Alexandru T Balaban

List of Publications by Year
in descending order

240 papers	8,010 citations	61857 43 h-index	64668 79 g-index
267 all docs	267 docs citations	267 times ranked	4197 citing authors

#	Article	IF	Citations
1	Highly discriminating distance-based topological index. Chemical Physics Letters, 1982, 89, 399-404.	1.2	935
2	Aromaticity as a Cornerstone of Heterocyclic Chemistry. Chemical Reviews, 2004, 104, 2777-2812.	23.0	662
3	Applications of graph theory in chemistry. Journal of Chemical Information and Computer Sciences, 1985, 25, 334-343.	2.8	305
4	Topological indices for structure-activity correlations. , 1983, , 21-55.		256
5	Design of topological indices. Part 4. Reciprocal distance matrix, related local vertex invariants and topological indices. Journal of Mathematical Chemistry, 1993, 12, 309-318.	0.7	243
6	Chemical graphs. Theoretica Chimica Acta, 1979, 53, 355-375.	0.9	167
7	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.	1.0	141
8	Crocker, Not Armit and Robinson, Begat the Six Aromatic Electrons. Chemical Reviews, 2005, 105, 3436-3447.	23.0	126
9	Topological Indices:â€‰ Their Nature and Mutual Relatedness. Journal of Chemical Information and Computer Sciences, 2000, 40, 891-898.	2.8	117
10	On A Four-Dimensional Representation of DNA Primary Sequences. Journal of Chemical Information and Computer Sciences, 2003, 43, 532-539.	2.8	117
11	3,4-Connected carbon nets: through-space and through-bond interactions in the solid state. Journal of the American Chemical Society, 1987, 109, 6742-6751.	6.6	113
12	Graphical Representation of Proteins. Chemical Reviews, 2011, 111, 790-862.	23.0	104
13	Lipophilic Pyrylium Salts in the Synthesis of Efficient Pyridinium-Based Cationic Lipids, Gemini Surfactants, and Lipophilic Oligomers for Gene Delivery. Journal of Medicinal Chemistry, 2006, 49, 3872-3887.	2.9	101
14	Systematic classification and nomenclature of diamond hydrocarbonsâ€”I. Tetrahedron, 1978, 34, 3599-3609.	1.0	100
15	Unique graphical representation of protein sequences based on nucleotide triplet codons. Chemical Physics Letters, 2004, 397, 247-252.	1.2	97
16	Pyridinium Cationic Lipids in Gene Delivery:Â A Structureâ^'Activity Correlation Study. Journal of Medicinal Chemistry, 2004, 47, 3744-3754.	2.9	87
17	New vertex invariants and topological indices of chemical graphs based on information on distances. Journal of Mathematical Chemistry, 1991, 8, 383-397.	0.7	86
18	Prediction of Mutagenicity of Aromatic and Heteroaromatic Amines from Structure:â€‰ A Hierarchical QSAR Approach. Journal of Chemical Information and Computer Sciences, 2001, 41, 671-678.	2.8	86

#	Article	IF	Citations
19	Using real numbers as vertex invariants for third-generation topological indexes. Journal of Chemical Information and Computer Sciences, 1992, 32, 23-28.	2.8	85
20	Aluminiumchloridâ€Katalysen, XXVII Eine Synthese von Pyryliumsalzen aus SÃurechloriden und Olefinen. Justus Liebigs Annalen Der Chemie, 1959, 625, 74-88.	0.5	84
21	Discovery of Low Nanomolar and Subnanomolar Inhibitors of the Mycobacterial Î²-Carbonic Anhydrases Rv1284 and Rv3273. Journal of Medicinal Chemistry, 2009, 52, 4063-4067.	2.9	82
22	Graph theoretical characterization and computer generation of certain carcinogenic benzenoid hydrocarbons and identification of bay regions. Journal of Computational Chemistry, 1980, 1, 149-157.	1.5	79
23	Chemical Graphs: Looking Back and Glimpsing Ahead. Journal of Chemical Information and Computer Sciences, 1995, 35, 339-350.	2.8	78
