Damir Vukicevic

List of Publications by Year
in descending order

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81	1,848	361296	289141
papers	citations	20 h-index	40 g-index

84	84	84	1146
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluating topological ordering in directed acyclic graphs. Electronic Journal of Graph Theory and Applications, 2021, 9, 567.	0.2	1
2	A few examples and counterexamples in spectral graph theory. Discussiones Mathematicae - Graph Theory, 2020, 40, 637.	0.2	2
3	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
4	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
5	One-alpha weighted network descriptors. Rad Hrvatske Akademije Znanosti I Umjetnosti MatematiÄke Znanosti, 2019, Knj. 538, 58, 31-49.	0.6	0
6	Exponential generalised network descriptors. Advances in Mathematics of Communications, 2019, 13, 405-420.	0.4	0
7	Global forcing number for maximal matchings. Discrete Mathematics, 2018, 341, 801-809.	0.4	4
8	Antibacterial Activity Affected by the Conformational Flexibility in Glycineâ€“Lysine Based Î±-Helical Antimicrobial Peptides. Journal of Medicinal Chemistry, 2018, 61, 2924-2936.	2.9	48
9	On indices of Wiener and anti-Wiener type. Discrete Applied Mathematics, 2018, 251, 290-298.	0.5	1
10	Multicoloring of graphs to secure a secret. Rad Hrvatske Akademije Znanosti I Umjetnosti, Matematicke Znanosti, 2018, 534, 1-22.	0.4	1
11	Tools for Designing Amphipathic Helical Antimicrobial Peptides. Methods in Molecular Biology, 2017, 1548, 23-34.	0.4	10
12	Relative edge betweenness centrality. Ars Mathematica Contemporanea, 2017, 12, 261-270.	0.3	5
13	A measure for a balanced workload and its extremal values. Discrete Applied Mathematics, 2016, 200, 59-66.	0.5	2
14	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
15	Community structure in networks: Girvan-Newman algorithm improvement. , 2014, , .		28
16	Compression ratio of Wiener index in 2-d rectangular and polygonal lattices. Ars Mathematica Contemporanea, 2014, 7, 1-12.	0.3	8
17	Network descriptors based on betweenness centrality and transmission and their extremal values. Discrete Applied Mathematics, 2013, 161, 2678-2686.	0.5	11
18	Generalised network descriptors. Glasnik Matematicki, 2013, 48, 211-230.	0.1	0

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19	Limitations of Pauling Bond Order Concept. Polycyclic Aromatic Compounds, 2012, 32, 36-47.	1.4	3
20	Improving the Selectivity of Antimicrobial Peptides from Anuran Skin. Journal of Chemical Information and Modeling, 2012, 52, 3341-3351.	2.5	30
21	Computer search for trees with minimal ABC index. Applied Mathematics and Computation, 2012, 219, 767-772.	1.4	25
22	Ï€â€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
23	Ï€â€Electron currents in larger fully aromatic benzenoids. International Journal of Quantum Chemistry, 2012, 112, 2456-2462.	1.0	3
24	Conjugated circuits currents in hexabenzocoronene and its derivatives formed by joining proximal carbons. Journal of Computational Chemistry, 2012, 33, 1111-1122.	1.5	7
25	On the vertex degree indices of connected graphs. Chemical Physics Letters, 2011, 512, 283-286.	1.2	24
26	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
27	Using size for bounding expressions ofÂgraph invariants. Annals of Operations Research, 2011, 188, 415-427.	2.6	0
28	Knowledge-based computational methods for identifying or designing novel, non-homologous antimicrobial peptides. European Biophysics Journal, 2011, 40, 371-385.	1.2	50
29	Topological efficiency of C66 fullerene. Chemical Physics Letters, 2011, 501, 442-445.	1.2	44
30	Applications of Perfect Matchings in Chemistry. , 2011, , 463-482.		1
31	Topological Determination of 13Câ€“NMR Spectra of C66 Fullerenes. Carbon Materials, 2011, , 205-216.	0.2	3
32	Which generalized RandiÄ‡ indices are suitable measures of molecular branching?. Discrete Applied Mathematics, 2010, 158, 2056-2065.	0.5	4
33	A note on the Estradaâ€“Hatano communicability algorithm for detecting community structure in complex networks. Applied Mathematics and Computation, 2010, 217, 3516-3521.	1.4	4
34	Augmented Zagreb index. Journal of Mathematical Chemistry, 2010, 48, 370-380.	0.7	299
35	One-two descriptor. Journal of Mathematical Chemistry, 2010, 48, 395-400.	0.7	1
36	On the number of KekulÃ© structures of fluoranthene congeners. Journal of the Serbian Chemical Society, 2010, 75, 1093-1098.	0.4	5

