Boris Furtula

List of Publications by Year in descending order

93 papers	2,789 citations	304602 22 h-index	189801 50 g-index
96 all docs	96 docs citations	96 times ranked	778 citing authors

#	Article	IF	Citations
1	On relations between Sombor and other degree-based indices. Journal of Applied Mathematics and Computing, 2022, 68, 1-17.	1.2	25
2	Energy of graphs with self-loops. Match, 2022, 87, 645-652.	0.8	7
3	The generalized Zhangâ€“Zhang polynomial of benzenoid systems â€“ theory and applications. Applied Mathematics and Computation, 2022, 418, 126822.	1.4	2
4	Relating vibrational energy with KekulÃ©â€•and Clarâ€structureâ€based parameters. International Journal of Quantum Chemistry, 2022, 122, .	1.0	1
5	On the minimum Harary index of graphs with a given diameter or independence number. Discrete Applied Mathematics, 2022, 320, 331-345.	0.5	1
6	Arithmeticâ€“geometric index and its relations with geometricâ€“arithmetic index. Applied Mathematics and Computation, 2021, 391, 125706.	1.4	15
7	Bounds for the spectral radius and energy of extended adjacency matrix of graphs. Linear and Multilinear Algebra, 2021, 69, 1813-1824.	0.5	6
8	Minimum augmented Zagreb index of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e93" altimg="si5.svg"><mml:mi>c</mml:mi></mml:math>-cyclic graphs. Discrete Applied Mathematics, 2021, 295, 32-38.	0.5	6
9	Effect of a Ring onto Values of Eigenvalueâ€“Based Molecular Descriptors. Symmetry, 2021, 13, 1515.	1.1	2
10	Comparative study on structural sensitivity of eigenvalueâ€“based molecular descriptors. Journal of Mathematical Chemistry, 2021, 59, 476-487.	0.7	5
11	Magnetically Induced Current Density in Nonplanar Fully Benzenoid Hydrocarbons. Journal of Physical Chemistry A, 2020, 124, 371-378.	1.1	5
12	Trees with Minimum Weighted Szeged Index Are of a Large Diameter. Symmetry, 2020, 12, 793.	1.1	1
13	Two Stability Criteria for Benzenoid Hydrocarbons and Their Relation. Croatica Chemica Acta, 2020, 92, 473-475.	0.1	0
14	Predictive potential of eigenvalue-based topological molecular descriptors. Journal of Computer-Aided Molecular Design, 2020, 34, 975-982.	1.3	20
15	Steiner degree distance indices: Chemical applicability and bounds. International Journal of Quantum Chemistry, 2020, 120, e26209.	1.0	2
16	On Relationships of Eigenvalueâ€“Based Topological Molecular Descriptors. Acta Chimica Slovenica, 2020, 67, 312-318.	0.2	3
17	RESOLVENT ENERGY AND ESTRADA INDEX OF BENZENOID HYDROCARBONS. Journal of the Serbian Society for Computational Mechanics, 2020, , 37-44.	0.2	2
18	Evaluation of the constructed 3D models of RNAs: A review. Facta Universitatis - Series Physics Chemistry and Technology, 2020, 18, 39-45.	0.2	0

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19	On Relationships of Eigenvalue-Based Topological Molecular Descriptors. Acta Chimica Slovenica, 2020, 67, 312-318.	0.2	0
20	A novel method for measuring the structure sensitivity of molecular descriptors. Journal of Chemometrics, 2019, 33, e3138.	0.7	9
21	Some new lower bounds for augmented Zagreb index. Journal of Applied Mathematics and Computing, 2019, 61, 405-415.	1.2	3
22	Dependence of the Enthalpy of Formation of Phenols on Molecular Structure â€“ Semiempirical Study. Polycyclic Aromatic Compounds, 2019, , 1-12.	1.4	0
23	RandiÄ‡ index and information. AKCE International Journal of Graphs and Combinatorics, 2018, 15, 307-312.	0.4	59
24	Comparative analysis of symmetric division deg index as potentially useful molecular descriptor. International Journal of Quantum Chemistry, 2018, 118, e25659.	1.0	34
25	Degree-based energies of graphs. Linear Algebra and Its Applications, 2018, 554, 185-204.	0.4	40
26	Application of spectral graph theory on the enthalpy change of formation of acyclic saturated ketones. Journal of the Serbian Chemical Society, 2018, 83, 1339-1349.	0.4	2
27	Extended energy and its dependence on molecular structure. Canadian Journal of Chemistry, 2017, 95, 526-529.	0.6	15
28	Aromaticity of Nonplanar Fully Benzenoid Hydrocarbons. Journal of Physical Chemistry A, 2017, 121, 3616-3626.	1.1	32
29	Generalizations of SzÅ‘kefalvi Nagy and Chebyshev inequalities with applications in spectral graph theory. Applied Mathematics and Computation, 2017, 313, 235-244.	1.4	5
30	On spectral radius and energy of extended adjacency matrix of graphs. Applied Mathematics and Computation, 2017, 296, 116-123.	1.4	18
31	The Total Ï€-Electron Energy Saga. Croatica Chemica Acta, 2017, 90, .	0.1	14
32	On some degree-and-distance-based graph invariants of trees. Applied Mathematics and Computation, 2016, 289, 1-6.	1.4	8
33	On extremal Zagreb indices of trees with given domination number. Applied Mathematics and Computation, 2016, 279, 208-218.	1.4	46
34	On atom-bond connectivity molecule structure descriptors. Journal of the Serbian Chemical Society, 2016, 81, 271-276.	0.4	2
35	Constructing NSSD Molecular Graphs. Croatica Chemica Acta, 2016, 89, .	0.1	3
36	High performance computing in multi-scale modeling, graph science and meta-heuristic optimization. Journal of the Serbian Society for Computational Mechanics, 2016, 10, 50-70.	0.2	0

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37	A forgotten topological index. Journal of Mathematical Chemistry, 2015, 53, 1184-1190.	0.7	500
38	Assessing π-Electron Contents of Rings in Polycyclic Aromatic Compounds. Current Organic Chemistry, 2015, 19, 331-347.	0.9	2
39	Multicenter Wiener indices and their applications. Journal of the Serbian Chemical Society, 2015, 80, 1009-1017.	0.4	23
40	On difference of Zagreb indices. Discrete Applied Mathematics, 2014, 178, 83-88.	0.5	82
41	On RandiÄ‡ energy. Linear Algebra and Its Applications, 2014, 442, 50-57.	0.4	64
42	Metric-Extremal Graphs. Discrete Mathematics and Its Applications, 2014, , 111-139.	0.1	1
43	A graph theoretical approach to cis/trans isomerism. Journal of the Serbian Chemical Society, 2014, 79, 805-813.	0.4	2
44	Why plerograms are not used in chemical graph theory? The case of terminal-Wiener index. Chemical Physics Letters, 2013, 568-569, 195-197.	1.2	3
45	On structure-sensitivity of degree-based topological indices. Applied Mathematics and Computation, 2013, 219, 8973-8978.	1.4	121
46	Comparing energy and Randic energy. Macedonian Journal of Chemistry and Chemical Engineering, 2013, 32, 117.	0.2	5
47	The ABC index conundrum. Filomat, 2013, 27, 1075-1083.	0.2	37
48	Vertex-degree-based molecular structure descriptors of benzenoid systems and phenylenes. Journal of the Serbian Chemical Society, 2012, 77, 1031-1036.	0.4	12
49	Computer search for trees with minimal ABC index. Applied Mathematics and Computation, 2012, 219, 767-772.	1.4	25
50	Structural Discrimination of Networks by Using Distance, Degree and Eigenvalue-Based Measures. PLoS ONE, 2012, 7, e38564.	1.1	15
51	On atom-bond connectivity index. Filomat, 2012, 26, 733-738.	0.2	35
52	On atom-bond connectivity index. Chemical Physics Letters, 2011, 511, 452-454.	1.2	83
53	On the first geometricâ€“arithmetic index of graphs. Discrete Applied Mathematics, 2011, 159, 2030-2037.	0.5	37
54	Graphenes â€” Aromatic giants. Resonance, 2011, 16, 1238-1245.	0.2	0

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55	Relation between second and third geometricâ€“arithmetic indices of trees. Journal of Chemometrics, 2011, 25, 87-91.	0.7	39
56	Effect of benzocyclobutadieno-annelation on cyclic conjugation in fluoranthene congeners. Journal of the Serbian Chemical Society, 2011, 76, 733-741.	0.4	6
57	A new geometricâ€“arithmetic index. Journal of Mathematical Chemistry, 2010, 47, 477-486.	0.7	41
58	Augmented Zagreb index. Journal of Mathematical Chemistry, 2010, 48, 370-380.	0.7	299
59	Effect of a ring on the cyclic conjugation in another ring: Applications to acenaphthylene-type polycyclic conjugated molecules. Journal of the Serbian Chemical Society, 2010, 75, 83-90.	0.4	4
60	On two types of geometricâ€“arithmetic index. Chemical Physics Letters, 2009, 482, 153-155.	1.2	26
61	Terminal Wiener index. Journal of Mathematical Chemistry, 2009, 46, 522-531.	0.7	50
62	Topological index based on the ratios of geometrical and arithmetical means of end-vertex degrees of edges. Journal of Mathematical Chemistry, 2009, 46, 1369-1376.	0.7	478
63	Atomâ€“bond connectivity index of trees. Discrete Applied Mathematics, 2009, 157, 2828-2835.	0.5	106
64	Graphenes â€” Aromatic giants. Resonance, 2008, 13, 730-737.	0.2	3
65	CYCLIC CONJUGATION IN PYRACYLENE. Polycyclic Aromatic Compounds, 2008, 28, 136-142.	1.4	6
66	Bicyclic molecular graphs with the greatest energy. Journal of the Serbian Chemical Society, 2008, 73, 431-433.	0.4	15
67	Relating Estrada index with spectral radius. Journal of the Serbian Chemical Society, 2007, 72, 1321-1327.	0.4	18
68	Alkanes with Greatest Estrada Index. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2007, 62, 495-498.	0.7	12
69	PARTITIONING OF Ï€-ELECTRONS IN RINGS OF AZA-DERIVATIVES OF POLYCYCLIC BENZENOID HYDROCARBONS. Polycyclic Aromatic Compounds, 2007, 27, 51-63.	1.4	17
70	On the Cycle-Dependence of Topological Resonance Energy. Journal of Chemical Information and Modeling, 2007, 47, 776-781.	2.5	34
71	Partitioning of Ï€-electrons in rings of aza-derivatives of naphthalene. Journal of the Serbian Chemical Society, 2007, 72, 655-663.	0.4	6
72	Equivalence of Two Models for Partitioning of Ï€-Electrons in Rings of Benzenoid Hydrocarbons. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2006, 61, 281-285.	0.7	0

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73	A KekulÃ© structure basis for phenylenes. Computational and Theoretical Chemistry, 2006, 770, 67-71.	1.5	9
74	Benzenoid Molecules with Uniform Distribution of Ï€-Electrons within Rings. Monatshefte FÃ¼r Chemie, 2006, 137, 277-284.	0.9	6
75	Relating Total Ï€-Electron Energy and Resonance Energy of Benzenoid Molecules with KekulÃ©- and Clar-Structure-Based Parameters. Monatshefte FÃ¼r Chemie, 2006, 137, 1127-1138.	0.9	16
76	ALGORITHM FOR SIMULTANEOUS CALCULATION OF KEKULÃ‰ AND CLAR STRUCTURE COUNTS, AND CLAR NUMBER OF BENZENOID MOLECULES. Polycyclic Aromatic Compounds, 2006, 26, 17-35.	1.4	22
77	A concealed difference between the structure-dependence of Dewar and topological resonance energy. Computational and Theoretical Chemistry, 2005, 757, 119-123.	1.5	6
78	Some properties of the topological bond order. Chemical Physics Letters, 2005, 407, 73-77.	1.2	0
79	Clar theory and resonance energy. Chemical Physics Letters, 2005, 413, 396-399.	1.2	13
80	Ï€-ELECTRON CONTENTS OF RINGS IN THE DOUBLE-HEXAGONAL-CHAIN HOMOLOGOUS SERIES (PYRENE,) Tj ETQq0 0 0 rgBT /Overlock	1.4	16
81	ELECTRON AND ENERGY CONTENTS OF HEXAGONS IN BENZENOID HYDROCARBONS. Polycyclic Aromatic Compounds, 2005, 25, 87-94.	1.4	8
82	Graph of atomic orbitals and the molecular structure-descriptors based on it. Journal of the Serbian Chemical Society, 2005, 70, 669-674.	0.4	9
83	Annelated perylenes: Benzenoid molecules violating the KekulÃ©-structure-based cyclic conjugation models. Journal of the Serbian Chemical Society, 2005, 70, 1023-1032.	0.4	4
84	Electron content of rings of fully benzenoid hydrocarbons. Journal of the Serbian Chemical Society, 2005, 70, 1199-1204.	0.4	8
85	Relation between Pauling and Coulson Bond Orders in Benzenoid Hydrocarbons. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2004, 59, 699-704.	0.7	0
86	On Structure Descriptors Related with Intramolecular Energy of Alkanes. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2004, 59, 694-698.	0.7	3
87	A Concealed Property of the Topological IndexZ. Bulletin of the Chemical Society of Japan, 2004, 77, 491-496.	2.0	5
88	On the relation between Zenkevich and Wiener indices of alkanes. Journal of the Serbian Chemical Society, 2004, 69, 265-271.	0.4	5
89	Hyper-Wiener Index vs. Wiener Index. Two Highly Correlated Structure-Descriptors. Monatshefte FÃ¼r Chemie, 2003, 134, 975-981.	0.9	20
90	Wiener-type indices and internal molecular energy. Journal of the Serbian Chemical Society, 2003, 68, 401-408.	0.4	8

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91	Equiseparable chemical trees. Journal of the Serbian Chemical Society, 2003, 68, 549-555.	0.4	5
92	Note of the hyper-Wiener index. Journal of the Serbian Chemical Society, 2003, 68, 943-948.	0.4	9
93	Coulson function and Hosoya index. Chemical Physics Letters, 2002, 355, 378-382.	1.2	17