

Alexandru T Balaban

List of Publications by Year in descending order

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240
papers

8,010
citations

61984

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#	ARTICLE	IF	CITATIONS
1	Criteria for ranking (poly)cyclic chemical constitutional graphs and their vertices via centrality measures. <i>Journal of Mathematical Chemistry</i> , 2020, 58, 439-457.	1.5	2
2	Two new topological indices based on graph adjacency matrix eigenvalues and eigenvectors. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 1053-1074.	1.5	9
3	On pyrlyium cations, molecular graphs, topological indices for QSAR, and various other structural problems. <i>Structural Chemistry</i> , 2019, 30, 1129-1139.	2.0	2
4	Local aromaticity and aromatic sextet theory beyond Clar. <i>International Journal of Quantum Chemistry</i> , 2018, 118, e25657.	2.0	22
5	Crystal and molecular structure of 1-picryl-2-phenyl-2-(4-picrylamidophenyl)-diazonium betaine: analogy between a picramido group and an oxygen atom. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2017, 72, 89-94.	0.7	6
6	Chemistry-Mathematics-Philosophy Brew: a Personal Approach. <i>Journal of Computer Chemistry Japan</i> , 2017, 16, 33-37.	0.1	0
7	Energies for cyclic and acyclic aggregations of adamantane and diamantane units sharing vertices, edges, or six-membered rings. <i>International Journal of Quantum Chemistry</i> , 2016, 116, 113-122.	2.0	2
8	NMR spectral properties of the tetramantanes " nanometer-sized diamondoids. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 1003-1018.	1.9	5
9	Cyclic Diamondoid Structures with Shared Vertices, Edges, or 6-membered Rings. <i>Croatica Chemica Acta</i> , 2015, 88, 7-14.	0.4	2
10	Aromaticity and Conjugation in 1,2-Benzoquinone Valence Isomers and Congeners. <i>Advances in Heterocyclic Chemistry</i> , 2014, 113, 111-142.	1.7	6
11	Helical [n]catamantanes and all-trans-perhydroacenic [n]perimantanes: structures and von Baeyer IUPAC numbering of carbon atoms. <i>Arkivoc</i> , 2014, 2014, 346-361.	0.5	3
12	Drug Design, <i>Molecular Descriptors in.</i> , 2014, , 1-31.		1
13	Bond-switch defects in carbon allotropes: Stone-Wales and connected exchange. <i>Chemical Physics Letters</i> , 2013, 566, 50-53.	2.6	2
14	Diamond hydrocarbons revisited: partitioned formula tables of diamondoids. <i>Journal of Mathematical Chemistry</i> , 2013, 51, 1043-1055.	1.5	7
15	Diamond Hydrocarbons and Related Structures. <i>Carbon Materials</i> , 2013, , 1-27.	1.2	5
16	Theoretical Study of Hole-Containing Macromolecular Diamond Lattices and Corona-Diamondoid Molecules or their Heteroatomic Derivatives. <i>Croatica Chemica Acta</i> , 2013, 86, 371-378.	0.4	0
17	Partitioned-Formula Periodic Tables for Diamond Hydrocarbons (Diamondoids). <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 2856-2863.	5.4	9
18	Conjugated circuits currents in hexabenzocoronene and its derivatives formed by joining proximal carbons. <i>Journal of Computational Chemistry</i> , 2012, 33, 1111-1122.	3.3	7