24	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.	1.4	72
25	Design of Topological Indices. Part 10. Parameters Based on Electronegativity and Covalent Radius for the Computation of Molecular Graph Descriptors for Heteroatom-Containing Molecules. Journal of Chemical Information and Computer Sciences, 1998, 38, 395-401.	2.8	69
26	Claromatic Carbon Nanostructures. Journal of Physical Chemistry C, 2009, 113, 19123-19133.	1.5	69
27	Partitioning of Ï€-Electrons in Rings of Polycyclic Benzenoid Hydrocarbons. 2.1Catacondensed Coronoids. Journal of Chemical Information and Computer Sciences, 2004, 44, 50-59.	2.8	61
28	Unique description of chemical structures based on hierarchically ordered extended connectivities (HOC procedures). I. Algorithms for finding graph orbits and canonical numbering of atoms. Journal of Computational Chemistry, 1985, 6, 538-551.	1.5	59
29	Cationic Lipids in Gene Delivery: Principles, Vector Design and Therapeutical Applications. Current Pharmaceutical Design, 2002, 8, 2441-2473.	0.9	59
30	Benzo[c] Pyrlium Salts: Syntheses, Reactions, and Physical Properties. Advances in Heterocyclic Chemistry, 1990, 50, 157-254.	0.9	57
31	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
32	PARTITIONING OF Ï€-ELECTRONS IN RINGS OF POLYCYCLIC conjugated HYDROCARBONS. PART 1: CATACONDENSED BENZENOIDS. Polycyclic Aromatic Compounds, 2004, 24, 173-193.	1.4	55
33	Automerization of Naphthalene in the Presence of Aluminum Chloride. Journal of the American Chemical Society, 1967, 89, 1958-1960.	6.6	54
34	Quantitative structure-property relationship study of normal boiling points for halogen-/ oxygen-/ sulfur-containing organic compounds using the CODESSA program. Tetrahedron, 1998, 54, 9129-9142.	1.0	54
35	Wiener Index Extension by Counting Even/Odd Graph Distances. Journal of Chemical Information and Computer Sciences, 2001, 41, 536-549.	2.8	53
36	Conjugatedâ€circuit computations on twoâ€dimensional carbon networks. Journal of Chemical Physics, 1994, 101, 5281-5292.	1.2	52

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37	Four-color map representation of DNA or RNA sequences and their numerical characterization. Chemical Physics Letters, 2005, 407, 205-208.	1.2	52
38	Partitioning of Ï€-electrons in rings of polycyclic conjugated hydrocarbons. Part 3. Perifusenes. New Journal of Chemistry, 2004, 28, 800-806.	1.4	49
39	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
40	Correlations between chemical structure and normal boiling points of acyclic ethers, peroxides, acetals, and their sulfur analogs. Journal of Chemical Information and Computer Sciences, 1992, 32, 237-244.	2.8	48
41	From Chemical Topology to 3D Geometryâ€. Journal of Chemical Information and Computer Sciences, 1997, 37, 645-650.	2.8	48
42	Partitioning of Ï€-Electrons in Rings of Polycyclic Conjugated Hydrocarbons. 5. Nonalternant Compoundsâ€. Journal of Chemical Information and Computer Sciences, 2004, 44, 1701-1707.	2.8	47
43	Graph theory and theoretical chemistry. Computational and Theoretical Chemistry, 1985, 120, 117-142.	1.5	46
44	Partitioning of Ï€-Electrons in Rings for Clar Structures of Benzenoid Hydrocarbons. Journal of Chemical Information and Modeling, 2006, 46, 57-64.	2.5	43
45	On Structural Interpretation of Several Distance Related Topological Indices. Journal of Chemical Information and Computer Sciences, 2001, 41, 593-601.	2.8	42
46	Carbonic Anhydrase Inhibitors. V: Pyrylium Salts in the Synthesis of Isozyme-Specific Inhibitors. Journal of Pharmaceutical Sciences, 1992, 81, 716-719.	1.6	41
