. Molecules, 2021, 26, 2956.	3.8	4
36	Proton Transfer Influence on Geometry and Electron Density in Benzoic Acidâ€“Pyridine Complexes. Helvetica Chimica Acta, 2016, 99, 286-295.	1.6	3

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37	The Crystal Structure and Behavior of Fenamic Acid-Acridine Complex Under High Pressure. Journal of Pharmaceutical Sciences, 2016, 105, 3487-3495.	3.3	3
38	DFT Studies of the Structure and Vibrational Spectra of NH Tautomers of trans-N,Nâ€²-bisâ€“Salicylidene-1â€²,2â€²-cyclohexanediamines. Spectroscopy Letters, 2009, 42, 246-257.	1.0	2
39	Aromaticity of peri- and para-Substituted Naphthalene-1-carbaldehyde. Comparison with 1-Nitronaphthalene. Journal of Physical Chemistry A, 2017, 121, 2627-2635.	2.5	2
40	What Is the Main Feature Distinguishing the Through-Space Interactions in Cyclophanes from Their Aliphatic Analogues?. ACS Omega, 2020, 5, 22314-22324.	3.5	2
41	In Silico Studies on Sennidinesâ€”Natural Dianthrones from Senna. Biology, 2021, 10, 468.	2.8	2
42	Anomalous temperature effect on the hydrogen bond strength and phase transition in 2,4,6-trimethylpyridinium pentachlorophenolate.. Journal of Molecular Structure, 2004, 694, 45-53.	3.6	1
43	Analysis of potential energy curve for proton motion in intermolecular hydrogen bond. Chemical Physics Letters, 2010, 484, 134-138.	2.6	1
44	Electrochemical Behaviour of Selected Fenamate NSAIDs at PNAANI Modified Glassy Carbon Electrode. Journal of the Electrochemical Society, 2021, 168, 106504.	2.9	1
45	Proton vibrations in 2,4,6-trimethylpyridinium pentachlorophenolate. Chemical Physics Letters, 2014, 608, 289-294.	2.6	0
46	Novel Coordination Mode in the Potassium Mefenamate Trihydrate Polymeric Structure. Symmetry, 2021, 13, 1761.	2.2	0
47	Theoretical Study of the Geometry of Dibenzoazepine Analogues. Molecules, 2022, 27, 790.	3.8	0
48	Analysis of Weak Interactions in Crystals of Fenamic Acidsâ€“Ethacridine Complexes. Crystal Growth and Design, 2022, 22, 1554-1570.	3.0	0