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19	Graphical Representation of Proteins. <i>Chemical Reviews</i> , 2011, 111, 790-862.	47.7	104
20	Defining rules of aromaticity: a unified approach to the Hückel, Clar and Randić concepts. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3737-3747.	2.8	26
21	Structural Approach to Aromaticity and Local Aromaticity in Conjugated Polycyclic Systems. <i>Carbon Materials</i> , 2011, , 159-204.	1.2	5
22	Using Clar sextets for two- and three-dimensional aromatic systems. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20649.	2.8	25
23	Effect of benzo-annulation on cyclic conjugation. <i>Monatshefte für Chemie</i> , 2011, 142, 53-57.	1.8	12
24	Local aromaticity in benzo- and benzocyclobutadieno-annelated anthracenes. <i>Monatshefte für Chemie</i> , 2011, 142, 797-800.	1.8	9
25	Local Aromaticity in Benzo- and Benzocyclobutadieno-Annelated Phenanthrenes. <i>Polycyclic Aromatic Compounds</i> , 2011, 31, 339-349.	2.6	6
26	Nonconvex polyhedra by repeated truncation of semiregular polyhedra. <i>Journal of Mathematical Chemistry</i> , 2010, 47, 1177-1183.	1.5	0
27	N-Alkoxy-3,5-dinitro-4-aminobenzoic acid derivatives with controlled physico-chemical properties. <i>Structural Chemistry</i> , 2010, 21, 1227-1234.	2.0	3
28	Molecular and crystal structure of a self-assembling pyridinium cationic lipid. <i>Journal of Molecular Structure</i> , 2010, 984, 228-231.	3.6	8
29	Monocyclic Hetarenes with π -Electron Aromatic Sextet. <i>Advances in Heterocyclic Chemistry</i> , 2010, 99, 61-105.	1.7	12
30	Correlations between Local Aromaticity Indices of Bipartite Conjugated Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5870-5877.	2.5	26
31	A DFT Study on Push-Pull (Amino-Nitro) Fulminenes and Hexahelicenes. <i>Polycyclic Aromatic Compounds</i> , 2010, 30, 91-111.	2.6	4
32	Patterns of ring current in coronene isomers. <i>Acta Chimica Slovenica</i> , 2010, 57, 507-12.	0.6	19
33	Reactions of 2,2'-Diphenyl-1-picrylhydrazyl (DPPH) with Two Syringylic Phenols or One Aroxide Derivative. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 626-634.	2.4	17
34	Protochirons and protohelices. <i>Journal of Mathematical Chemistry</i> , 2009, 45, 725-747.	1.5	1
35	Carbonic anhydrase inhibitors. Synthesis of 2,4,6-trimethylpyridinium derivatives of 2-(hydrazinocarbonyl)-3-aryl-1H-indole-5-sulfonamides acting as potent inhibitors of the tumor-associated isoform IX and XII. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 2931-2934.	2.2	16
36	Claromatic Carbon Nanostructures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19123-19133.	3.1	69

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37	Are Thermodynamic and Kinetic Stabilities Correlated? A Topological Index of Reactivity toward Electrophiles Used as a Criterion of Aromaticity of Polycyclic Benzenoid Hydrocarbons. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 369-376.	5.4	38
38	CYCLIC CONJUGATION IN FLUORANTHENE AND ITS BENZO-DERIVATIVES. PART 1. CATACONDENSED SYSTEMS. <i>Polycyclic Aromatic Compounds</i> , 2009, 29, 90-102.	2.6	24
39	Discovery of Low Nanomolar and Subnanomolar Inhibitors of the Mycobacterial \hat{I}^2 -Carbonic Anhydrases Rv1284 and Rv3273. <i>Journal of Medicinal Chemistry</i> , 2009, 52, 4063-4067.	6.4	82
40	A REGULARITY FOR CYCLIC CONJUGATION IN ACENAPHYHYLENE, FLUORANTHENE AND THEIR CONGENERS. <i>Polycyclic Aromatic Compounds</i> , 2009, 29, 3-11.	2.6	29
41	COMMENTS ON \hat{I}^2 -ELECTRON CONJUGATION IN THE FIVE-MEMBERED RING OF BENZO-DERIVATIVES OF CORANNULENE. <i>Polycyclic Aromatic Compounds</i> , 2009, 29, 185-208.	2.6	12
42	Drug Design, Molecular Descriptors in. , 2009, , 2196-2215.		3
43	Partition of \hat{I}^2 -electrons between faces of polyhedral carbon aggregates. <i>Journal of Mathematical Chemistry</i> , 2008, 43, 773-779.	1.5	8
44	Note on ordering and complexity of Platonic and Archimedean polyhedra based on solid angles. <i>Journal of Mathematical Chemistry</i> , 2008, 44, 725-730.	1.5	4
45	Ring signatures for benzenoids with up to seven rings, Part 2: Pericondensed systems. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 898-926.	2.0	12
46	Ring signatures for benzenoids with up to seven rings, Part 1: Catacondensed systems. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 865-897.	2.0	14
47	Synthesis and electron paramagnetic resonance study of a nitroxide free radical covalently bonded on aminopropyl-silica gel. <i>Applied Surface Science</i> , 2008, 254, 1904-1908.	6.1	9
48	Statistical investigation of new topological indices based on the molecular path code. <i>Chemical Physics Letters</i> , 2008, 464, 155-159.	2.6	4
49	EFFECT OF HETEROATOMS ON PARTITIONING OF \hat{I}^2 -ELECTRONS IN RINGS OF CATAFUSENES. <i>Polycyclic Aromatic Compounds</i> , 2008, 28, 85-97.	2.6	8
50	Correlations between various ways of accounting for the distribution of \hat{I}^2 -electrons in benzenoids. <i>New Journal of Chemistry</i> , 2008, 32, 1071.	2.8	10
51	New Chessboard (8x8) Representation of the Standard Genetic Code, and Its Application for Representing Primary Structures of Proteins. , 2008, , .		0
52	A New Yardstick for Benzenoid Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11769-11776.	2.5	5
53	\hat{I}^2 -Electron Partitions, Signatures, and Clar Structures of Selected Benzenoid Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4148-4157.	2.5	13
54	3,5-Dinitro-N-(4 \hat{I}^2 -benzo-15-crown-5)-benzamide derivatives. Synthesis and properties. <i>Arkivoc</i> , 2008, 2008, 307-321.	0.5	2