47	Ringverengung von Pyryliumsalzen zu Furanderivaten. Chemische Berichte, 1960, 93, 599-602.	0.2	40
48	Partitioning of Ï€ -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.	0.7	40
49	Are Thermodynamic and Kinetic Stabilities Correlated? A Topological Index of Reactivity toward Electrophiles Used as a Criterion of Aromaticity of Polycyclic Benzenoid Hydrocarbons. Journal of Chemical Information and Modeling, 2009, 49, 369-376.	2.5	38
50	Molecular topology. IV. Regressive vertex degrees (new graph invariants) and derived topological indices. Journal of Computational Chemistry, 1991, 12, 527-535.	1.5	37
51	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
52	Iterative procedure for the generalized graph center in polycyclic graphs. Journal of Chemical Information and Computer Sciences, 1989, 29, 91-97.	2.8	36
53	Topological centric coding and nomenclature of polycyclic hydrocarbons. 1. Condensed benzenoid systems (polyhexes, fusenes). Journal of Chemical Information and Computer Sciences, 1981, 21, 223-229.	2.8	35
54	Seven-Membered Heterocyclic Rings. I. Formation of Substituted 4H-1,2-Diazepines from 2,4,6-Triarylpyrylium Salts and Hydrazine.. Acta Chemica Scandinavica, 1969, 23, 3125-3138.	0.7	35

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55	Recent developments in cationic lipid-mediated gene delivery and gene therapy. Expert Opinion on Therapeutic Patents, 2001, 11, 1729-1752.	2.4	34
56	The graph center concept for polycyclic graphs. International Journal of Quantum Chemistry, 1981, 19, 61-82.	1.0	33
57	Carbenium-carbonium structures, H2C+-CH4+, for the ethane dication. Journal of the American Chemical Society, 1982, 104, 3771-3773.	6.6	33
58	The number of alkanes having n carbons and a longest chain of length d: An application of a theorem of Polya. Journal of Chemical Education, 1988, 65, 304.	1.1	33
59	Theoretical studies of aza analogues of platonic hydrocarbons. Computational and Theoretical Chemistry, 1990, 206, 67-75.	1.5	33
60	SYNTHESIS AND SPECTRAL DATA OF SOME NEW N-NITROSO-N-PHENYLHYDROXYLAMINE (CUPFERRON) DERIVATIVES. Organic Preparations and Procedures International, 1998, 30, 439-446.	0.6	33
61	Evaluation in Quantitative Structureâ^'Property Relationship Models of Structural Descriptors Derived from Information-Theory Operators. Journal of Chemical Information and Computer Sciences, 2000, 40, 631-643.	2.8	33
62	Comparison of Weighting Schemes for Molecular Graph Descriptors:â€‰ Application in Quantitative Structureâ^'Retention Relationship Models for Alkylphenols in Gasâ^'Liquid Chromatography. Journal of Chemical Information and Computer Sciences, 2000, 40, 732-743.	2.8	33
63	Is chemistry 'The Central Science'? How are different sciences related? Co-citations, reductionism, emergence, and posets. Scientometrics, 2006, 69, 615-637.	1.6	33
64	Topological indices and their uses: A new approach for the coding of alkanes. Computational and Theoretical Chemistry, 1988, 165, 243-253.	1.5	32
65	Clar Formulas: How to Draw and How not to Draw Formulas of Polycyclic Aromatic Hydrocarbons. Polycyclic Aromatic Compounds, 2004, 24, 83-89.	1.4	32
66	The Eight Classes of Positive-Curvature Graphitic Nanocones. Journal of Chemical Information and Modeling, 2006, 46, 307-320.	2.5	32
67	Reaction of 2,2-Diphenyl-1-picrylhydrazyl with HOâ€¢, O2â€¢â€“, HOâ€“ ,and HOOâ€“ Radicals and Anions. International Journal of Molecular Sciences, 2006, 7, 130-143.	1.8	31
68	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
