

Scientific Papers of Ivan Gutman
(751 — 1000)

1000. X. Li, X. Yao, J. Zhang, I. Gutman (17 XII 2007)
Maximum energy trees with two maximum degree vertices
Journal of Mathematical Chemistry **45** (2009) 962–973.
999. S. Stanković, J. Đurđević, I. Gutman, R. Milentijević (17 XII 2007)
Partitioning of π -electrons in rings of diaza-derivatives of acenes
Journal of the Serbian Chemical Society **73** (2008) 547–554.
998. B. Furtula, S. Radenković, I. Gutman (5 XII 2007)
Bicyclic molecular graphs with greatest energy
Journal of the Serbian Chemical Society **73** (2008) 431–433.
997. H. S. Ramane, I. Gutman, D. S. Revankar (2 XII 2007)
Distance equienergetic graphs
MATCH Communications in Mathematical and in Computer Chemistry **60**
(2008) 473–484.
996. G. Indulal, I. Gutman (26 XI 2007)
On the distance spectra of some graphs
Mathematical Communications (Osijek) **13** (2008) 123–131.
995. J. Liu, B. Liu, S. Radenković, I. Gutman (30 X 2007)
Minimal LEL-equienergetic graphs
MATCH Communications in Mathematical and in Computer Chemistry **61**
(2009) 471–478.
994. I. Gutman (30 X 2007)
Linearly annelated coronenes with greatest Kekulé structure count
Kragujevac Journal of Science **30** (2008) 51–56.
993. I. Gutman, G. Indulal, R. Todeschini (29 X 2007)
Generalizing the McClelland bounds for total π -electron energy
Zeitschrift für Naturforschung **63a** (2008) 280–282.
992. G. H. Fath-Tabar, A. R. Ashrafi, I. Gutman (26 X 2007)
Note on Laplacian energy of graphs
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **137** (2008) 1–10.
991. I. Gutman, X. Li, Y. Shi, J. Zhang (23 X 2007)
Hypoenergetic trees
MATCH Communications in Mathematical and in Computer Chemistry **60**
(2008) 415–426.
990. H. S. Ramane, D. S. Revankar, I. Gutman, S. B. Rao, B. D. Acharya, H. B. Walikar (20 X 2007)
Estimating the distance energy of graphs
Graph Theory Notes of New York **55** (2008) 27–32.
989. I. Gutman, S. Stanković (10 X 2007)
Why is phenanthrene more stable than anthracene?
Macedonian Journal of Chemistry and Chemical Engineering **26** (2007) 111–114.
988. S. Pirzada, I. Gutman (6 X 2007)
Energy of a graph is never the square root of an odd integer
Applicable Analysis and Discrete Mathematics **2** (2008) 118–121.

987. B. Furtula, I. Gutman (4 X 2007)
Energy and Estrada index of phenylenes
Indian Journal of Chemistry **47A** (2008) 220–224.
986. S. Radenković, I. Gutman (30 IX 2007)
Relation between Wiener index and spectral radius
Kragujevac Journal of Science **30** (2008) 57–64.
985. H. S. Ramane, D. S. Revankar, I. Gutman, S. B. Rao, B. D. Acharya, H. B. Walikar (17 IX 2007)
Bounds for the distance energy of a graph
Kragujevac Journal of Mathematics **31** (2008) 59–68.
984. I. Gutman, S. Radenković (30 VIII 2007)
Hypoenergetic molecular graphs
Indian Journal of Chemistry **46A** (2007) 1733–1736.
983. G. Indulal, I. Gutman, A. Vijayakumar (25 VIII 2007)
On distance energy of graphs
MATCH Communications in Mathematical and in Computer Chemistry **60** (2008) 461–472.
982. N. M. M. de Abreu, C. T. M. Vinagre, A. S. Bonifácio, I. Gutman (10 VIII 2007)
The Laplacian energy of some Laplacian integral graphs
MATCH Communications in Mathematical and in Computer Chemistry **60** (2008) 447–460.
981. H. Hosoya, I. Gutman (2 VIII 2007)
Kekulé structures of hexagonal chains – some unusual connections
Journal of Mathematical Chemistry **44** (2008) 559–568.
