Ivan Gutman

List of Publications by Year
in descending order

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495 papers	15,304 citations	36691 53 h-index	43601 95 g-index
511 all docs	511 docs citations	511 times ranked	3263 citing authors

#	Article	IF	Citations
1	Mathematical Concepts in Organic Chemistry. , 1986, , .		716
2	Wiener Index of Trees: Theory and Applications. Acta Applicandae Mathematicae, 2001, 66, 211-249.	0.5	710
3	Graph theory and molecular orbitals. 19. Nonparametric resonance energies of arbitrary conjugated systems. Journal of the American Chemical Society, 1977, 99, 1692-1704.	6.6	503
4	A forgotten topological index. Journal of Mathematical Chemistry, 2015, 53, 1184-1190.	0.7	500
5	Degree-Based Topological Indices. Croatica Chemica Acta, 2013, 86, 351-361.	0.1	452
6	Introduction to the Theory of Benzenoid Hydrocarbons. , 1989, , .		391
7	Laplacian energy of a graph. Linear Algebra and Its Applications, 2006, 414, 29-37.	0.4	320
8	Selected properties of the Schultz molecular topological index. Journal of Chemical Information and Computer Sciences, 1994, 34, 1087-1089.	2.8	287
9	The Quasi-Wiener and the Kirchhoff Indices Coincide. Journal of Chemical Information and Computer Sciences, 1996, 36, 982-985.	2.8	239
10	Topological Approach to the Chemistry of Conjugated Molecules. Lecture Notes in Quantum Chemistry II, 1977, , .	0.3	230
11	Wiener Index of Hexagonal Systems. Acta Applicandae Mathematicae, 2002, 72, 247-294.	0.5	222
12	Acyclic systems with extremal Hï¿½ckel ?-electron energy. Theoretica Chimica Acta, 1977, 45, 79-87.	0.9	221
13	The Energy of a Graph: Old and New Results. , 2001, , 196-211.		219
14	Graph Energy. , 2012, , .		203
15	Resistance distance and Laplacian spectrum. Theoretical Chemistry Accounts, 2003, 110, 284-289.	0.5	200
16	A topological index for the total?-electron energy. Theoretica Chimica Acta, 1975, 38, 37-47.	0.9	139
17	The Szeged Index and an Analogy with the Wiener Index. Journal of Chemical Information and Computer Sciences, 1995, 35, 547-550.	2.8	138
18	Graphs with maximum connectivity index. Computational Biology and Chemistry, 2003, 27, 85-90.	1.1	138

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19	Estimating the Estrada index. Linear Algebra and Its Applications, 2007, 427, 70-76.	0.4	129
20	Topological Indices Based on the Line Graph of the Molecular Graph. Journal of Chemical Information and Computer Sciences, 1996, 36, 541-543.	2.8	122
21	On structure-sensitivity of degree-based topological indices. Applied Mathematics and Computation, 2013, 219, 8973-8978.	1.4	121
22	Variable Neighborhood Search for Extremal Graphs. 2. Finding Graphs with Extremal Energy. Journal of Chemical Information and Computer Sciences, 1999, 39, 984-996.	2.8	114
23	Labeling of Benzenoid Systems which Reflects the Vertex-Distance Relations. Journal of Chemical Information and Computer Sciences, 1995, 35, 590-593.	2.8	103
24	Variable neighborhood search for extremal graphs. Computers & Chemistry, 1999, 23, 469-477.	1.2	103
25	Testing the quality of molecular structure descriptors. Vertex-degree-based topological indices. Journal of the Serbian Chemical Society, 2013, 78, 805-810.	0.4	101
26	The Szeged and the Wiener index of graphs. Applied Mathematics Letters, 1996, 9, 45-49.	1.5	96
27	Maxima and Minima of the Hosoya Index andÂtheÂMerrifield-Simmons Index. Acta Applicandae Mathematicae, 2010, 112, 323-346.	0.5	94
28	KekulÃ© structures and resonance energies of benzenoid hydrocarbons. Tetrahedron Letters, 1975, 16, 755-758.	0.7	92
29	Wiener number of vertex-weighted graphs and a chemical application. Discrete Applied Mathematics, 1997, 80, 73-81.	0.5	92
30	On the maximum ABC index of graphs without pendent vertices. Applied Mathematics and Computation, 2017, 315, 298-312.	1.4	92
31	Topology and stability of conjugated hydrocarbons: The dependence of total Ï€-electron energy on molecular topology. Journal of the Serbian Chemical Society, 2005, 70, 441-456.	0.4	92
32	Graph-theoretical analysis of the clar's aromatic sextet. Tetrahedron, 1981, 37, 1113-1122.	1.0	89
33	On the sum of all distances in composite graphs. Discrete Mathematics, 1994, 135, 359-365.	0.4	87
34	On the nullity of line graphs of trees. Discrete Mathematics, 2001, 232, 35-45.	0.4	84
35	On atom-bond connectivity index. Chemical Physics Letters, 2011, 511, 452-454.	1.2	83
36	On a class of distance-based molecular structure descriptors. Chemical Physics Letters, 2011, 503, 336-338.	1.2	83

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37	On difference of Zagreb indices. Discrete Applied Mathematics, 2014, 178, 83-88.	0.5	82
38	Algebraic characterization of skeletal branching. Chemical Physics Letters, 1977, 47, 15-19.	1.2	79
39	Generalized inverse of the Laplacian matrix and some applications. Academie Serbe Des Sciences Et Des Arts Classe Des Sciences Mathematiques Et Naturelles Bulletin S, 2004, 129, 15-23.	0.3	79
40	Trees with maximum nullity. Linear Algebra and Its Applications, 2005, 397, 245-251.	0.4	79
41	A Comparison of the Schultz Molecular Topological Index with the Wiener Index. Journal of Chemical Information and Computer Sciences, 1996, 36, 1001-1003.	2.8	75
42	Quantitative approach to hÃ¼ckel rule the relations between the cycles of a molecular graph and the thermodynamic stability of a conjugated molecule. Tetrahedron, 1977, 33, 1809-1812.	1.0	73
43	Cyclic Conjugation Energy Effects in Polycyclic Ï€-Electron Systems. Monatshefte FÃ¼r Chemie, 2005, 136, 1055-1069.	0.9	73
44	Alkanes with small and large RandiÄ‡ connectivity indices. Chemical Physics Letters, 1999, 306, 366-372.	1.2	69
45	On incidence energy of a graph. Linear Algebra and Its Applications, 2009, 431, 1223-1233.	0.4	69
46	Total Ï€-electron energy of benzenoid hydrocarbons. , 1992, , 29-63.		66
47	Relations between Wiener, hyper-Wiener and Zagreb indices. Chemical Physics Letters, 2004, 394, 93-95.	1.2	66
48	On RandiÄ‡ energy. Linear Algebra and Its Applications, 2014, 442, 50-57.	0.4	64
49	Beyond the Zagreb indices. AKCE International Journal of Graphs and Combinatorics, 2020, 17, 74-85.	0.4	63
50	Topological properties of benzenoid systems. Theoretica Chimica Acta, 1977, 45, 309-315.	0.9	60
51	An Algorithm for the Calculation of the Szeged Index of Benzenoid Hydrocarbons. Journal of Chemical Information and Computer Sciences, 1995, 35, 1011-1014.	2.8	60
52	Selection of Station Insulators With Respect to Ice and Snowâ€"Part I: Technical Context and Environmental Exposure. IEEE Transactions on Power Delivery, 2005, 20, 264-270.	2.9	60
53	Bounds for the signless Laplacian energy. Linear Algebra and Its Applications, 2011, 435, 2365-2374.	0.4	59
54	The matching energy of a graph. Discrete Applied Mathematics, 2012, 160, 2177-2187.	0.5	59

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55	RandiÄ‡ index and information. AKCE International Journal of Graphs and Combinatorics, 2018, 15, 307-312.	0.4	59
56	Sombor index of chemical graphs. Applied Mathematics and Computation, 2021, 399, 126018.	1.4	56
57	On the ordering of graphs with respect to their matching numbers. Discrete Applied Mathematics, 1986, 15, 25-33.	0.5	55
58	The edge-Wiener index of a graph. Discrete Mathematics, 2009, 309, 3452-3457.	0.4	55
59	A kernel-based clustering method for gene selection with gene expression data. Journal of Biomedical Informatics, 2016, 62, 12-20.	2.5	55
60	Extremal hexagonal chains. Journal of Mathematical Chemistry, 1993, 12, 197-210.	0.7	54
61	Extension of Edge Connectivity Index. Relationships to Line Graph Indices and QSPR Applications. Journal of Chemical Information and Computer Sciences, 1998, 38, 428-431.	2.8	54
62	A connection between ordinary and Laplacian spectra of bipartite graphs. Linear and Multilinear Algebra, 2008, 56, 305-310.	0.5	54
63	New upper bounds on Zagreb indices. Journal of Mathematical Chemistry, 2009, 46, 514-521.	0.7	52
64	Applications of a theorem by Ky Fan in the theory of graph energy. Linear Algebra and Its Applications, 2010, 432, 2163-2169.	0.4	52
65	On the degree distance of a graph. Discrete Applied Mathematics, 2009, 157, 2773-2777.	0.5	51
66	Extended Wiener indices. A new set of descriptors for quantitative structure-property studies. New Journal of Chemistry, 1998, 22, 819-822.	1.4	50
67	Terminal Wiener index. Journal of Mathematical Chemistry, 2009, 46, 522-531.	0.7	50
68	Energy of line graphs. Linear Algebra and Its Applications, 2010, 433, 1312-1323.	0.4	49
69	Bounds For Total Ï€-Electron Energy. Chemical Physics Letters, 1974, 24, 283-285.	1.2	48
70	On the distribution of Ï€-electrons in large polycyclic aromatic hydrocarbons. Chemical Physics Letters, 2004, 397, 412-416.	1.2	48
71	Improving the McClelland inequality for total Ï€-electron energy. Chemical Physics Letters, 2000, 320, 213-216.	1.2	47
72	Variable Neighborhood Search for Extremal Graphs. 10. Comparison of Irregularity Indices for Chemical Trees. Journal of Chemical Information and Modeling, 2005, 45, 222-230.	2.5	47

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73	Unicyclic graphs with maximal energy. Linear Algebra and Its Applications, 2002, 356, 27-36.	0.4	46
74	Comparative Study of Aromaticity in Tetraoxa[8]circulenes. Journal of Physical Chemistry A, 2012, 116, 9421-9430.	1.1	46
75	Some basic properties of Sombor indices. Open Journal of Discrete Applied Mathematics, 2021, 4, 1-3.	0.7	46
76	Cyclic Conjugation Effects in Cyclacenes. Polycyclic Aromatic Compounds, 1996, 8, 189-202.	1.4	45
77	Spectra and energies of iterated line graphs of regular graphs. Applied Mathematics Letters, 2005, 18, 679-682.	1.5	45
78	Zagreb indices of transformation graphs and total transformation graphs. Applied Mathematics and Computation, 2014, 247, 1156-1160.	1.4	45
79	Total domination and open packing in some chemical graphs. Journal of Mathematical Chemistry, 2018, 56, 1481-1492.	0.7	45
80	A Collective Property of Trees and Chemical Trees. Journal of Chemical Information and Computer Sciences, 1998, 38, 823-826.	2.8	44
81	Relation between hyper-Wiener and Wiener index. Chemical Physics Letters, 2002, 364, 352-356.	1.2	42
82	Effect of a Ring on the Stability of Polycyclic Conjugated Molecules. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1977, 32, 10-12.	0.7	41
83	Trees with Extremal Hyper-Wiener Index:â€‰ Mathematical Basis and Chemical Applications. Journal of Chemical Information and Computer Sciences, 1997, 37, 349-354.	2.8	41
84	A new geometricâ€“arithmetic index. Journal of Mathematical Chemistry, 2010, 47, 477-486.	0.7	41
85	Equienergetic chemical trees. Journal of the Serbian Chemical Society, 2004, 69, 549-554.	0.4	41
86	Degree-based energies of graphs. Linear Algebra and Its Applications, 2018, 554, 185-204.	0.4	40
87	No starlike trees are cospectral. Discrete Mathematics, 2002, 242, 291-295.	0.4	39
88	Total Ï€-electron energy and Laplacian energy: How far the analogy goes?. Journal of the Serbian Chemical Society, 2007, 72, 1343-1350.	0.4	39
89	Relation between second and third geometricâ€“arithmetic indices of trees. Journal of Chemometrics, 2011, 25, 87-91.	0.7	39
90	Wiener numbers of benzenoid hydrocarbons: two theorems. Chemical Physics Letters, 1987, 136, 134-136.	1.2	38

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91	An algorithm for the calculation of the hyper-Wiener index of benzenoid hydrocarbons. Computers & Chemistry, 2000, 24, 229-233.	1.2	37
92	Chirality Codes and Molecular Structure. Journal of Chemical Information and Computer Sciences, 2004, 44, 831-836.	2.8	37
93	On the first geometricâ€“arithmetic index of graphs. Discrete Applied Mathematics, 2011, 159, 2030-2037.	0.5	37
94	The ABC index conundrum. Filomat, 2013, 27, 1075-1083.	0.2	37
95	The energy of a graph and its size dependence. A Monte Carlo approach. Chemical Physics Letters, 1998, 297, 428-432.	1.2	36
96	The high-energy band in the photoelectron spectrum of alkanes and its dependence on molecular structure. Journal of the Serbian Chemical Society, 1999, 64, 673-680.	0.4	36
97	Wiener Numbers of Phenylenes:â€‰ An Exact Result. Journal of Chemical Information and Computer Sciences, 1997, 37, 355-358.	2.8	35
98	On atom-bond connectivity index. Filomat, 2012, 26, 733-738.	0.2	35
99	On the calculation of the acyclic polynomial. Theoretica Chimica Acta, 1978, 48, 279-286.	0.9	34
100	Algebraic KekulÃ© Structures of Benzenoid Hydrocarbonsâ€. Journal of Chemical Information and Computer Sciences, 2004, 44, 296-299.	2.8	34
101	On the Cycle-Dependence of Topological Resonance Energy. Journal of Chemical Information and Modeling, 2007, 47, 776-781.	2.5	34
102	Distance spectra and distance energies of iterated line graphs of regular graphs. Publications De L'Institut Mathematique, 2009, 85, 39-46.	0.3	34
103	The Steiner Wiener index of a graph. Discussiones Mathematicae - Graph Theory, 2016, 36, 455.	0.2	34
104	Comparative analysis of symmetric division deg index as potentially useful molecular descriptor. International Journal of Quantum Chemistry, 2018, 118, e25659.	1.0	34
105	Comparison between Kirchhoff index and the Laplacian-energy-like invariant. Linear Algebra and Its Applications, 2012, 436, 3661-3671.	0.4	33
106	The Multiplicative Version of the Wiener Index. Journal of Chemical Information and Computer Sciences, 2000, 40, 113-116.	2.8	32
107	The energy change of weighted graphs. Linear Algebra and Its Applications, 2011, 435, 2425-2431.	0.4	32
108	On total Ï€-electron energy of benzenoid hydrocarbons. Chemical Physics Letters, 1983, 97, 292-294.	1.2	31

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109	On graphs whose energy exceeds the number of vertices. Linear Algebra and Its Applications, 2008, 429, 2670-2677.	0.4	31
110	Energy of a polynomial and the Coulson integral formula. Journal of Mathematical Chemistry, 2010, 48, 1062-1068.	0.7	31
111	Protein Sequence Comparison Based on Physicochemical Properties and the Position-Feature Energy Matrix. Scientific Reports, 2017, 7, 46237.	1.6	31
112	Graph representation of organic molecules Cayley's plerograms vs. his kenograms. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 857-860.	1.7	30
113	On Walks in Molecular Graphs. Journal of Chemical Information and Computer Sciences, 2001, 41, 739-745.	2.8	30
114	Note on the Coulson integral formula. Journal of Mathematical Chemistry, 2006, 39, 259-266.	0.7	30
115	Energy of a graph is never the square root of an odd integer. Applicable Analysis and Discrete Mathematics, 2008, 2, 118-121.	0.3	30
116	Sombor index: review of extremal results and bounds. Journal of Mathematical Chemistry, 2022, 60, 771-798.	0.7	30
117	The Computer System G R A P H: A Useful Tool in Chemical Graph Theory. Journal of Computational Chemistry, 1986, 7, 640-644.	1.5	29
118	A REGULARITY FOR CYCLIC CONJUGATION IN ACENAPHYHYLENE, FLUORANTHENE AND THEIR CONGENERS. Polycyclic Aromatic Compounds, 2009, 29, 3-11.	1.4	29
119	Linear depedence of total ?-electron energy of benzenoid hydrocarbons on Kekulï¿½ structure count. International Journal of Quantum Chemistry, 1992, 41, 667-672.	1.0	28
120	Remark on the moment expansion of total ?-electron energy. Theoretica Chimica Acta, 1992, 83, 313-318.	0.9	28
121	Wiener-Number-Related Sequences. Journal of Chemical Information and Computer Sciences, 1999, 39, 534-536.	2.8	28
122	Estrada index of cycles and paths. Chemical Physics Letters, 2007, 436, 294-296.	1.2	28
123	More on the Laplacian Estrada index. Applicable Analysis and Discrete Mathematics, 2009, 3, 371-378.	0.3	28
124	Lower bounds for Estrada index and Laplacian Estrada index. Applied Mathematics Letters, 2010, 23, 739-742.	1.5	28
125	The nonexistence of topological formula for total ?-electron energy. Theoretica Chimica Acta, 1974, 35, 355-359.	0.9	27
126	Novel inequalities for generalized graph entropies â€“ Graph energies and topological indices. Applied Mathematics and Computation, 2015, 259, 470-479.	1.4	27

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127	Cacti with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml17" display="inline" overflow="scroll" altimg="si17.gif"><mml:mi>n</mml:mi></mml:math>-vertices and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml18" display="inline" overflow="scroll" altimg="si18.gif"><mml:mi>t</mml:mi></mml:math> cycles having extremal Wiener index. Discrete Applied Mathematics, 2017, 232, 189-200.	0.5	27
128	A class of approximate topological formulas for total Ï€â€electron energy. Journal of Chemical Physics, 1977, 66, 1652-1655.	1.2	26
129	Topological studies on heteroconjugated molecules. Theoretica Chimica Acta, 1979, 50, 287-297.	0.9	26
130	McClelland-type lower bound for total Ï€-electron energy. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 3373-3375.	1.7	26
131	Response reactions in chemical thermodynamics. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 3525-3532.	1.7	26
132	Algebraic Connections between Topological Indices. Journal of Chemical Information and Computer Sciences, 1998, 38, 62-65.	2.8	26
133	Estrada index and Chebyshev polynomials. Chemical Physics Letters, 2008, 454, 145-147.	1.2	26
134	On two types of geometricâ€“arithmetic index. Chemical Physics Letters, 2009, 482, 153-155.	1.2	26
135	Correlations between Local Aromaticity Indices of Bipartite Conjugated Hydrocarbons. Journal of Physical Chemistry A, 2010, 114, 5870-5877.	1.1	26
136	Wiener numbers of random benzenoid chains. Chemical Physics Letters, 1990, 173, 403-408.	1.2	25
137	Lower bounds for Estrada Index. Publications De L'Institut Mathematique, 2008, 83, 1-7.	0.3	25
138	Computer search for trees with minimal ABC index. Applied Mathematics and Computation, 2012, 219, 767-772.	1.4	25
139	Wiener index of Eulerian graphs. Discrete Applied Mathematics, 2014, 162, 247-250.	0.5	25
140	On spectral radius and energy of complete multipartite graphs. Ars Mathematica Contemporanea, 2015, 9, 109-113.	0.3	25
141	Easy method for the calculation of the algebraic structure count of phenylenes. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 2413.	1.7	24
142	Cyclic Conjugation in Benzo-Annelated Perylenes. How Empty is the â€œEmptyâ€•Ring?. Monatshefte FÃ¼r Chemie, 2004, 135, 1389-1394.	0.9	24
143	Chemical Graph Theoryâ€”The Mathematical Connection. Advances in Quantum Chemistry, 2006, 51, 125-138.	0.4	24
144	NOTE ON THE Y-RULE IN CLAR THEORY. Polycyclic Aromatic Compounds, 2007, 27, 41-49.	1.4	24

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145	CYCLIC CONJUGATION IN FLUORANTHENE AND ITS BENZO-DERIVATIVES. PART 1. CATACONDENSED SYSTEMS. Polycyclic Aromatic Compounds, 2009, 29, 90-102.	1.4	24
146	On the application of line graphs in quantitative structure-property studies. Journal of the Serbian Chemical Society, 2000, 65, 577-580.	0.4	24
147	Triplet fluoranthenes: Aromaticity versus unpaired electrons. Journal of Molecular Modeling, 2011, 17, 805-810.	0.8	23
148	Choosing the exponent in the definition of the connectivity index. Journal of the Serbian Chemical Society, 2001, 66, 605-611.	0.4	23
149	Multicenter Wiener indices and their applications. Journal of the Serbian Chemical Society, 2015, 80, 1009-1017.	0.4	23
150	Quest for Molecular Graphs with Maximal Energy:â€‰ A Computer Experiment. Journal of Chemical Information and Computer Sciences, 2001, 41, 1002-1005.	2.8	22
151	The Relation between the Eigenvalue Sum and the Topological IndexZRevisited. Bulletin of the Chemical Society of Japan, 2002, 75, 1723-1727.	2.0	22
152	The number of walks in a graph. Applied Mathematics Letters, 2003, 16, 797-801.	1.5	22
153	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
154	Predicting the Classification of Transcription Factors by Incorporating their Binding Site Properties into a Novel Mode of Chou's Pseudo Amino Acid Composition. Protein and Peptide Letters, 2012, 19, 1170-1176.	0.4	22
155	Some properties of the Narumiâ€“Katayama index. Applied Mathematics Letters, 2012, 25, 1435-1438.	1.5	22
156	Relations between distanceâ€“based and degreeâ€“based topological indices. Applied Mathematics and Computation, 2015, 270, 142-147.	1.4	22
157	General sum-connectivity index, general product-connectivity index, general Zagreb index and coindices of line graph of subdivision graphs. AKCE International Journal of Graphs and Combinatorics, 2017, 14, 92-100.	0.4	22
158	Graphs with maximal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml8" display="inline" overflow="scroll" altimg="si4.gif"><mml:mi>Ïƒ</mml:mi></mml:math> irregularity. Discrete Applied Mathematics, 2018, 250, 57-64.	0.5	22
159	Topological Index as Applied to Ï€-Electronic Systems. IV. On the Topological Factors Causing Non-Uniform Ï€-Electron Charge Distribution in Non-Alternant Hydrocarbons. Bulletin of the Chemical Society of Japan, 1976, 49, 1811-1816.	2.0	21
160	Bounds for total Ï€-electron energy of polymethines. Chemical Physics Letters, 1977, 50, 488-490.	1.2	21
161	Revisiting a simple regularity for benzenoid hydrocarbons. Total Ï€-electron energy versus the number of KekulÃ© structures. Chemical Physics Letters, 1995, 234, 21-24.	1.2	21
162	A Topological Index Based on Distances of Edges of Molecular Graphs. Journal of Chemical Information and Computer Sciences, 1996, 36, 850-853.	2.8	21