69	Strain-Free Sextet-Resonant Benzenoids and Their Antisextet Dualists. Journal of Chemical Information and Modeling, 2006, 46, 1563-1579.	2.5	30
70	A REGULARITY FOR CYCLIC CONJUGATION IN ACENAPHYHYLENE, FLUORANTHENE AND THEIR CONGENERS. Polycyclic Aromatic Compounds, 2009, 29, 3-11.	1.4	29
71	Gear effectâ€”10. Tetrahedron, 1983, 39, 4209-4219.	1.0	27
72	Generalizations of the Stone-Wales rearrangement for cage compounds, including fullerenes. Computational and Theoretical Chemistry, 1996, 363, 291-301.	1.5	26

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73	QSAR study using topological indices for inhibition of carbonic anhydrase II by sulfanilamides and Schiff bases. Molecular Diversity, 2004, 8, 401-412.	2.1	26
74	Correlations between Local Aromaticity Indices of Bipartite Conjugated Hydrocarbons. Journal of Physical Chemistry A, 2010, 114, 5870-5877.	1.1	26
75	Defining rules of aromaticity: a unified approach to the HÃ¼ckel, Clar and RandiÄ‡ concepts. Physical Chemistry Chemical Physics, 2011, 13, 3737-3747.	1.3	26
76	Using Clar sextets for two- and three-dimensional aromatic systems. Physical Chemistry Chemical Physics, 2011, 13, 20649.	1.3	25
77	Chemical graphs with degenerate topological indices based on information on distances. Journal of Mathematical Chemistry, 1993, 14, 21-33.	0.7	24
78	CYCLIC CONJUGATION IN FLUORANTHENE AND ITS BENZO-DERIVATIVES. PART 1. CATACONDENSED SYSTEMS. Polycyclic Aromatic Compounds, 2009, 29, 90-102.	1.4	24
79	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
80	Study on supramolecular complexing ability vis-Ã-vis estimation of pKa of substituted sulfonamides: Dominating role of Balaban index (J). Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3966-3973.	1.0	23
81	Correlation between Structure and Normal Boiling Points of Acyclic Carbonyl Compounds. Journal of Chemical Information and Computer Sciences, 1999, 39, 758-764.	2.8	22
82	Can topological indices transmit information on properties but not on structures?. Journal of Computer-Aided Molecular Design, 2005, 19, 651-660.	1.3	22
83	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
84	Local aromaticity and aromatic sextet theory beyond Clar. International Journal of Quantum Chemistry, 2018, 118, e25657.	1.0	22
85	Schemes and transformations in the (CH)2k series: Valence isomers of [8]- and [10]annulene. Journal of Chemical Education, 1984, 61, 766.	1.1	21
86	Unique description of chemical structures based on hierarchically ordered extended connectivities (HOC procedures). V. New topological indices, ordering of graphs, and recognition of graph similarity. Journal of Computational Chemistry, 1984, 5, 629-639.	1.5	21
87	Î”3-Dihydropyrans and tetrahydropyrans by reduction of pyrylium salts with sodium borohydride in acetic acid. Tetrahedron Letters, 1987, 28, 1341-1344.	0.7	21
88	Partitioning of Ï€-Electrons in Rings of Fibonacenes. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2005, 60, 171-176.	0.7	21
89	Four New Topological Indices Based on the Molecular Path Code. Journal of Chemical Information and Modeling, 2007, 47, 716-731.	2.5	21
90	CorrÃ©lation entre possibilitÃ© d'effet laser et force oscillatrice de la transition fluorescente : cas des sels de pyrylium. Canadian Journal of Physics, 1985, 63, 191-194.	0.4	20

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91	Theoretical studies of aza analogues of platonic hydrocarbons.. Computational and Theoretical Chemistry, 1991, 228, 47-60.	1.5	19
92	Patterns of ring current in coronene isomers. Acta Chimica Slovenica, 2010, 57, 507-12.	0.2	19
93	Theoretical studies on aza-analogs of platonic hydrocarbons. Computational and Theoretical Chemistry, 1990, 208, 63-77.	1.5	18
94	Reaction of pyrylium salts with nucleophiles. Part 25. Formation of pyridine-1-oxides, 2-isoxazolines and 1-pyrazoline-1-oxides. Tetrahedron, 1998, 54, 9747-9764.	1.0	18
95	DNA invariants based on nonoverlapping triplets of nucleotide bases. Chemical Physics Letters, 2003, 379, 147-154.	1.2	18
96	Mass spectrometry in structural and stereochemical problemsâ€”CC A study of the fragmentation processes of some pyrilium salts. Organic Mass Spectrometry, 1971, 5, 87-93.	1.3	17
97	Catalytic automerization of phenanthrene. Journal of the American Chemical Society, 1989, 111, 734-735.	6.6	17
98	PARTITIONING OF Ï€-ELECTRONS IN RINGS OF AZA-DERIVATIVES OF POLYCYCLIC BENZENOID HYDROCARBONS. Polycyclic Aromatic Compounds, 2007, 27, 51-63.	1.4	17
99	Reactions of 2,2â€Diphenylâ€1â€picrylhydrazyl (DPPH) with Two Syringylic Phenols or One Aroxide Derivative. European Journal of Organic Chemistry, 2009, 2009, 626-634.	1.2	17
100	IMPROVED SYNTHESIS OF 2,6-DI-t-BUTYL-4-METHYLPYRYLIUM CHLOROSTANNATE AND PERCHLORATE AND OF 2,6-DI-t-BUTYL-4-METHYLPYRIDINE. Organic Preparations and Procedures International, 1977, 9, 125-130.	0.6	16
101	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.	1.7	16
102	Ï€-ELECTRON CONTENTS OF RINGS IN THE DOUBLE-HEXAGONAL-CHAIN HOMOLOGOUS SERIES (PYRENE,) Tj ETQq0 0 0 rgBT /Overlock	1.4	16
103	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. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 2931-2934.	1.0	16
104	Reaction Graphs. , 1994, , 137-180.		16
105	Molecular Descriptors for Natural Diamondoid Hydrocarbons and Quantitative Structure-Property Relationships for Their Chromatographic Data. Open Organic Chemistry Journal, 2007, 1, 13-31.	0.9	16
106	Janus-type isopropyl groups revealed by 1H-NMR spectra of alkylpyridines with lanthanide shift reagents (LSR). Tetrahedron Letters, 1985, 26, 4673-4676.	0.7	15
107	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
108	Normal Boiling Points of 1,Ï‰-Alkanedinitriles:â€‰ The Highest Increment in a Homologous Series. Journal of Chemical Information and Computer Sciences, 1999, 39, 769-774.	2.8	15

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109	Unique description of chemical structures on hierarchically ordered extended connectivities (HOC) Tj ETQq1 1 0.784314 rgBT /Overlo 1985, 6, 552-561.	1.5	14
110	Unique description of chemical structures based on hierarchically ordered extended connectivities (HOC procedures). III. Topological, chemical, and stereochemical coding of molecular structure. Journal of Computational Chemistry, 1985, 6, 562-569.	1.5	14
111	Synthesis of indolizines starting from pyrylium salts. Tetrahedron Letters, 1987, 28, 3145-3146.	0.7	14
112	Applications of Topological Indices in the Property/Bioactivity/Toxicity Prediction of Chemicals. , 2002, , 113-184.		14
113	Ring signatures for benzenoids with up to seven rings, Part 1: Catacondensed systems. International Journal of Quantum Chemistry, 2008, 108, 865-897.	1.0	14
114	Heteroaromatic Boron Compounds. V. On the Synthesis of a Dithienoborepin.. Acta Chemica Scandinavica, 1969, 23, 2927-2930.	0.7	14
115	Factors affecting stability and equilibria of free radicals-XII. Tetrahedron, 1983, 39, 3943-3945.	1.0	13
116	Oxygen-18 isotope effect in carbon-13 nuclear magnetic resonance spectroscopy. 8. Oxygen exchange of 2,4,6-trimethylpyrylium cation. Journal of the American Chemical Society, 1984, 106, 7836-7840.	6.6	13
117	Chemical Graphs. Part 51.¹Enumeration of Nonbranched Catafusenes According to the Numbers of Benzenoid Rings in the Catafusene and in its Longest Linearly Condensed Portion. Polycyclic Aromatic Compounds, 1990, 1, 171-189.	1.4	13
118	Solved and Unsolved Problems in Chemical Graph Theory. Annals of Discrete Mathematics, 1993, , 109-126.	1.4	13
119	Ï€-Electron Partitions, Signatures, and Clar Structures of Selected Benzenoid Hydrocarbons. Journal of Physical Chemistry A, 2008, 112, 4148-4157.	1.1	13
120	Methyl chemical shifts in 1H-NMR spectra of 1-R-2,4,6-trimethylpyridinium salts as simple probes for the existence and magnitude of ring current in group R. Tetrahedron Letters, 1979, 20, 437-440.	0.7	12
121	Nonisomorphic graphs with identical atomic counts of self-returning walks: Isocodal graphs. Journal of Mathematical Chemistry, 1992, 11, 155-167.	0.7	12
122	Ring signatures for benzenoids with up to seven rings, Part 2: Pericondensed systems. International Journal of Quantum Chemistry, 2008, 108, 898-926.	1.0	12
123	COMMENTS ON Ï€-ELECTRON CONJUGATION IN THE FIVE-MEMBERED RING OF BENZO-DERIVATIVES OF CORANNULENE. Polycyclic Aromatic Compounds, 2009, 29, 185-208.	1.4	12
124	Monocyclic Hetarenes with Ï€-Electron Aromatic Sextet. Advances in Heterocyclic Chemistry, 2010, 99, 61-105.	0.9	12
125	Effect of benzo-annelation on cyclic conjugation. Monatshefte FÃ¼r Chemie, 2011, 142, 53-57.	0.9	12
126	TRITIATION OF AROMATICS BY HTO-PROMOTED ALUMINUM CHLORIDE. Canadian Journal of Chemistry, 1963, 41, 2120-2121.	0.6	11

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127	Notizen: Push-Pull Nitrogen Free Radicals from Benzenesulphonanilides or Benzanilides with Donor para-Substituents. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1973, 28, 543-544.	0.3	11
128	Steric origin of isotope effects in nuclear magnetic resonance shifts induced by lanthanide shift reagents; effect of deuteriation of methyl substituted pyridines. Journal of the Chemical Society Chemical Communications, 1976, , 984.	2.0	11
129	Graph-theoretical analysis of the bonding topology in polyhedral organic cations. Tetrahedron, 1980, 36, 1851-1855.	1.0	11
130	Preparation of selectively side-chain deuteriated pyridines via pyrylium salts. Journal of Labelled Compounds and Radiopharmaceuticals, 1981, 18, 1621-1632.	0.5	11
131	PREPARATION OF 2,3,4,6-TETRAMETHYLPYRYLIUM PERCHLORATE AND OF 2,3,4,6-TETRAMETHYLPYRIDINE. Organic Preparations and Procedures International, 1982, 14, 31-38.	0.6	11
132	Factors affecting the stability and equilibria of free radicals. Part 11. 1-Benzoyl-2,2-bis-(3,5-di-t-butylphenyl)hydrazyl and its temperature-dependent electron spin resonance spectrum. Journal of the Chemical Society Perkin Transactions II, 1983, , 591-594.	0.9	11
133	Model mndo calculations for rotamers of Î±-acylnitroxides and of N-nitrosonitroxides. Tetrahedron, 1987, 43, 405-408.	1.0	11
134	2-benzopyrylium salts. XXXVII. Oxygen analogs of reissert compounds : molecular structure and reactions with sodium hydroxide. Tetrahedron, 1988, 44, 6217-6224.	1.0	11
135	Alternating 6-cycles in perfect matchings of graphs representing condensed benzenoid hydrocarbons. Discrete Applied Mathematics, 1988, 19, 5-16.	0.5	11
136	Serendipitous, one-pot formation of 2,3,7-triphenylcyclopenta[c]pyran from 1,2-diphenylethanedione (Ã¢â‚¬Ã“benzilÃ¢â‚¬Â) and cyclopentadiene. New Journal of Chemistry, 2001, 25, 1472-1474.	1.4	11
137	Using Protochirons for Three-Dimensional Coding of Certain Chemical Structures. Journal of Chemical Information and Computer Sciences, 2001, 41, 1145-1149.	2.8	11
138	Synthesis of new radical-cations with 2,2,6,6-tetramethylpiperidine-N-oxyl and pyridinium moieties. Canadian Journal of Chemistry, 1982, 60, 1512-1513.	0.6	10
139	W. R. Hamilton: His Genius, His Circuits, and the IUPAC Nomenclature for Fulleranes. Journal of Chemical Education, 1995, 72, 693.	1.1	10
140	Correlations between various ways of accounting for the distribution of Ï€-electrons in benzenoids. New Journal of Chemistry, 2008, 32, 1071.	1.4	10
141	N-arenesulphonyl-N-(2,2,6,6-tetramethylpiperidyl-1)-aminyls, hydrazyls with no nitrogen-bonded aromatic groups. Tetrahedron Letters, 1973, 14, 1879-1880.	0.7	9
142	Factors affecting the interaction of lanthanide shift reagents with substituted pyridines. Tetrahedron Letters, 1985, 26, 4669-4672.	0.7	9
143	Factors Affecting Stability and Equilibria of Free Radicals, XVII⁺ EPR Evidence for Formation of N-Alkoxypicramides on Oxidation of N-Alkoxy-dinitroanilines. Electronic Structure of Aminyl Radicals. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 1989, 44, 1459-1463.	0.3	9
144	Central vertices versus central rings in polycyclic systems. Journal of Mathematical Chemistry, 1993, 14, 287-304.	0.7	9

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145	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.	2.9	9
146	Visual Chemistry: Three-Dimensional Perception of Chemical Structures. Journal of Science Education and Technology, 1999, 8, 251-255.	2.4	9
147	QSPR for Physical Properties of cata-Condensed Benzenoids Using Two Simple Dualist-Based Descriptors. Journal of Physical Chemistry A, 2007, 111, 2448-2454.	1.1	9
148	Synthesis and electron paramagnetic resonance study of a nitroxide free radical covalently bonded on aminopropyl-silica gel. Applied Surface Science, 2008, 254, 1904-1908.	3.1	9
149	Local aromaticity in benzo- and benzocyclobutadieno-annelated anthracenes. Monatshefte FÃ¼r Chemie, 2011, 142, 797-800.	0.9	9
150	Partitioned-Formula Periodic Tables for Diamond Hydrocarbons (Diamondoids). Journal of Chemical Information and Modeling, 2012, 52, 2856-2863.	2.5	9
151	Two new topological indices based on graph adjacency matrix eigenvalues and eigenvectors. Journal of Mathematical Chemistry, 2019, 57, 1053-1074.	0.7	9
152	Holes in diamond or carbon nitride lattices. International Journal of Quantum Chemistry, 1996, 60, 1065-1068.	1.0	8
153	Theoretical investigation of carbon nets and molecules. Theoretical and Computational Chemistry, 1998, , 381-404.	0.2	8
154	Reactions of Pyrylium Salts with Nucleophiles. Part 26.1 the Reaction with the Cyanide Anion Revisited. Journal of Chemical Research, 2001, 2001, 170-172.	0.6	8
155	Partition of Ï€-electrons between faces of polyhedral carbon aggregates. Journal of Mathematical Chemistry, 2008, 43, 773-779.	0.7	8
156	EFFECT OF HETEROATOMS ON PARTITIONING OF Ï€-ELECTRONS IN RINGS OF CATAFUSENES. Polycyclic Aromatic Compounds, 2008, 28, 85-97.	1.4	8
157	Molecular and crystal structure of a self-assembling pyridinium cationic lipid. Journal of Molecular Structure, 2010, 984, 228-231.	1.8	8
158	Scavenging the hydroxyl radical by 2,2-diphenyl-1-picrylhydrazyl. Arkivoc, 2002, 2002, 123-132.	0.3	8
159	QSPR correlations of half-wave reduction potentials of cata-condensed benzenoid hydrocarbons. Arkivoc, 2007, 2006, 104-119.	0.3	8
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