# Ivan Gutman

List of Publications by Year
in descending order



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|---|---|---|---|
| 498 papers | 15,304 citations | 31976 53 h-index | 38395 95 g-index |
| 511 all docs | 511 docs citations | 511 times ranked | 2914 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. | 1.0 | 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. | 13.7 | 503 |
| 4 | A forgotten topological index. Journal of Mathematical Chemistry, 2015, 53, 1184-1190. | 1.5 | 500 |
| 5 | Degree-Based Topological Indices. Croatica Chemica Acta, 2013, 86, 351-361. | 0.4 | 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. | 0.9 | 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. | 1.0 | 222 |
| 12 | Acyclic systems with extremal Hï¿½ckel ?-electron energy. Theoretica Chimica Acta, 1977, 45, 79-87. | 0.8 | 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. | 1.4 | 200 |
| 16 | A topological index for the total?-electron energy. Theoretica Chimica Acta, 1975, 38, 37-47. | 0.8 | 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. | 2.3 | 138 |

| # | Article | IF | Citations |
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| 19 | Estimating the Estrada index. Linear Algebra and Its Applications, 2007, 427, 70-76. | 0.9 | 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. | 2.2 | 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. | 0.8 | 101 |
| 26 | The Szeged and the Wiener index of graphs. Applied Mathematics Letters, 1996, 9, 45-49. | 2.7 | 96 |
| 27 | Maxima and Minima of the Hosoya Index andÂtheÂMerrifield-Simmons Index. Acta Applicandae Mathematicae, 2010, 112, 323-346. | 1.0 | 94 |
| 28 | KekulÃ© structures and resonance energies of benzenoid hydrocarbons. Tetrahedron Letters, 1975, 16, 755-758. | 1.4 | 92 |
| 29 | Wiener number of vertex-weighted graphs and a chemical application. Discrete Applied Mathematics, 1997, 80, 73-81. | 0.9 | 92 |
| 30 | On the maximum ABC index of graphs without pendent vertices. Applied Mathematics and Computation, 2017, 315, 298-312. | 2.2 | 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. | 0.8 | 92 |
| 32 | Graph-theoretical analysis of the clar's aromatic sextet. Tetrahedron, 1981, 37, 1113-1122. | 1.9 | 89 |
| 33 | On the sum of all distances in composite graphs. Discrete Mathematics, 1994, 135, 359-365. | 0.7 | 87 |
| 34 | On the nullity of line graphs of trees. Discrete Mathematics, 2001, 232, 35-45. | 0.7 | 84 |
| 35 | On atom-bond connectivity index. Chemical Physics Letters, 2011, 511, 452-454. | 2.6 | 83 |
| 36 | On a class of distance-based molecular structure descriptors. Chemical Physics Letters, 2011, 503, 336-338. | 2.6 | 83 |

| # | Article | IF | Citations |
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| 37 | On difference of Zagreb indices. Discrete Applied Mathematics, 2014, 178, 83-88. | 0.9 | 82 |
| 38 | Algebraic characterization of skeletal branching. Chemical Physics Letters, 1977, 47, 15-19. | 2.6 | 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. | 0.9 | 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. | 1.9 | 73 |
| 43 | Cyclic Conjugation Energy Effects in Polycyclic Ï€-Electron Systems. Monatshefte FÃ¼r Chemie, 2005, 136, 1055-1069. | 1.8 | 73 |
| 44 | Alkanes with small and large RandiÄ‡ connectivity indices. Chemical Physics Letters, 1999, 306, 366-372. | 2.6 | 69 |
| 45 | On incidence energy of a graph. Linear Algebra and Its Applications, 2009, 431, 1223-1233. | 0.9 | 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. | 2.6 | 66 |
| 48 | On RandiÄ‡ energy. Linear Algebra and Its Applications, 2014, 442, 50-57. | 0.9 | 64 |
| 49 | Beyond the Zagreb indices. AKCE International Journal of Graphs and Combinatorics, 2020, 17, 74-85. | 0.7 | 63 |
| 50 | Topological properties of benzenoid systems. Theoretica Chimica Acta, 1977, 45, 309-315. | 0.8 | 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. | 4.3 | 60 |
| 53 | Bounds for the signless Laplacian energy. Linear Algebra and Its Applications, 2011, 435, 2365-2374. | 0.9 | 59 |
| 54 | The matching energy of a graph. Discrete Applied Mathematics, 2012, 160, 2177-2187. | 0.9 | 59 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | RandiÄ‡ index and information. AKCE International Journal of Graphs and Combinatorics, 2018, 15, 307-312. | 0.7 | 59 |
| 56 | Sombor index of chemical graphs. Applied Mathematics and Computation, 2021, 399, 126018. | 2.2 | 56 |
| 57 | On the ordering of graphs with respect to their matching numbers. Discrete Applied Mathematics, 1986, 15, 25-33. | 0.9 | 55 |
| 58 | The edge-Wiener index of a graph. Discrete Mathematics, 2009, 309, 3452-3457. | 0.7 | 55 |
| 59 | A kernel-based clustering method for gene selection with gene expression data. Journal of Biomedical Informatics, 2016, 62, 12-20. | 4.3 | 55 |
| 60 | Extremal hexagonal chains. Journal of Mathematical Chemistry, 1993, 12, 197-210. | 1.5 | 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. | 1.0 | 54 |
| 63 | New upper bounds on Zagreb indices. Journal of Mathematical Chemistry, 2009, 46, 514-521. | 1.5 | 52 |
| 64 | Applications of a theorem by Ky Fan in the theory of graph energy. Linear Algebra and Its Applications, 2010, 432, 2163-2169. | 0.9 | 52 |
| 65 | On the degree distance of a graph. Discrete Applied Mathematics, 2009, 157, 2773-2777. | 0.9 | 51 |
| 66 | Extended Wiener indices. A new set of descriptors for quantitative structure-property studies. New Journal of Chemistry, 1998, 22, 819-822. | 2.8 | 50 |
| 67 | Terminal Wiener index. Journal of Mathematical Chemistry, 2009, 46, 522-531. | 1.5 | 50 |
| 68 | Energy of line graphs. Linear Algebra and Its Applications, 2010, 433, 1312-1323. | 0.9 | 49 |
| 69 | Bounds For Total Ï€-Electron Energy. Chemical Physics Letters, 1974, 24, 283-285. | 2.6 | 48 |
| 70 | On the distribution of Ï€-electrons in large polycyclic aromatic hydrocarbons. Chemical Physics Letters, 2004, 397, 412-416. | 2.6 | 48 |
| 71 | Improving the McClelland inequality for total Ï€-electron energy. Chemical Physics Letters, 2000, 320, 213-216. | 2.6 | 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. | 5.4 | 47 |

| # | Article | IF | Citations |
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| 73 | Unicyclic graphs with maximal energy. Linear Algebra and Its Applications, 2002, 356, 27-36. | 0.9 | 46 |
| 74 | Comparative Study of Aromaticity in Tetraoxa[8]circulenes. Journal of Physical Chemistry A, 2012, 116, 9421-9430. | 2.5 | 46 |
| 75 | Some basic properties of Sombor indices. Open Journal of Discrete Applied Mathematics, 2021, 4, 1-3. | 1.1 | 46 |
| 76 | Cyclic Conjugation Effects in Cyclacenes. Polycyclic Aromatic Compounds, 1996, 8, 189-202. | 2.6 | 45 |
| 77 | Spectra and energies of iterated line graphs of regular graphs. Applied Mathematics Letters, 2005, 18, 679-682. | 2.7 | 45 |
| 78 | Zagreb indices of transformation graphs and total transformation graphs. Applied Mathematics and Computation, 2014, 247, 1156-1160. | 2.2 | 45 |
| 79 | Total domination and open packing in some chemical graphs. Journal of Mathematical Chemistry, 2018, 56, 1481-1492. | 1.5 | 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. | 2.6 | 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. | 1.5 | 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. | 1.5 | 41 |
| 85 | Equienergetic chemical trees. Journal of the Serbian Chemical Society, 2004, 69, 549-554. | 0.8 | 41 |
| 86 | Degree-based energies of graphs. Linear Algebra and Its Applications, 2018, 554, 185-204. | 0.9 | 40 |
| 87 | No starlike trees are cospectral. Discrete Mathematics, 2002, 242, 291-295. | 0.7 | 39 |
| 88 | Total Ï€-electron energy and Laplacian energy: How far the analogy goes?. Journal of the Serbian Chemical Society, 2007, 72, 1343-1350. | 0.8 | 39 |
| 89 | Relation between second and third geometricâ€“arithmetic indices of trees. Journal of Chemometrics, 2011, 25, 87-91. | 1.3 | 39 |
| 90 | Wiener numbers of benzenoid hydrocarbons: two theorems. Chemical Physics Letters, 1987, 136, 134-136. | 2.6 | 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. | 0.9 | 37 |
| 94 | The ABC index conundrum. Filomat, 2013, 27, 1075-1083. | 0.5 | 37 |
| 95 | The energy of a graph and its size dependence. A Monte Carlo approach. Chemical Physics Letters, 1998, 297, 428-432. | 2.6 | 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. | 0.8 | 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. | 0.5 | 35 |
| 99 | On the calculation of the acyclic polynomial. Theoretica Chimica Acta, 1978, 48, 279-286. | 0.8 | 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. | 5.4 | 34 |
| 102 | Distance spectra and distance energies of iterated line graphs of regular graphs. Publications De L'Institut Mathematique, 2009, 85, 39-46. | 0.2 | 34 |
| 103 | The Steiner Wiener index of a graph. Discussiones Mathematicae - Graph Theory, 2016, 36, 455. | 0.3 | 34 |
| 104 | Comparative analysis of symmetric division deg index as potentially useful molecular descriptor. International Journal of Quantum Chemistry, 2018, 118, e25659. | 2.0 | 34 |
| 105 | Comparison between Kirchhoff index and the Laplacian-energy-like invariant. Linear Algebra and Its Applications, 2012, 436, 3661-3671. | 0.9 | 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. | 0.9 | 32 |
| 108 | On total Ï€-electron energy of benzenoid hydrocarbons. Chemical Physics Letters, 1983, 97, 292-294. | 2.6 | 31 |

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| 109 | On graphs whose energy exceeds the number of vertices. Linear Algebra and Its Applications, 2008, 429, 2670-2677. | 0.9 | 31 |
| 110 | Energy of a polynomial and the Coulson integral formula. Journal of Mathematical Chemistry, 2010, 48, 1062-1068. | 1.5 | 31 |
| 111 | Protein Sequence Comparison Based on Physicochemical Properties and the Position-Feature Energy Matrix. Scientific Reports, 2017, 7, 46237. | 3.3 | 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. | 1.5 | 30 |
| 115 | Energy of a graph is never the square root of an odd integer. Applicable Analysis and Discrete Mathematics, 2008, 2, 118-121. | 0.7 | 30 |
| 116 | Sombor index: review of extremal results and bounds. Journal of Mathematical Chemistry, 2022, 60, 771-798. | 1.5 | 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. | 3.3 | 29 |
| 118 | A REGULARITY FOR CYCLIC CONJUGATION IN ACENAPHYHYLENE, FLUORANTHENE AND THEIR CONGENERS. Polycyclic Aromatic Compounds, 2009, 29, 3-11. | 2.6 | 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. | 2.0 | 28 |
| 120 | Remark on the moment expansion of total ?-electron energy. Theoretica Chimica Acta, 1992, 83, 313-318. | 0.8 | 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. | 2.6 | 28 |
| 123 | More on the Laplacian Estrada index. Applicable Analysis and Discrete Mathematics, 2009, 3, 371-378. | 0.7 | 28 |
| 124 | Lower bounds for Estrada index and Laplacian Estrada index. Applied Mathematics Letters, 2010, 23, 739-742. | 2.7 | 28 |
| 125 | The nonexistence of topological formula for total ?-electron energy. Theoretica Chimica Acta, 1974, 35, 355-359. | 0.8 | 27 |
| 126 | Novel inequalities for generalized graph entropies â€“ Graph energies and topological indices. Applied Mathematics and Computation, 2015, 259, 470-479. | 2.2 | 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. | 0.9 | 27 |
| 128 | A class of approximate topological formulas for total Ï€â€electron energy. Journal of Chemical Physics, 1977, 66, 1652-1655. | 3.0 | 26 |
| 129 | Topological studies on heteroconjugated molecules. Theoretica Chimica Acta, 1979, 50, 287-297. | 0.8 | 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. | 2.6 | 26 |
| 134 | On two types of geometricâ€“arithmetic index. Chemical Physics Letters, 2009, 482, 153-155. | 2.6 | 26 |
| 135 | Correlations between Local Aromaticity Indices of Bipartite Conjugated Hydrocarbons. Journal of Physical Chemistry A, 2010, 114, 5870-5877. | 2.5 | 26 |
| 136 | Wiener numbers of random benzenoid chains. Chemical Physics Letters, 1990, 173, 403-408. | 2.6 | 25 |
| 137 | Lower bounds for Estrada Index. Publications De L'Institut Mathematique, 2008, 83, 1-7. | 0.2 | 25 |
| 138 | Computer search for trees with minimal ABC index. Applied Mathematics and Computation, 2012, 219, 767-772. | 2.2 | 25 |
| 139 | Wiener index of Eulerian graphs. Discrete Applied Mathematics, 2014, 162, 247-250. | 0.9 | 25 |
| 140 | On spectral radius and energy of complete multipartite graphs. Ars Mathematica Contemporanea, 2015, 9, 109-113. | 0.6 | 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. | 1.8 | 24 |
| 143 | Chemical Graph Theoryâ€”The Mathematical Connection. Advances in Quantum Chemistry, 2006, 51, 125-138. | 0.8 | 24 |
| 144 | NOTE ON THE Y-RULE IN CLAR THEORY. Polycyclic Aromatic Compounds, 2007, 27, 41-49. | 2.6 | 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. | 2.6 | 24 |
| 146 | On the application of line graphs in quantitative structure-property studies. Journal of the Serbian Chemical Society, 2000, 65, 577-580. | 0.8 | 24 |
| 147 | Triplet fluoranthenes: Aromaticity versus unpaired electrons. Journal of Molecular Modeling, 2011, 17, 805-810. | 1.8 | 23 |
| 148 | Choosing the exponent in the definition of the connectivity index. Journal of the Serbian Chemical Society, 2001, 66, 605-611. | 0.8 | 23 |
| 149 | Multicenter Wiener indices and their applications. Journal of the Serbian Chemical Society, 2015, 80, 1009-1017. | 0.8 | 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. | 3.2 | 22 |
| 152 | The number of walks in a graph. Applied Mathematics Letters, 2003, 16, 797-801. | 2.7 | 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. | 2.6 | 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. | 0.9 | 22 |
| 155 | Some properties of the Narumiâ€“Katayama index. Applied Mathematics Letters, 2012, 25, 1435-1438. | 2.7 | 22 |
| 156 | Relations between distanceâ€“based and degreeâ€“based topological indices. Applied Mathematics and Computation, 2015, 270, 142-147. | 2.2 | 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. | 0.7 | 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. | 0.9 | 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. | 3.2 | 21 |
| 160 | Bounds for total Ï€-electron energy of polymethines. Chemical Physics Letters, 1977, 50, 488-490. | 2.6 | 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. | 2.6 | 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. | 1.5 | 21 |
| 166 | On Wiener and multiplicative Wiener indices of graphs. Discrete Applied Mathematics, 2016, 206, 9-14. | 0.9 | 21 |
| 167 | On Sombor index of trees. Applied Mathematics and Computation, 2022, 412, 126575. | 2.2 | 21 |
| 168 | Hyper-Wiener Index vs. Wiener Index. Two Highly Correlated Structure-Descriptors. Monatshefte FÃ¼r Chemie, 2003, 134, 975-981. | 1.8 | 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. | 0.8 | 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. | 2.6 | 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. | 2.2 | 19 |
| 175 | Harmonic graphs with small number of cycles. Discrete Mathematics, 2003, 265, 31-44. | 0.7 | 19 |
| 176 | Diradical character of some fluoranthenes. Journal of the Serbian Chemical Society, 2010, 75, 1241-1249. | 0.8 | 19 |
| 177 | On resonance theory. Chemical Physics Letters, 1975, 34, 387-391. | 2.6 | 18 |
| 178 | Conformational Spaces and Absolute Configurations of Chiral Fluorinated Inhalation Anaesthetics. A Theoretical Study. Journal of Organic Chemistry, 1999, 64, 3878-3884. | 3.2 | 18 |
| 179 | Effect of non-bonding molecular orbitals on total Ï€-electron energy. Chemical Physics Letters, 2004, 383, 171-175. | 2.6 | 18 |
| 180 | Relating Estrada index with spectral radius. Journal of the Serbian Chemical Society, 2007, 72, 1321-1327. | 0.8 | 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. | 0.8 | 18 |
| 182 | Maximum energy trees with two maximum degree vertices. Journal of Mathematical Chemistry, 2009, 45, 962-973. | 1.5 | 18 |
| 183 | Quantitative study of the PCP effect. Chemical Physics Letters, 2009, 475, 289-292. | 2.6 | 18 |
| 184 | Upper bound for the energy of strongly connected digraphs. Applicable Analysis and Discrete Mathematics, 2011, 5, 37-45. | 0.7 | 18 |
| 185 | On spectral radius and energy of extended adjacency matrix of graphs. Applied Mathematics and Computation, 2017, 296, 116-123. | 2.2 | 18 |
| 186 | The HÃ¼ckel total Ï€-electron energy puzzle. Journal of the Serbian Chemical Society, 2006, 71, 771-783. | 0.8 | 18 |
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