Sonja Nikolic

List of Publications by Year
in descending order

83	2,465	270111	232693
papers	citations	25 h-index	48 g-index

86	86	86	1385
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Topological Complexity of Molecules. , 2018, , 1-21.		0
2	Distributed curvature and stability of fullerenes. Physical Chemistry Chemical Physics, 2015, 17, 23257-23264.	1.3	5
3	Synthesis, QSAR, and Molecular Dynamics Simulation of Amidino-substituted Benzimidazoles as Dipeptidyl Peptidase III Inhibitors. Acta Chimica Slovenica, 2015, 62, 867-878.	0.2	7
4	Topological Complexity of Molecules. , 2014, , 1-21.		0
5	The Sum-Connectivity Index - An Additive Variant of the Randic Connectivity Index§. Current Computer-Aided Drug Design, 2013, 9, 184-194.	0.8	7
6	On the additive version of the connectivity index. , 2012, , .		2
7	Two-dimensional quantitative structureâ€“activity relationship study on polyphenols as inhibitors of Î±-glucosidase. Medicinal Chemistry Research, 2012, 21, 3984-3993.	1.1	17
8	Prefaces of the symposia on mathematical chemistry. , 2012, , .		0
9	Coding and Ordering Benzenoids and Their KekulÃ© Structures. Carbon Materials, 2011, , 205-225.	0.2	0
10	Master Connectivity Index and Master Connectivity Polynomial. Current Computer-Aided Drug Design, 2010, 6, 235-239.	0.8	1
11	On the Eigenvalues of the Ordinary and Reciprocal Resistance-Distance Matrices. , 2009, , .		0
12	On the path-Zagreb matrix. Journal of Mathematical Chemistry, 2009, 45, 538-543.	0.7	7
13	Molecular modeling of wine polyphenols. Journal of Mathematical Chemistry, 2009, 46, 820-833.	0.7	2
14	A novel algorithm for QSAR. International Journal of Quantum Chemistry, 2009, 36, 323-330.	1.0	0
15	Improvement of Ensemble of Multi-Regression Structure-Toxicity Models by Clustering of Molecules in Descriptor Space. , 2009, , .		1
16	Recent Advances in the Theory of Zagreb Indices. AIP Conference Proceedings, 2007, , .	0.3	0
17	Professor Nenad TrinajstiÄ‡: Distinguished Researcher in Mathematical Chemistry. Journal of Chemical Information and Modeling, 2007, 47, 705-706.	2.5	0
18	Preface of the 5th Symposium on Mathematical Chemistry. AIP Conference Proceedings, 2007, , .	0.3	0

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19	Retro-Leapfrog and Related Retro Map Operations. Journal of Chemical Information and Modeling, 2006, 46, 2574-2578.	2.5	9
20	Toxicity of Aliphatic Ethers: A Comparative Study. Molecular Diversity, 2006, 10, 95-99.	2.1	4
21	On Zagreb Matrices and Derived Descriptors. , 2006, , 405-409.		1
22	Preface of the 4th Symposium on Mathematical Chemistry. , 2006, , 1340-1342.		0
23	Data Visualization of Multivariate (Non)Linear Regression Ensembles in QSAR/QSPR. , 2006, , 1343-1346.		0
24	Paths and walks in acyclic structures: Kenograms versus plerograms. Arkivoc, 2005, 2005, 33-44.	0.3	4
25	On Use of the Variable Zagreb vM2 Index in QSPR: Boiling Points of Benzenoid Hydrocarbons. Molecules, 2004, 9, 1208-1221.	1.7	27
26	On reformulated Zagreb indices. Molecular Diversity, 2004, 8, 393-399.	2.1	143
27	Coding and Ordering Kekule Structures.. ChemInform, 2004, 35, no.	0.1	0
28	Coding and Ordering KekulÃ© Structuresâ€. Journal of Chemical Information and Computer Sciences, 2004, 44, 415-421.	2.8	24
29	Nanotubes: Number of Kekule Structures and Aromaticity.. ChemInform, 2003, 34, no.	0.1	0
30	Nanotubes:â€‰ Number of KekulÃ© Structures and Aromaticity. Journal of Chemical Information and Computer Sciences, 2003, 43, 609-614.	2.8	22
31	Structure-water solubility modeling of aliphatic alcohols using the weighted path numbers. SAR and QSAR in Environmental Research, 2002, 13, 281-295.	1.0	5
32	Resistance-distance matrix: A computational algorithm and its application. International Journal of Quantum Chemistry, 2002, 90, 166-176.	1.0	151
33	On relationships between vertex-degrees, path-numbers and graph valence-shells in trees. Chemical Physics Letters, 2002, 354, 417-422.	1.2	7
34	Distance Indices and Their Hyper-Counterparts: Intercorrelation and Use in the Structure-Property Modeling. SAR and QSAR in Environmental Research, 2001, 12, 31-54.	1.0	31
35	Distance-Related Indexes in the Quantitative Structureâ^'Property Relationship Modelingâ€. Journal of Chemical Information and Computer Sciences, 2001, 41, 527-535.	2.8	43
36	Wiener index revisited. Chemical Physics Letters, 2001, 333, 319-321.	1.2	34