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55	Four New Topological Indices Based on the Molecular Path Code. <i>Journal of Chemical Information and Modeling</i> , 2007, 47, 716-731.	5.4	21
56	PARTITIONING OF π -ELECTRONS IN RINGS OF AZA-DERIVATIVES OF POLYCYCLIC BENZENOID HYDROCARBONS. <i>Polycyclic Aromatic Compounds</i> , 2007, 27, 51-63.	2.6	17
57	Synthesis and Characterization of Some Novel Homo- and Hetero-Diradicals of Hydrazyl and Nitroxide Type. <i>Australian Journal of Chemistry</i> , 2007, 60, 173.	0.9	7
58	QSPR for Physical Properties of cata-Condensed Benzenoids Using Two Simple Dualist-Based Descriptors. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2448-2454.	2.5	9
59	Molecular Descriptors for Natural Diamondoid Hydrocarbons and Quantitative Structure-Property Relationships for Their Chromatographic Data. <i>Open Organic Chemistry Journal</i> , 2007, 1, 13-31.	0.9	16
60	QSPR correlations of half-wave reduction potentials of cata-condensed benzenoid hydrocarbons. <i>Arkivoc</i> , 2007, 2006, 104-119.	0.5	8
61	Reaction of 2-(\pm -bromoacetyl)-phenoxathiin with substituted o-, m-, or p-formyl-aroxides. <i>Arkivoc</i> , 2007, 2007, 8-22.	0.5	4
62	The Eight Classes of Positive-Curvature Graphitic Nanocones. <i>Journal of Chemical Information and Modeling</i> , 2006, 46, 307-320.	5.4	32
63	Partitioning of π -Electrons in Rings for Clar Structures of Benzenoid Hydrocarbons. <i>Journal of Chemical Information and Modeling</i> , 2006, 46, 57-64.	5.4	43
64	Strain-Free Sextet-Resonant Benzenoids and Their Antisextet Dualists. <i>Journal of Chemical Information and Modeling</i> , 2006, 46, 1563-1579.	5.4	30
65	Lipophilic Pyrylium Salts in the Synthesis of Efficient Pyridinium-Based Cationic Lipids, Gemini Surfactants, and Lipophilic Oligomers for Gene Delivery. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 3872-3887.	6.4	101
66	Is chemistry 'The Central Science'? How are different sciences related? Co-citations, reductionism, emergence, and posets. <i>Scientometrics</i> , 2006, 69, 615-637.	3.0	33
67	Crocker, Not Armit and Robinson, Begat the Six Aromatic Electrons. <i>ChemInform</i> , 2006, 37, no.	0.0	0
68	ALGORITHM FOR SIMULTANEOUS CALCULATION OF KEKULÉ% AND CLAR STRUCTURE COUNTS, AND CLAR NUMBER OF BENZENOID MOLECULES. <i>Polycyclic Aromatic Compounds</i> , 2006, 26, 17-35.	2.6	22
69	178. Structure-Activity Relationships in a Library of Pyridinium Non-Viral Vectors for Gene Delivery. <i>Molecular Therapy</i> , 2006, 13, S69.	8.2	0
70	Reaction of 2,2-Diphenyl-1-picrylhydrazyl with HO \cdot , O $_2^{\cdot-}$, HO \cdot , and HOO \cdot Radicals and Anions. <i>International Journal of Molecular Sciences</i> , 2006, 7, 130-143.	4.1	31
71	Study on supramolecular complexing ability vis-à-vis estimation of pKa of substituted sulfonamides: Dominating role of Balaban index (J). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 3966-3973.	2.2	23
72	Four-color map representation of DNA or RNA sequences and their numerical characterization. <i>Chemical Physics Letters</i> , 2005, 407, 205-208.	2.6	52