980. A. T. Balaban, I. Gutman, S. Stanković (24 VII 2007)
Effect of heteroatoms on partitioning of π -electrons in rings of catafusenes
Polycyclic Aromatic Compounds **28** (2008) 85–97.
979. S. Radenković, I. Gutman (23 VII 2007)
Total π -electron energy and Laplacian energy: How far the analogy goes?
Journal of the Serbian Chemical Society **72** (2007) 1343–1350.
978. I. Gutman, S. Stanković (12 VII 2007)
Testing the Y-rule in Clar theory
Polycyclic Aromatic Compounds **27** (2007) 425–436.
977. I. Gutman, S. Radenković, N. Li, S. Li (11 VII 2007)
Extremal energy trees
MATCH Communications in Mathematical and in Computer Chemistry **59** (2008) 315–320.
976. I. Gutman (11 VII 2007)
On graphs whose energy exceeds the number of vertices
Linear Algebra and Its Applications **429** (2008) 2670–2677.
975. M. H. Khalifeh, H. Yousefi–Azari, A. R. Ashrafi, I. Gutman (10 VII 2007)
The edge Szeged index of product graphs
Croatica Chemica Acta **81** (2008) 277–281.
974. I. Gutman, S. Radenković, A. Graovac, D. Plavšić (6 VII 2007)
Monte Carlo approach to Estrada index
Chemical Physics Letters **446** (2007) 233–236.
973. I. Gutman, S. Radenković, B. Furtula, T. Mansour, M. Schork (3 VII 2007)
Relating Estrada index with spectral radius
Journal of the Serbian Chemical Society **72** (2007) 1321–1327.

972. H. S. Ramane, H. B. Walikar, I. Gutman (VI 2007)
Equienergetic graphs
Journal of Combinatorial Mathematics and Combinatorial Computing **69**
(2009) 165–173.
971. I. Gutman, N. M. M. de Abreu, C. T. M. Vinagre, A. S. Bonifácio, S. Radenković
(18 VI 2007)
Relation between energy and Laplacian energy
MATCH Communications in Mathematical and in Computer Chemistry **59**
(2008) 343–354.
970. I. Gutman, A. R. Ashrafi (30 V 2007)
The edge version of the Szeged index
Croatica Chemica Acta **81** (2008) 263–266.
969. M. Mateljević, I. Gutman (18 V 2007)
Note on the Coulson and Coulson–Jacobs integral formulas
MATCH Communications in Mathematical and in Computer Chemistry **59**
(2008) 257–268.
968. I. Gutman, A. R. Ashrafi (16 V 2007)
On the PI index of phenylenes and their hexagonal squeezes
MATCH Communications in Mathematical and in Computer Chemistry **60**
(2008) 135–142.
967. I. Gutman, B. Furtula, V. Marković, B. Glišić (10 IV 2007)
Alkanes with greatest Estrada index
Zeitschrift für Naturforschung **62a** (2007) 495–498.
966. I. Gutman, S. Stanković (30 III 2007)
Complete analysis of cyclic conjugation energy effects: Comparison of
benzo[*a*]pyrene and benzo[*b*]pyrene
*Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences
Mathématiques et Naturelles)* **135** (2008) 29–36.
965. I. Gutman (29 III 2007)
The McClelland approximation and the distribution of π -electron molecular
orbital energy levels
Journal of the Serbian Chemical Society **72** (2007) 967–973.
964. T. Aleksić, I. Gutman, M. Petrović (23 III 2007)
Estrada index of iterated line graphs
*Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences
Mathématiques et Naturelles)* **134** (2007) 33–41.
963. H. B. Walikar, H. S. Ramane, I. Gutman, S. B. Halkarni (4 III 2007)
On equienergetic graphs and molecular graphs
Kragujevac Journal of Science **29** (2007) 73–84.
962. I. Gutman (1 III 2007)
An extremal problem in the theory of hexagonal systems
Graph Theory Notes of New York **59** (2007) 26–29.
961. I. Gutman, B. Furtula, H. Hua (21 II 2007)
Bipartite unicyclic graphs with maximal, second-maximal, and third-maximal
energy
MATCH Communications in Mathematical and in Computer Chemistry **58**
(2007) 75–82.