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37	A comparative QSAR study of benzamidines complementâ€“inhibitory activity and benzene derivatives acute toxicity. Computers & Chemistry, 2000, 24, 181-191.	1.2	15
38	QSPR Modeling:â€‰ Graph Connectivity Indices versus Line Graph Connectivity Indices. Journal of Chemical Information and Computer Sciences, 2000, 40, 927-933.	2.8	23
39	Complexity of Molecules. Journal of Chemical Information and Computer Sciences, 2000, 40, 920-926.	2.8	31
40	Resistance distance in regular graphs. International Journal of Quantum Chemistry, 1999, 71, 217-225.	1.0	89
41	Bond lengths and bond orders in benzenoid hydrocarbons and related systems: a comparison of valence bond and molecular orbital treatments. Computational and Theoretical Chemistry, 1998, 427, 25-37.	1.5	10
42	Modeling the Aqueous Solubility of Aliphatic Alcohols. SAR and QSAR in Environmental Research, 1998, 9, 117-126.	1.0	7
43	The Vertex-Connectivity Index Revisited. Journal of Chemical Information and Computer Sciences, 1998, 38, 819-822.	2.8	205
44	Comparison between the Vertex- and Edge-Connectivity Indices for Benzenoid Hydrocarbons. Journal of Chemical Information and Computer Sciences, 1998, 38, 42-46.	2.8	38
45	Clar Polynomials of Large Benzenoid Systems. Journal of Chemical Information and Computer Sciences, 1998, 38, 563-574.	2.8	12
46	The Detour Matrix in Chemistryâ€. Journal of Chemical Information and Computer Sciences, 1997, 37, 631-638.	2.8	37
47	Hierarchical orthogonalization of descriptors. International Journal of Quantum Chemistry, 1997, 63, 215-222.	1.0	58
48	On computing the molecular detour matrix. International Journal of Quantum Chemistry, 1997, 65, 415-419.	1.0	18
49	Ab initio and molecular mechanics conformational analysis of neutralL-proline. International Journal of Quantum Chemistry, 1997, 65, 1033-1045.	1.0	43
50	Compact Codes: On Nomenclature of Acyclic Chemical Compounds. Journal of Chemical Information and Computer Sciences, 1995, 35, 357-365.	2.8	8
51	The Structure-Property Models Can Be Improved Using the Orthogonalized Descriptors. Journal of Chemical Information and Computer Sciences, 1995, 35, 532-538.	2.8	76
52	Toxic Effects and a Structure-Property Study of Organic Explosives, Propellants, and Related Compounds. Drug Metabolism Reviews, 1994, 26, 717-738.	1.5	12
53	Graphical bond orders: Novel structural descriptors. Journal of Chemical Information and Computer Sciences, 1994, 34, 403-409.	2.8	21
54	The Laplacian matrix in chemistry. Journal of Chemical Information and Computer Sciences, 1994, 34, 368-376.	2.8	73