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73	Partitioning of π -electrons in rings of polycyclic conjugated hydrocarbons: Part 6. Comparison with other methods for estimating the local aromaticity of rings in polycyclic benzenoids. Journal of Mathematical Chemistry, 2005, 37, 443-453.	1.5	40
74	Can topological indices transmit information on properties but not on structures?. Journal of Computer-Aided Molecular Design, 2005, 19, 651-660.	2.9	22
75	On the Complexity of Fullerenes and Nanotubes. , 2005, , 1-48.		2
76	Partitioning of π -Electrons in Rings of Fibonacenes. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2005, 60, 171-176.	1.5	21
77	π -ELECTRON CONTENTS OF RINGS IN THE DOUBLE-HEXAGONAL-CHAIN HOMOLOGOUS SERIES (PYRENE,) Tj ETQq1.1 0.784314 rgB7/16	2.6	16
78	Crocker, Not Armit and Robinson, Begat the Six Aromatic Electrons. Chemical Reviews, 2005, 105, 3436-3447.	47.7	126
79	Pyridinium cationic lipids in gene delivery: an in vitro and in vivo comparison of transfection efficiency versus a tetraalkylammonium congener. Archives of Biochemistry and Biophysics, 2005, 435, 217-226.	3.0	72
80	Synthesis and properties of dinitrobenzamido-TEMPO derivatives. Arkivoc, 2005, 2005, 225-237.	0.5	5
81	Clar Formulas: How to Draw and How not to Draw Formulas of Polycyclic Aromatic Hydrocarbons. Polycyclic Aromatic Compounds, 2004, 24, 83-89.	2.6	32
82	Partitioning of π -electrons in Rings of Polycyclic Conjugated Hydrocarbons. Part 4. Benzenoids with More Than One Geometric Kekul� Structure Corresponding to the Same Algebraic Kekul� Structure. Journal of Mathematical Chemistry, 2004, 36, 271-279.	1.5	30
83	QSAR study using topological indices for inhibition of carbonic anhydrase II by sulfanilamides and Schiff bases. Molecular Diversity, 2004, 8, 401-412.	3.9	26
84	Partitioning of π -Electrons in Rings of Polycyclic Benzenoid Hydrocarbons. Part 2. Catacondensed Coronoids.. ChemInform, 2004, 35, no.	0.0	0
85	Aromaticity as a Cornerstone of Heterocyclic Chemistry. ChemInform, 2004, 35, no.	0.0	0
86	Partitioning of π -Electrons in Rings of Polycyclic Conjugated Hydrocarbons. Part 5. Nonalternant Compounds.. ChemInform, 2004, 35, no.	0.0	0
87	Unique graphical representation of protein sequences based on nucleotide triplet codons. Chemical Physics Letters, 2004, 397, 247-252.	2.6	97
88	PARTITIONING OF π -ELECTRONS IN RINGS OF POLYCYCLIC conjugated HYDROCARBONS. PART 1: CATACONDENSED BENZENOIDS. Polycyclic Aromatic Compounds, 2004, 24, 173-193.	2.6	55
89	Simple Synthesis of a Weak Nucleophilic Base (4-Ethyl-2,6-diisopropyl-3,5-dimethylpyridine) Evidencing a Double Janus Group Effect. Journal of Organic Chemistry, 2004, 69, 536-542.	3.2	16
90	Partitioning of π -Electrons in Rings of Polycyclic Conjugated Hydrocarbons. 5. Nonalternant Compounds�. Journal of Chemical Information and Computer Sciences, 2004, 44, 1701-1707.	2.8	47