960. I. Gutman (12 I 2007)
Partitioning of π -electrons in rings of aza-derivatives of triphenylene
Macedonian Journal of Chemistry and Chemical Engineering **26** (2007) 25–29.

959. I. Gutman (11 I 2007)
Lower bounds for Estrada index
Publications de l'Institut Mathématique (Beograd) **83** (2008) 1–7.
958. B. Liu, I. Gutman (10 I 2007)
On a conjecture on Randić indices
MATCH Communications in Mathematical and in Computer Chemistry **62** (2009) 143–154.
957. I. Gutman, B. Furtula, B. Glišić, V. Marković, A. Vesel (31 XII 2006)
Estrada index of acyclic molecules
Indian Journal of Chemistry **46A** (2007) 723–728.
956. I. Gutman, A. Graovac (26 XII 2006)
Estrada index of cycles and paths
Chemical Physics Letters **436** (2007) 294–296.
955. I. Gutman, S. Radenković (19 XII 2006)
A lower bound for the Estrada index of bipartite molecular graphs
Kragujevac Journal of Science **29** (2007) 67–72.
954. J. A. de la Peña, I. Gutman, J. Rada (14 XII 2006)
Retarded regular graphs are regular or semiregular
Linear and Multilinear Algebra **56** (2008) 507–509.
953. I. Gutman, S. Radenković (11 XII 2006)
Estrada index of benzenoid hydrocarbons
Zeitschrift für Naturforschung **62a** (2007) 254–258.
952. I. Gutman, S. Stanković, J. Đurđević, B. Furtula (5 XII 2006)
On the cycle-dependence of topological resonance energy
Journal of Chemical Information and Modeling **47** (2007) 776–781.
951. A. T. Balaban, B. Furtula, I. Gutman, R. Kovačević (27 XI 2006)
Partitioning of π -electrons in rings of aza-derivatives of polycyclic benzenoid hydrocarbons
Polycyclic Aromatic Compounds **27** (2007) 51–63.
950. B. Zhou, I. Gutman (24 XI 2006)
Nordhaus–Gaddum-type relations for the energy and Laplacian energy of graphs
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **134** (2007) 1–11.
949. I. Gutman, Y. Ruiz–Morales (24 X 2006)
Note on the Y-rule in Clar theory
Polycyclic Aromatic Compounds **27** (2007) 41–49.
948. S. Gojak, I. Gutman, S. Radenković, A. Vodopivec (23 X 2006)
Relating resonance energy with Zhang–Zhang polynomial
Journal of the Serbian Chemical Society **72** (2007) 673–679.
947. J. A. de la Peña, I. Gutman, J. Rada (9 X 2006)
Estimating the Estrada index
Linear Algebra and Its Applications **427** (2007) 70–76.
946. I. Gutman, S. Zare Firoozabadi, J. A. de la Peña, J. Rada (7 X 2006)
On the energy of regular graphs
MATCH Communications in Mathematical and in Computer Chemistry **57** (2007) 435–442.

945. B. Liu, I. Gutman (26 VIII 2006)
On general Randić indices
MATCH Communications in Mathematical and in Computer Chemistry **58**
(2007) 157–176.
944. I. Gutman, B. Furtula, R. Kovačević (23 VIII 2006)
Partitioning of π -electrons in rings of aza-derivatives of naphthalene
Journal of the Serbian Chemical Society **72** (2007) 663–671.
943. I. Gutman, E. Estrada, J. A. Rodríguez-Velázquez (4 VIII 2006)
On a graph-spectrum-based structure descriptor
Croatica Chemica Acta **80** (2007) 151–154.
942. B. Liu, I. Gutman (28 VII 2006)
Estimating the Zagreb and the general Randić indices
MATCH Communications in Mathematical and in Computer Chemistry **57**
(2007) 617–632.
941. B. Furtula, I. Gutman (13 VII 2006)
Assessing the distribution of π -electrons into rings of phenylenes
Indian Journal of Chemistry **45A** (2006) 1977–1980.