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55	Prognostic value of steroid hormone receptors concentration in patients with endometrial Carcinoma. Acta Obstetricia Et Gynecologica Scandinavica, 1994, 73, 730-733.	1.3	16
56	On the Harary index for the characterization of chemical graphs. Journal of Mathematical Chemistry, 1993, 12, 235-250.	0.7	315
57	Molecular topological index: An extension to heterosystems. Journal of Mathematical Chemistry, 1993, 12, 251-264.	0.7	22
58	Comparative study of molecular descriptors derived from the distance matrix. Journal of Chemical Information and Computer Sciences, 1992, 32, 28-37.	2.8	134
59	Molecular topological index: An application in the QSAR study of toxicity of alcohols. Journal of Mathematical Chemistry, 1992, 11, 179-186.	0.7	16
60	The distance matrix in chemistry. Journal of Mathematical Chemistry, 1992, 11, 223-258.	0.7	115
61	On the z-counting polynomial for edge-weighted graphs. Journal of Mathematical Chemistry, 1992, 9, 381-387.	0.7	7
62	The conjugated-circuit model: application to nonalternant hydrocarbons and a comparison with some other theoretical models of aromaticity. Computational and Theoretical Chemistry, 1992, 277, 213-237.	1.5	14
63	Selective effect of ethanol on norepinephrine- and nicotine-induced emesis in cats. Alcohol, 1991, 8, 499-501.	0.8	6
64	On the classification and enumeration of planar polyhex hydrocarbons. Computational and Theoretical Chemistry, 1991, 231, 219-225.	1.5	2
65	The reduced graph model revisited. Computational and Theoretical Chemistry, 1991, 227, 79-86.	1.5	4
66	Quantum-mechanical and computational aspects of the conjugated-circuit model. Computational and Theoretical Chemistry, 1991, 229, 63-89.	1.5	26
67	On the geometric-distance matrix and the corresponding structural invariants of molecular systems. Chemical Physics Letters, 1991, 179, 21-28.	1.2	35
68	The conjugated-circuit model: The optimum parameters for benzenoid hydrocarbons. Journal of Mathematical Chemistry, 1991, 8, 113-120.	0.7	11
69	On the three-dimensional wiener number. A comment. Journal of Mathematical Chemistry, 1990, 5, 305-306.	0.7	18
70	On the concept of the weighted spanning tree of dualist. Journal of Mathematical Chemistry, 1990, 4, 357-375.	0.7	33
71	On the enumeration and generation of polyhex hydrocarbons. Journal of Computational Chemistry, 1990, 11, 223-235.	1.5	34
72	The conjugated-circuit model. Computers & Chemistry, 1990, 14, 313-322.	1.2	30

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73	Isospectbal graphs revisited. Computational and Theoretical Chemistry, 1989, 185, 95-121.	1.5	17
74	The conjugated-circuit model: application to benzenoid hydrocarbons. Journal of Molecular Structure, 1989, 198, 223-237.	1.8	39
75	On the three-dimensional wiener number. Journal of Mathematical Chemistry, 1989, 3, 299-309.	0.7	95
76	A rational selection of graph-theoretical indices in the QSAR. International Journal of Quantum Chemistry, 1988, 34, 267-285.	1.0	18
77	On the aromatic stabilities of thiophene analogues of helicenes. Computational and Theoretical Chemistry, 1988, 181, 111-140.	1.5	11
78	Compact molecular codes for polycyclic systems. Computational and Theoretical Chemistry, 1988, 165, 213-228.	1.5	6
79	Aromaticity in heterocyclic molecules containing divalent sulfur. Collection of Czechoslovak Chemical Communications, 1988, 53, 2023-2054.	1.0	8
80	On the use of the weighted identification numbers in the QSAR study of the toxicity of aliphatic ethers. International Journal of Quantum Chemistry, 1987, 32, 325-330.	1.0	8
81	On the Aromatic Stability of Azulenofurans, Azulenopyrroles and Azulenothiophenes. Heterocycles, 1987, 26, 2025.	0.4	8
82	Inhibition of the electrode reaction in the presence of surfactants studied by differential pulse polarography. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1982, 137, 279-292.	0.3	33
83	The influence of kinetics on the direct titration curves of natural water systems â€" theoretical considerations. Analytica Chimica Acta, 1982, 140, 331-334.	2.6	17