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91	Partitioning of π -electrons in rings of polycyclic conjugated hydrocarbons. Part 3. Perifusenes. New Journal of Chemistry, 2004, 28, 800-806.	2.8	49
92	Partitioning of π -Electrons in Rings of Polycyclic Benzenoid Hydrocarbons. 2.1 Catacondensed Coronoids. Journal of Chemical Information and Computer Sciences, 2004, 44, 50-59.	2.8	61
93	Pyridinium Cationic Lipids in Gene Delivery: A Structure-Activity Correlation Study. Journal of Medicinal Chemistry, 2004, 47, 3744-3754.	6.4	87
94	Aromaticity as a Cornerstone of Heterocyclic Chemistry. Chemical Reviews, 2004, 104, 2777-2812.	47.7	662
95	A Four-Dimensional Representation of DNA Primary Sequences.. ChemInform, 2003, 34, no.	0.0	1
96	Theoretical Examination of New Forms of Carbon Formed by Intra- or Intermolecular Dehydrogenation of Polycyclic Aromatic Hydrocarbons, Particularly Helicenes. ChemInform, 2003, 34, no.	0.0	0
97	DNA invariants based on nonoverlapping triplets of nucleotide bases. Chemical Physics Letters, 2003, 379, 147-154.	2.6	18
98	Synthesis of 2,4-dimethyl-6-oxo-2,4-heptadienoic acid derivatives from 2,4,6-trimethylpyrylium salts. Tetrahedron, 2003, 59, 3291-3295.	1.9	6
99	On a Four-Dimensional Representation of DNA Primary Sequences [J.Chem. Inf. Comput. Sci.43, 532-539 (2003)]. Journal of Chemical Information and Computer Sciences, 2003, 43, 1724-1724.	2.8	1
100	On A Four-Dimensional Representation of DNA Primary Sequences. Journal of Chemical Information and Computer Sciences, 2003, 43, 532-539.	2.8	117
101	Theoretical Examination of New Forms of Carbon Formed by Intra- or Intermolecular Dehydrogenation of Polycyclic Aromatic Hydrocarbons, Particularly Helicenes. Polycyclic Aromatic Compounds, 2003, 23, 277-296.	2.6	2
102	A Comparison Between Various Topological Indices, Particularly Between the Index J and Wiener's Index W. , 2002, , 89-112.		7
103	Applications of Topological Indices in the Property/Bioactivity/Toxicity Prediction of Chemicals. , 2002, , 113-184.		14
104	From Chemical Graphs to 3D Molecular Modeling. , 2002, , 1-24.		2
105	Cationic Lipids in Gene Delivery: Principles, Vector Design and Therapeutical Applications. Current Pharmaceutical Design, 2002, 8, 2441-2473.	1.9	59
106	Applications of Topological Indices in the Property/Bioactivity/Toxicity Prediction of Chemicals. , 2002, , 113-184.		4
107	Scavenging the hydroxyl radical by 2,2-diphenyl-1-picrylhydrazyl. Arkivoc, 2002, 2002, 123-132.	0.5	8
108	A Comparison Between Various Topological Indices, Particularly Between the Index J and Wiener's Index W. , 2002, , 89-112.		0