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37	On the extremal values of ratios of number of paths. Ars Mathematica Contemporanea, 2010, 3, 215-235.	0.3	4
38	Master Connectivity Index and Master Connectivity Polynomial. Current Computer-Aided Drug Design, 2010, 6, 235-239.	0.8	1
39	Note on the comparison of the first and second normalized zagreb eccentricity indices. Acta Chimica Slovenica, 2010, 57, 524-8.	0.2	39
40	Design of selective peptide antibiotics by using the sequence moment concept. Nature Precedings, 2009, , .	0.1	0
41	Design of selective peptide antibiotics by using the sequence moment concept. Nature Precedings, 2009, , .	0.1	0
42	On Wienerâ€type polynomials of thorn graphs. Journal of Chemometrics, 2009, 23, 600-604.	0.7	7
43	Variable neighborhood search for extremal graphs. 23. On the RandiÄ‡ index and the chromatic number. Discrete Mathematics, 2009, 309, 4228-4234.	0.4	31
44	On KekulÃ© structures count. Journal of Mathematical Chemistry, 2009, 45, 279-286.	0.7	1
45	On decompositions of leapfrog fullerenes. Journal of Mathematical Chemistry, 2009, 45, 406-416.	0.7	2
46	On the anti-KekulÃ© number of leapfrog fullerenes. Journal of Mathematical Chemistry, 2009, 45, 431-441.	0.7	4
47	Tubercular fulleroids. Journal of Mathematical Chemistry, 2009, 45, 513-524.	0.7	1
48	On the path-Zagreb matrix. Journal of Mathematical Chemistry, 2009, 45, 538-543.	0.7	7
49	On functionalized fullerenes C 60 X n. Journal of Mathematical Chemistry, 2009, 45, 557-562.	0.7	1
50	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
51	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
52	Atomâ€“bond connectivity index of trees. Discrete Applied Mathematics, 2009, 157, 2828-2835.	0.5	106
53	Computational Design of Highly Selective Antimicrobial Peptides. Journal of Chemical Information and Modeling, 2009, 49, 2873-2882.	2.5	79
54	On the edge degrees of trees. Glasnik Matematicki, 2009, 44, 259-266.	0.1	7

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55	On the anti-KekulÃ© number and anti-forcing number of cata-condensed benzenoids. Journal of Mathematical Chemistry, 2008, 43, 719-726.	0.7	26
56	Partition of Ï€-electrons between faces of polyhedral carbon aggregates. Journal of Mathematical Chemistry, 2008, 43, 773-779.	0.7	8
57	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
58	Binary coding of algebraic KekulÃ© structures of catacondensed benzenoid graphs. Applied Mathematics Letters, 2008, 21, 712-716.	1.5	2
59	Statistical investigation of new topological indices based on the molecular path code. Chemical Physics Letters, 2008, 464, 155-159.	1.2	4
60	The Anti-Kekule number of the infinite triangular, rectangular and hexagonal grids. Glasnik Matematicki, 2008, 43, 243-252.	0.1	7
61	Numerical KekulÃ© Structures of Fullerenes and Partitioning of Ï€-Electrons to Pentagonal and Hexagonal Rings. Journal of Chemical Information and Modeling, 2007, 47, 897-904.	2.5	22
62	Linear regression model of DNA sequences and its application. Journal of Computational Chemistry, 2007, 28, 1434-1445.	1.5	9
63	Computing the bipartite edge frustration of fullerene graphs. Discrete Applied Mathematics, 2007, 155, 1294-1301.	0.5	35
64	Mathematical studies of KekulÃ© structures. Structural Chemistry, 2007, 18, 807-812.	1.0	4
65	KekulÃ© Structure Count in Corazulenic Fullerenes. Journal of Nanoscience and Nanotechnology, 2007, 7, 1321-1328.	0.9	3
66	Vindicating the Pauling-bond-order concept. Chemical Physics Letters, 2006, 427, 418-420.	1.2	16
67	On the complexity of Archimedean solids. Journal of Mathematical Chemistry, 2006, 39, 119-132.	0.7	9
68	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
69	On KekulÃ© structures of buckminsterfullerene. Chemical Physics Letters, 2005, 401, 446-450.	1.2	31
70	An efficient method to enumerate topologically distinct clusters of hydrogen-bonding in water molecules. Chemical Physics Letters, 2005, 416, 212-214.	1.2	13
71	Characterization of distribution of pi-electrons amongst benzenoid rings for RandiÄ‡â€™s â€œalgebraicâ€• KekulÃ© structures. Journal of Mathematical Chemistry, 2005, 37, 163-170.	0.7	4
72	Canonical Labeling of Proteome Maps. Journal of Proteome Research, 2005, 4, 1347-1352.	1.8	18

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73	Paths and walks in acyclic structures: Kenograms versus plerograms. Arkivoc, 2005, 2005, 33-44.	0.3	4
74	Partitioning of Ï€-electrons in Rings of Polycyclic Conjugated Hydrocarbons. Part 4. Benzenoids with More Than One Geometric KekulÃ© Structure Corresponding to the Same Algebraic KekulÃ© Structure. Journal of Mathematical Chemistry, 2004, 36, 271-279.	0.7	30
75	Algebraic Kekule Structures of Benzenoid Hydrocarbons.. ChemInform, 2004, 35, no.	0.1	0
76	Algebraic KekulÃ© Structures of Benzenoid Hydrocarbonsâ€. Journal of Chemical Information and Computer Sciences, 2004, 44, 296-299.	2.8	34
77	Almost All Trees and Chemical Trees Have Equiseparable Mates. Journal of Computer Chemistry Japan, 2004, 3, 109-112.	0.0	2
78	Decomposition of complete graphs into factors of diameter two and three. Discussiones Mathematicae - Graph Theory, 2003, 23, 37.	0.2	0
79	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
80	Bond Additive Modeling 4. QSPR and QSAR Studies of the Variable Adriatic Indices. Croatica Chemica Acta, 0, , 87-91.	0.1	30
81	Bond Additive Modeling 5. Mathematical Properties of the Variable Sum Exdeg Index. Croatica Chemica Acta, 0, , 93-101.	0.1	17