940. L. Clark, I. Gutman (16 VI 2006)
The exponent in the general Randić index
Journal of Mathematical Chemistry **43** (2008) 32–44.
939. I. Gutman (8 VI 2006)
Partitioning of π -electrons in rings of polycyclic conjugated molecules containing heteroatoms
MATCH Communications in Mathematical and in Computer Chemistry **56**
(2006) 345–356.
938. I. Gutman, S. Radenković, N. Trinajstić, A. Vodopivec (8 V 2006)
On the relationship between π -electron energy and topological resonance energy
Zeitschrift für Naturforschung **61a** (2006) 345–348.
937. I. Gutman, B. Furtula (3 V 2006)
A Kekulé structure basis for phenylenes
Journal of Molecular Structure (Theochem) **770** (2006) 67–71.
936. J. Sedlar, I. Anđelić, I. Gutman, D. Vukičević, A. Graovac (26 IV 2006)
Vindicating the Pauling-bond-order concept
Chemical Physics Letters **427** (2006) 418–420.
935. G. Brinkmann, C. Grothaus, I. Gutman (24 IV 2006)
Fusenes and benzenoids with perfect matchings
Journal of Mathematical Chemistry **42** (2007) 909–924.
934. I. Gutman, N. Turković, B. Furtula (20 IV 2006)
On distribution of π -electrons in rhombus-shaped benzenoid hydrocarbons
Indian Journal of Chemistry **45A** (2006) 1601–1604.
933. J. Đurđević, B. Furtula, I. Gutman, S. Radenković (15 IV 2006)
Dependence of Hess-Schaad resonance energy on Kekulé structures
Kragujevac Journal of Science **28** (2006) 57–64.
932. I. Gutman, O. Miljković, B. Zhou, M. Petrović (24 III 2006)
Inequalities between distance-based graph polynomials
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **133** (2006) 57–68.

931. B. Zhou, I. Gutman (21 III 2006)
On Laplacian energy of graphs
MATCH Communications in Mathematical and in Computer Chemistry **57**
(2007) 211–220.
930. S. Zhou, H. Zhang, I. Gutman (14 III 2006)
Relations between Clar structures, Clar covers, and the sextet–rotation tree of
a hexagonal system
Discrete Applied Mathematics **156** (2008) 1809–1821.
929. S. Gojak, S. Radenković, R. Kovačević, S. Stanković, J. Đurđević, I. Gutman
(8 III 2006)
A difference between the π -electron properties of catafusenes and perifusenes
Polycyclic Aromatic Compounds **26** (2006) 197–206.
928. I. Gutman (5 III 2006)
Mathematical modeling of chemical phenomena
in the book: K. R. Stevanović Hedrih (Ed.), *Advances in Nonlinear Sciences. Vol. 2. Sciences and Applications*, Academy of Nonlinear Sciences, Belgrade, 2008, pp. 110–136 (even pages).
Serbian language version:
Matematičko modeliranje hemijskih fenomena
in the book: K. R. Stevanović Hedrih (Ed.), *Advances in Nonlinear Sciences. Vol. 2. Sciences and Applications*, Academy of Nonlinear Sciences, Belgrade, 2008, pp. 111–137 (odd pages)
also published as:
I. Gutman (8 II 2008)
Mathematical modeling of chemical phenomena
in the book: A. Graovac, I. Gutman, D. Vukičević (Eds.), *Mathematical Methods and Modelling for Students of Chemistry and Biology*, Hum, Zagreb, 2009, pp. 13–27.
927. I. Gutman, S. Radenković (1 III 2006)
Extending and modifying the Hall rule
Chemical Physics Letters **423** (2006) 382–385.
926. I. Gutman, S. Radenković (21 II 2006)
A simple formula for calculating resonance energy of benzenoid hydrocarbons
Bulletin of the Chemists and Technologists of Macedonia **25** (2006) 17–21.
925. I. Gutman, B. Furtula (13 II 2006)
Equivalence of two models for partitioning of π -electrons in rings of benzenoid hydrocarbons
Zeitschrift für Naturforschung **61a** (2006) 281–285.
924. I. Gutman, S. Radenković (1 II 2006)
Dependence of Dewar resonance energy of benzenoid molecules on Kekulé structure count
Journal of the Serbian Chemical Society **71** (2006) 1039–1047.