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163	Modeling Boiling Points of Cycloalkanes by Means of Iterated Line Graph Sequences. Journal of Chemical Information and Computer Sciences, 2001, 41, 1041-1045.	2.8	21
164	Clar number of catacondensed benzenoid hydrocarbons. Computational and Theoretical Chemistry, 2002, 586, 235-240.	1.5	21
165	Partitioning of Ï€-Electrons in Rings of Fibonacenes. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2005, 60, 171-176.	0.7	21
166	On Wiener and multiplicative Wiener indices of graphs. Discrete Applied Mathematics, 2016, 206, 9-14.	0.5	21
167	On Sombor index of trees. Applied Mathematics and Computation, 2022, 412, 126575.	1.4	21
168	Hyper-Wiener Index vs. Wiener Index. Two Highly Correlated Structure-Descriptors. Monatshefte FÃ¼r Chemie, 2003, 134, 975-981.	0.9	20
169	Chemical applications of the Laplacian spectrum. VI On the largest Laplacian eigenvalue of alkanes. Journal of the Serbian Chemical Society, 2002, 67, 407-413.	0.4	20
170	Effect of cycles on total Ï€-electron energy of alternant conjugated hydrocarbons. Journal of the Chemical Society, Faraday Transactions 2, 1979, 75, 799-805.	1.1	19
171	On the dependence of the total Ï€-electron energy of a benzenoid hydrocarbon on the number of KekulÃ© structures. Chemical Physics Letters, 1989, 156, 119-121.	1.2	19
172	New approach to sensitivity analysis of multiple equilibria in solutions. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 3245-3252.	1.7	19
173	Response reactions: a way to explain the unusual behaviour of multiple equilibrium systems. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 259-267.	1.7	19
174	Molecular Connectivity Indices of Iterated Line Graphs. A New Source of Descriptors for QSPR and QSAR Studies. SAR and QSAR in Environmental Research, 1998, 9, 229-240.	1.0	19
175	Harmonic graphs with small number of cycles. Discrete Mathematics, 2003, 265, 31-44.	0.4	19
176	Diradical character of some fluoranthenes. Journal of the Serbian Chemical Society, 2010, 75, 1241-1249.	0.4	19
177	On resonance theory. Chemical Physics Letters, 1975, 34, 387-391.	1.2	18
178	Conformational Spaces and Absolute Configurations of Chiral Fluorinated Inhalation Anaesthetics. A Theoretical Study. Journal of Organic Chemistry, 1999, 64, 3878-3884.	1.7	18
179	Effect of non-bonding molecular orbitals on total Ï€-electron energy. Chemical Physics Letters, 2004, 383, 171-175.	1.2	18
180	Relating Estrada index with spectral radius. Journal of the Serbian Chemical Society, 2007, 72, 1321-1327.	0.4	18

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181	On Ï€-electron conjugation in the five-membered ring of fluoranthene-type benzenoid hydrocarbons. Journal of the Serbian Chemical Society, 2009, 74, 765-771.	0.4	18
182	Maximum energy trees with two maximum degree vertices. Journal of Mathematical Chemistry, 2009, 45, 962-973.	0.7	18
183	Quantitative study of the PCP effect. Chemical Physics Letters, 2009, 475, 289-292.	1.2	18
184	Upper bound for the energy of strongly connected digraphs. Applicable Analysis and Discrete Mathematics, 2011, 5, 37-45.	0.3	18
185	On spectral radius and energy of extended adjacency matrix of graphs. Applied Mathematics and Computation, 2017, 296, 116-123.	1.4	18
186	The HÃ¼ckel total Ï€-electron energy puzzle. Journal of the Serbian Chemical Society, 2006, 71, 771-783.	0.4	18
187	Topological properties of benzenoid systems. , 1992, , 1-28.		17
188	Effect of Bay Regions on the Total Ï€-Electron Energy of Benzenoid Hydrocarbons. Polycyclic Aromatic Compounds, 1992, 2, 275-282.	1.4	17
189	Coulson function and Hosoya index. Chemical Physics Letters, 2002, 355, 378-382.	1.2	17
190	A stochastic chiral amplification model. Chemical Physics Letters, 2003, 372, 464-468.	1.2	17
191	Dependence of Total Ï€-Electron Energy on the Number of Non-Bonding Molecular Orbitals. Monatshefte FÃ¼r Chemie, 2004, 135, 765-772.	0.9	17
192	Extending and modifying the Hall rule. Chemical Physics Letters, 2006, 423, 382-385.	1.2	17
193	PARTITIONING OF Ï€-ELECTRONS IN RINGS OF AZA-DERIVATIVES OF POLYCYCLIC BENZENOID HYDROCARBONS. Polycyclic Aromatic Compounds, 2007, 27, 51-63.	1.4	17
194	Fusenes and benzenoids with perfect matchings. Journal of Mathematical Chemistry, 2007, 42, 909-924.	0.7	17
195	Generalizing the McClelland Bounds for Total Ï€-Electron Energy. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 280-282.	0.7	17
196	Bounds for all graph energies. Chemical Physics Letters, 2012, 528, 72-74.	1.2	17
197	On Laplacian energy in terms of graph invariants. Applied Mathematics and Computation, 2015, 268, 83-92.	1.4	17
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