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109	Wiener Index Extension by Counting Even/Odd Graph Distances. <i>Journal of Chemical Information and Computer Sciences</i> , 2001, 41, 536-549.	2.8	53
110	Prediction of Mutagenicity of Aromatic and Heteroaromatic Amines from Structure: A Hierarchical QSAR Approach. <i>Journal of Chemical Information and Computer Sciences</i> , 2001, 41, 671-678.	2.8	86
111	Serendipitous, one-pot formation of 2,3,7-triphenylcyclopenta[c]pyran from 1,2-diphenylethanedione (AcâAcâbenzilâAcâAcâ) and cyclopentadiene. <i>New Journal of Chemistry</i> , 2001, 25, 1472-1474.	2.8	11
112	Using Protochirons for Three-Dimensional Coding of Certain Chemical Structures. <i>Journal of Chemical Information and Computer Sciences</i> , 2001, 41, 1145-1149.	2.8	11
113	Recent developments in cationic lipid-mediated gene delivery and gene therapy. <i>Expert Opinion on Therapeutic Patents</i> , 2001, 11, 1729-1752.	5.0	34
114	On Structural Interpretation of Several Distance Related Topological Indices. <i>Journal of Chemical Information and Computer Sciences</i> , 2001, 41, 593-601.	2.8	42
115	Reactions of Pyrylium Salts with Nucleophiles. Part 26.1 the Reaction with the Cyanide Anion Revisited. <i>Journal of Chemical Research</i> , 2001, 2001, 170-172.	1.3	8
116	Evaluation in Quantitative StructureâProperty Relationship Models of Structural Descriptors Derived from Information-Theory Operators. <i>Journal of Chemical Information and Computer Sciences</i> , 2000, 40, 631-643.	2.8	33
117	Comparison of Weighting Schemes for Molecular Graph Descriptors: Application in Quantitative StructureâRetention Relationship Models for Alkylphenols in GasâLiquid Chromatography. <i>Journal of Chemical Information and Computer Sciences</i> , 2000, 40, 732-743.	2.8	33
118	Topological Indices: Their Nature and Mutual Relatedness. <i>Journal of Chemical Information and Computer Sciences</i> , 2000, 40, 891-898.	2.8	117
119	Visual Chemistry: Three-Dimensional Perception of Chemical Structures. <i>Journal of Science Education and Technology</i> , 1999, 8, 251-255.	3.9	9
120	Correlation between Structure and Normal Boiling Points of Acyclic Carbonyl Compounds. <i>Journal of Chemical Information and Computer Sciences</i> , 1999, 39, 758-764.	2.8	22
121	Normal Boiling Points of 1,3-Alkanedinitriles: The Highest Increment in a Homologous Series. <i>Journal of Chemical Information and Computer Sciences</i> , 1999, 39, 769-774.	2.8	15
122	Selective (15N) nitration of 2,2-diphenyl-1-(2,4- or 2,6-dinitrophenyl)-hydrazines or -hydrazyls. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 1998, 41, 791-799.	1.0	6
123	Reaction of pyrylium salts with nucleophiles. Part 25. Formation of pyridine-1-oxides, 2-isoxazolines and 1-pyrazoline-1-oxides. <i>Tetrahedron</i> , 1998, 54, 9747-9764.	1.9	18
124	Quantitative structure-property relationship study of normal boiling points for halogen-/ oxygen-/ sulfur-containing organic compounds using the CODESSA program. <i>Tetrahedron</i> , 1998, 54, 9129-9142.	1.9	54
125	SYNTHESIS AND SPECTRAL DATA OF SOME NEW N-NITROSO-N-PHENYLHYDROXYLAMINE (CUPFERRON) DERIVATIVES. <i>Organic Preparations and Procedures International</i> , 1998, 30, 439-446.	1.3	33
126	Design of Topological Indices. Part 10. Parameters Based on Electronegativity and Covalent Radius for the Computation of Molecular Graph Descriptors for Heteroatom-Containing Molecules. <i>Journal of Chemical Information and Computer Sciences</i> , 1998, 38, 395-401.	2.8	69