923. I. Raška, A. Toropov, I. Gutman, D. Završnik, S. Špirtović (I 2006)
QSPR modeling of octanol/water partition coefficient of vitamins
in the book: I. Gutman (Ed.), *Mathematical Methods in Chemistry*, Prijepolje Museum, Prijepolje, 2006, pp. 197–208.
922. I. Gutman, S. Radenković (I 2006)
Investigation of Hosoya bond order
in the book: I. Gutman (Ed.), *Mathematical Methods in Chemistry*, Prijepolje Museum, Prijepolje, 2006, pp. 169–181.

921. S. Gojak, S. Stanković, I. Gutman, B. Furtula (I 2006)
Zhang–Zhang polynomial and some of its applications
in the book: I. Gutman (Ed.), *Mathematical Methods in Chemistry*, Prijepolje
Museum, Prijepolje, 2006, pp. 141–158.
920. I. Gutman, L. Türker, V. Vučković (I 2006)
McClelland number of conjugated compounds
in the book: I. Gutman (Ed.), *Mathematical Methods in Chemistry*, Prijepolje
Museum, Prijepolje, 2006, pp. 131–140.
919. J. Đurđević, B. Furtula, I. Gutman, R. Kovačević, S. Stanković, N. Turković (I
2006)
Cyclic conjugation in annelated perylenes
in the book: I. Gutman (Ed.), *Mathematical Methods in Chemistry*, Prijepolje
Museum, Prijepolje, 2006, pp. 101–117.
918. B. Furtula, I. Gutman (I 2006)
Partitioning of π -electrons in the rings of benzenoid hydrocarbons using Fries
structural formulas
in the book: I. Gutman (Ed.), *Mathematical Methods in Chemistry*, Prijepolje
Museum, Prijepolje, 2006, pp. 89–100.
917. N. Turković, B. Furtula, I. Gutman (I 2006)
Electron and energy content of hexagons in benzenoid hydrocarbons
in the book: I. Gutman (Ed.), *Mathematical Methods in Chemistry*, Prijepolje
Museum, Prijepolje, 2006, pp. 73–87.
916. S. Gojak, I. Gutman, B. Furtula (I 2006)
On distribution of π -electrons in double linear hexagonal chains
in the book: I. Gutman (Ed.), *Mathematical Methods in Chemistry*, Prijepolje
Museum, Prijepolje, 2006, pp. 63–72.
915. D. Vukičević, I. Gutman, M. Randić (16 I 2006)
On instability of fullerene C_{72}
Croatica Chemica Acta **79** (2006) 429–436.
- | | |
|------|---|
| 914. | X. Li, I. Gutman (XII 2005)
<i>Mathematical Aspects of Randić–Type Molecular Structure Descriptors</i>
University of Kragujevac & Faculty of Science Kragujevac, Kragujevac,
2006, pp. VI+330. |
|------|---|
913. I. Gutman, S. Gojak, B. Furtula, S. Radenković, A. Vodopivec (22 XII 2005)
Relating total π -electron energy and resonance energy of benzenoid molecules
with Kekulé– and Clar–structure–based parameters
Monatshefte für Chemie **137** (2006) 1127–1138.
912. B. Zhou, I. Gutman (19 XII 2005)
A connection between ordinary and Laplacian spectra of bipartite graphs
Linear and Multilinear Algebra **56** (2008) 305–310.
911. B. Zhou, I. Gutman, J. A. de la Peña, J. Rada, L. Mendoza (17 XII 2005)
On spectral moments and energy of graphs
MATCH Communications in Mathematical and in Computer Chemistry **57**
(2007) 183–191.
910. I. Gutman, S. Zhang (25 XI 2005)
Graph connectivity and Wiener index
*Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences
Mathématiques et Naturelles)* **133** (2006) 1–5.

909. S. Radenković, I. Gutman (24 XI 2005)
On Hosoya bond order of alternant nonbenzenoid molecules
Kragujevac Journal of Science **28** (2006) 39–46.
908. H. B. Walikar, H. S. Ramane, L. Sindagi, S. S. Shirakol, I. Gutman (20 XI 2005)
Hosoya polynomial of thorn trees, rods, rings, and stars
Kragujevac Journal of Science **28** (2006) 47–56.
907. I. Gutman, A. Vodopivec, S. Radenković, B. Furtula (15 XI 2005)
On π -electron excess of rings of benzenoid molecules
Indian Journal of Chemistry **45A** (2006) 347–351.
906. M. Perić, I. Gutman, J. Radić-Perić (14 XI 2005)
The Hückel total π -electron energy puzzle
Journal of the Serbian Chemical Society **71** (2006) 771–783.
905. I. Gutman (5 XI 2005)
Uniqueness of the matching polynomial
MATCH Communications in Mathematical and in Computer Chemistry **55**
(2006) 351–358.
904. I. Gutman, B. Furtula, A. T. Balaban (27 X 2005)
Algorithm for simultaneous calculation of Kekulé and Clar structure counts,
and Clar number of benzenoid molecules
Polycyclic Aromatic Compounds **26** (2006) 17–35.
903. I. Gutman, B. Arsić, M. Denić, I. Stojanović (3 X 2005)
Benzenoid isomers with greatest and smallest Kekulé structure counts
Journal of the Serbian Chemical Society **71** (2006) 785–791.
902. I. Gutman, S. Gojak, S. Stanković, B. Furtula (6 IX 2005)
A concealed difference between the structure-dependence of Dewar and topo-
logical resonance energy
Journal of Molecular Structure (Theochem) **757** (2005) 119–123.
901. K. Salem, M. Zheng, I. Gutman (31 VIII 2005)
Pair-wise resonance in catacondensed hexagonal systems
Chemical Physics Letters **416** (2005) 38–41.
900. I. Gutman, B. Borovićanin (25 VII 2005)
Zhang–Zhang polynomial of multiple linear hexagonal chains
Zeitschrift für Naturforschung **61a** (2006) 73–77.
899. I. Gutman, S. Gojak, N. Radulović, B. Furtula (19 VII 2005)
Benzenoid molecules with uniform distribution of π -electrons within rings
Monatshefte für Chemie **137** (2006) 277–284.
898. I. Gutman, B. Zhou (12 VII 2005)
Laplacian energy of a graph
Linear Algebra and Its Applications **414** (2006) 29–37.
897. I. Gutman, S. Gojak, B. Furtula (11 VII 2005)
Clar theory and resonance energy
Chemical Physics Letters **413** (2005) 396–399.
896. I. Gutman, W. Yan, Y. N. Yeh, B. Y. Yang (9 VII 2005)
Generalized Wiener indices of zigzagging pentachains
Journal of Mathematical Chemistry **42** (2007) 103–117.
895. I. Gutman, S. Klavžar (8 VII 2005)
Chemical graph theory of fibonacenes
MATCH Communications in Mathematical and in Computer Chemistry **55**
(2006) 39–54.

894. I. Gutman, M. Mateljević (13 VI 2005)
Note on the Coulson integral formula
Journal of Mathematical Chemistry **39** (2006) 259–266.
893. S. Klavžar, I. Gutman (1 VI 2005)
A theorem on Wiener-type invariants for isometric subgraphs of hypercubes
Applied Mathematics Letters **19** (2006) 1129–1133.
892. I. Gutman, S. Stanković, R. Kovačević, J. Đurđević, B. Furtula (16 V 2005)
Anomalous cyclic conjugation in benzenoid molecules with a small number of Kekulé structures
Indian Journal of Chemistry **44A** (2005) 1751–1755.
891. B. Liu, I. Gutman (2 V 2005)
Upper bounds for Zagreb indices of connected graphs
MATCH Communications in Mathematical and in Computer Chemistry **55** (2006) 439–446.
890. M. Petrović, I. Gutman, S. Guo (22 IV 2005)
On the spectral radius of bicyclic graphs
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **131** (2005) 93–99.
889. B. Hollas, I. Gutman, N. Trinajstić (11 IV 2005)
On reducing correlations between topological indices
Croatica Chemica Acta **78** (2005) 489–492.
888. Y. Hu, X. Li, