Damir Vukicevic

List of Publications by Year
in descending order

81 papers	1,848 citations	361296 20 h-index	289141 40 g-index
84 all docs	84 docs citations	84 times ranked	1146 citing authors

#	Article	IF	Citations
1	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
2	Augmented Zagreb index. Journal of Mathematical Chemistry, 2010, 48, 370-380.	0.7	299
3	Atom–bond connectivity index of trees. Discrete Applied Mathematics, 2009, 157, 2828-2835.	0.5	106
4	Computational Design of Highly Selective Antimicrobial Peptides. Journal of Chemical Information and Modeling, 2009, 49, 2873-2882.	2.5	79
5	Knowledge-based computational methods for identifying or designing novel, non-homologous antimicrobial peptides. European Biophysics Journal, 2011, 40, 371-385.	1.2	50
6	Antibacterial Activity Affected by the Conformational Flexibility in Glycine–Lysine Based α-Helical Antimicrobial Peptides. Journal of Medicinal Chemistry, 2018, 61, 2924-2936.	2.9	48
7	Graphical representation of proteins as four-color maps and their numerical characterization. Journal of Molecular Graphics and Modelling, 2009, 27, 637-641.	1.3	45
8	Topological efficiency of C66 fullerene. Chemical Physics Letters, 2011, 501, 442-445.	1.2	44
9	Note on the comparison of the first and second normalized zagreb eccentricity indices. Acta Chimica Slovenica, 2010, 57, 524-8.	0.2	39
10	Computing the bipartite edge frustration of fullerene graphs. Discrete Applied Mathematics, 2007, 155, 1294-1301.	0.5	35
11	Algebraic Kekulé Structures of Benzenoid Hydrocarbons†. Journal of Chemical Information and Computer Sciences, 2004, 44, 296-299.	2.8	34
12	On Kekulé structures of buckminsterfullerene. Chemical Physics Letters, 2005, 401, 446-450.	1.2	31
13	Variable neighborhood search for extremal graphs. 23. On the Randić index and the chromatic number. Discrete Mathematics, 2009, 309, 4228-4234.	0.4	31
14	Partitioning of π-electrons in Rings of Polycyclic Conjugated Hydrocarbons. Part 4. Benzenoids with More Than One Geometric Kekulé Structure Corresponding to the Same Algebraic Kekulé Structure. Journal of Mathematical Chemistry, 2004, 36, 271-279.	0.7	30
15	Improving the Selectivity of Antimicrobial Peptides from Anuran Skin. Journal of Chemical Information and Modeling, 2012, 52, 3341-3351.	2.5	30
16	Bond Additive Modeling 4. QSPR and QSAR Studies of the Variable Adriatic Indices. Croatica Chemica Acta, 0, , 87-91.	0.1	30
17	Community structure in networks: Girvan-Newman algorithm improvement. , 2014, , .		28
18	On the anti-Kekulé number and anti-forcing number of cata-condensed benzenoids. Journal of Mathematical Chemistry, 2008, 43, 719-726.	0.7	26

#	Article	IF	Citations
19	Computer search for trees with minimal ABC index. Applied Mathematics and Computation, 2012, 219, 767-772.	1.4	25
20	On the vertex degree indices of connected graphs. Chemical Physics Letters, 2011, 512, 283-286.	1.2	24
21	Numerical Kekulé Structures of Fullerenes and Partitioning of π-Electrons to Pentagonal and Hexagonal Rings. Journal of Chemical Information and Modeling, 2007, 47, 897-904.	2.5	22
22	Selection and redesign for high selectivity of membrane-active antimicrobial peptides from a dedicated sequence/function database. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 827-834.	1.4	22
23	Canonical Labeling of Proteome Maps. Journal of Proteome Research, 2005, 4, 1347-1352.	1.8	18
24	Predicting the Minimal Inhibitory Concentration for Antimicrobial Peptides with Rana-Box Domain. Journal of Chemical Information and Modeling, 2015, 55, 2275-2287.	2.5	17
25	Bond Additive Modeling 5. Mathematical Properties of the Variable Sum Exdeg Index. Croatica Chemica Acta, 0, , 93-101.	0.1	17
26	Vindicating the Pauling-bond-order concept. Chemical Physics Letters, 2006, 427, 418-420.	1.2	16
27	π-electron currents in polycyclic conjugated hydrocarbons: Coronene and its isomers having five and seven member rings. International Journal of Quantum Chemistry, 2012, 112, 972-985.	1.0	14
28	An efficient method to enumerate topologically distinct clusters of hydrogen-bonding in water molecules. Chemical Physics Letters, 2005, 416, 212-214.	1.2	13
29	Bond additive modeling 10. Upper and lower bounds of bond incident degree indices of catacondensed fluoranthenes. Chemical Physics Letters, 2011, 515, 186-189.	1.2	13
30	Network descriptors based on betweenness centrality and transmission and their extremal values. Discrete Applied Mathematics, 2013, 161, 2678-2686.	0.5	11
31	Tools for Designing Amphipathic Helical Antimicrobial Peptides. Methods in Molecular Biology, 2017, 1548, 23-34.	0.4	10
32	On the complexity of Archimedean solids. Journal of Mathematical Chemistry, 2006, 39, 119-132.	0.7	9
33	Linear regression model of DNA sequences and its application. Journal of Computational Chemistry, 2007, 28, 1434-1445.	1.5	9
34	Partition of π-electrons between faces of polyhedral carbon aggregates. Journal of Mathematical Chemistry, 2008, 43, 773-779.	0.7	8
35	Compression ratio of Wiener index in 2-d rectangular and polygonal lattices. Ars Mathematica Contemporanea, 2014, 7, 1-12.	0.3	8
36	On Wiener–type polynomials of thorn graphs. Journal of Chemometrics, 2009, 23, 600-604.	0.7	7

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37	On the path-Zagreb matrix. Journal of Mathematical Chemistry, 2009, 45, 538-543.	0.7	7
38	Conjugated circuits currents in hexabenzocoronene and its derivatives formed by joining proximal carbons. Journal of Computational Chemistry, 2012, 33, 1111-1122.	1.5	7
39	The Anti-Kekule number of the infinite triangular, rectangular and hexagonal grids. Glasnik Matematicki, 2008, 43, 243-252.	0.1	7
40	On the edge degrees of trees. Glasnik Matematicki, 2009, 44, 259-266.	0.1	7
41	Optimizing the diagnostic capacity for COVID-19 PCR testing for low resource and high demand settings: The development of information-dependent pooling protocol. Journal of Global Health, 2020, 10, 020515.	1.2	7
42	On Acyclic Molecular Graphs with Prescribed Numbers of Edges that Connect Vertices with given Degrees. Journal of Mathematical Chemistry, 2006, 40, 155-178.	0.7	5
43	On the number of Kekulé structures of fluoranthene congeners. Journal of the Serbian Chemical Society, 2010, 75, 1093-1098.	0.4	5
44	Relative edge betweenness centrality. Ars Mathematica Contemporanea, 2017, 12, 261-270.	0.3	5
45	Characterization of distribution of pi-electrons amongst benzenoid rings for Randić's "algebraic" Kekulé structures. Journal of Mathematical Chemistry, 2005, 37, 163-170.	0.7	4
46	Mathematical studies of Kekulé structures. Structural Chemistry, 2007, 18, 807-812.	1.0	4
47	Note on ordering and complexity of Platonic and Archimedean polyhedra based on solid angles. Journal of Mathematical Chemistry, 2008, 44, 725-730.	0.7	4
48	Statistical investigation of new topological indices based on the molecular path code. Chemical Physics Letters, 2008, 464, 155-159.	1.2	4
49	On the anti-Kekulé number of leapfrog fullerenes. Journal of Mathematical Chemistry, 2009, 45, 431-441.	0.7	4
50	Which generalized Randić indices are suitable measures of molecular branching?. Discrete Applied Mathematics, 2010, 158, 2056-2065.	0.5	4
51	A note on the Estrada–Hatano communicability algorithm for detecting community structure in complex networks. Applied Mathematics and Computation, 2010, 217, 3516-3521.	1.4	4
52	Global forcing number for maximal matchings. Discrete Mathematics, 2018, 341, 801-809.	0.4	4
53	On the extremal values of ratios of number of paths. Ars Mathematica Contemporanea, 2010, 3, 215-235.	0.3	4
54	Paths and walks in acyclic structures: Kenograms versus plerograms. Arkivoc, 2005, 2005, 33-44.	0.3	4

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55	Limitations of Pauling Bond Order Concept. Polycyclic Aromatic Compounds, 2012, 32, 36-47.	1.4	3
56	Ï€â€Electron currents in larger fully aromatic benzenoids. International Journal of Quantum Chemistry, 2012, 112, 2456-2462.	1.0	3
57	Topological Determination of 13Câ€"NMR Spectra of C66 Fullerenes. Carbon Materials, 2011, , 205-216.	0.2	3
58	Kekulé Structure Count in Corazulenic Fullerenes. Journal of Nanoscience and Nanotechnology, 2007, 7, 1321-1328.	0.9	3
59	Binary coding of algebraic Kekulé structures of catacondensed benzenoid graphs. Applied Mathematics Letters, 2008, 21, 712-716.	1.5	2
60	On decompositions of leapfrog fullerenes. Journal of Mathematical Chemistry, 2009, 45, 406-416.	0.7	2
61	A measure for a balanced workload and its extremal values. Discrete Applied Mathematics, 2016, 200, 59-66.	0.5	2
62	Almost All Trees and Chemical Trees Have Equiseparable Mates. Journal of Computer Chemistry Japan, 2004, 3, 109-112.	0.0	2
63	A few examples and counterexamples in spectral graph theory. Discussiones Mathematicae - Graph Theory, 2020, 40, 637.	0.2	2
64	On Kekulé structures count. Journal of Mathematical Chemistry, 2009, 45, 279-286.	0.7	1
65	Tubercular fulleroids. Journal of Mathematical Chemistry, 2009, 45, 513-524.	0.7	1
66	On functionalized fullerenes C 60 X n. Journal of Mathematical Chemistry, 2009, 45, 557-562.	0.7	1
67	One-two descriptor. Journal of Mathematical Chemistry, 2010, 48, 395-400.	0.7	1
68	On indices of Wiener and anti-Wiener type. Discrete Applied Mathematics, 2018, 251, 290-298.	0.5	1
69	Applications of Perfect Matchings in Chemistry. , 2011, , 463-482.		1
70	Evaluating topological ordering in directed acyclic graphs. Electronic Journal of Graph Theory and Applications, 2021, 9, 567.	0.2	1
71	Master Connectivity Index and Master Connectivity Polynomial. Current Computer-Aided Drug Design, 2010, 6, 235-239.	0.8	1
72	Multicoloring of graphs to secure a secret. Rad Hrvatske Akademije Znanosti I Umjetnosti, Matematicke Znanosti, 2018, 534, 1-22.	0.4	1

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73	Algebraic Kekule Structures of Benzenoid Hydrocarbons.. ChemInform, 2004, 35, no.	0.1	0
74	Design of selective peptide antibiotics by using the sequence moment concept. Nature Precedings, 2009, , .	0.1	0
75	Design of selective peptide antibiotics by using the sequence moment concept. Nature Precedings, 2009, , .	0.1	0
76	Using size for bounding expressions ofÂgraph invariants. Annals of Operations Research, 2011, 188, 415-427.	2.6	0
77	Decomposition of complete graphs into factors of diameter two and three. Discussiones Mathematicae - Graph Theory, 2003, 23, 37.	0.2	0
78	Mix-decomposition of the complete graph into directed factors of diameter 2 and undirected factors of diameter 3. Glasnik Matematicki, 2003, 38, 211-232.	0.1	0
79	Generalised network descriptors. Glasnik Matematicki, 2013, 48, 211-230.	0.1	0
80	One-alpha weighted network descriptors. Rad Hrvatske Akademije Znanosti I Umjetnosti MatematiÄke Znanosti, 2019, Knj. 538, 58, 31-49.	0.6	0
81	Exponential generalised network descriptors. Advances in Mathematics of Communications, 2019, 13, 405-420.	0.4	0