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127	Algorithm for the Direct Enumeration of Chiral and Achiral Skeletons of a Homosubstituted Derivative of a Monocyclic Cycloalkane with a Large and Factorizable Ring Sizen. Journal of Chemical Information and Computer Sciences, 1998, 38, 1145-1150.	2.8	5
128	Theoretical investigation of carbon nets and molecules. Theoretical and Computational Chemistry, 1998, , 381-404.	0.4	8
129	From Chemical Topology to 3D Geometry. Journal of Chemical Information and Computer Sciences, 1997, 37, 645-650.	2.8	48
130	Generalizations of the Stone-Wales rearrangement for cage compounds, including fullerenes. Computational and Theoretical Chemistry, 1996, 363, 291-301.	1.5	26
131	EPR and Multiple Electron Resonance Spectroscopic Indication of para-Nitration of Aminyl Radicals. Magnetic Resonance in Chemistry, 1996, 34, 197-206.	1.9	6
132	Holes in diamond or carbon nitride lattices. International Journal of Quantum Chemistry, 1996, 60, 1065-1068.	2.0	8
133	Covalently-Bonded "Onion Type" Double Fullerenic Carbon Cages. Fullerenes, Nanotubes, and Carbon Nanostructures, 1996, 4, 467-476.	0.6	3
134	W. R. Hamilton: His Genius, His Circuits, and the IUPAC Nomenclature for Fullerenes. Journal of Chemical Education, 1995, 72, 693.	2.3	10
135	Hydrophobic supramolecular complexes of various cations with 18-crown-6 as the ligand and N-methoxy-picramide as the anion pair in a water/methylene chloride two-phase system: complexes with I^{\pm} -amino acids, their characteristics and conditions for formation. Supramolecular Science, 1995, 2, 37-40.	0.7	5
136	Chemical Graphs: Looking Back and Glimpsing Ahead. Journal of Chemical Information and Computer Sciences, 1995, 35, 339-350.	2.8	78
137	SYNTHESIS AND SPECTRA OF 3-(3,5-DIMETHYL-2-FUROYL)-4-ARYL-5-CARBETHOXY- H^2 -PYRAZOLINES. Heterocyclic Communications, 1994, 1, .	1.2	1
138	Molecular cyclicity and centricity of polycyclic graphs. I. Cyclicity based on resistance distances or reciprocal distances. International Journal of Quantum Chemistry, 1994, 50, 1-20.	2.0	141
139	Conjugated circuit computations on two-dimensional carbon networks. Journal of Chemical Physics, 1994, 101, 5281-5292.	3.0	52
140	Modeling the anticarcinogenic action of retinoids by making use of the OASIS method. 3. Inhibition of the induction of ornithine decarboxylase by arotinoids. Journal of Medicinal Chemistry, 1994, 37, 2300-2307.	6.4	9
141	Correlation between Structure and Normal Boiling Points of Haloalkanes C1-C4 Using Neural Networks. Journal of Chemical Information and Computer Sciences, 1994, 34, 1118-1121.	2.8	56
142	Local versus Global (i.e. Atomic versus Molecular) Numerical Modeling of Molecular Graphs. Journal of Chemical Information and Computer Sciences, 1994, 34, 398-402.	2.8	37
143	Reaction Graphs. , 1994, , 137-180.		16
144	Search for nondegenerate real vertex invariants and derived topological indexes. Journal of Computational Chemistry, 1993, 14, 155-160.	3.3	7

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145	Chemical graphs with degenerate topological indices based on information on distances. Journal of Mathematical Chemistry, 1993, 14, 21-33.	1.5	24
146	Central vertices versus central rings in polycyclic systems. Journal of Mathematical Chemistry, 1993, 14, 287-304.	1.5	9
147	Design of topological indices. Part 4. Reciprocal distance matrix, related local vertex invariants and topological indices. Journal of Mathematical Chemistry, 1993, 12, 309-318.	1.5	243
148	Solved and Unsolved Problems in Chemical Graph Theory. Annals of Discrete Mathematics, 1993, , 109-126.	1.4	13
149	Real number vertex invariants: Regressive distance sums and related topological indexes. Journal of Chemical Information and Computer Sciences, 1993, 33, 421-428.	2.8	23
150	Benzenoids with maximum Kekule structure counts for given numbers of hexagons. Journal of Chemical Information and Computer Sciences, 1993, 33, 429-436.	2.8	15
151	Correlations between chemical structure and normal boiling points of halogenated alkanes C1-C4. Journal of Chemical Information and Computer Sciences, 1992, 32, 233-237.	2.8	48
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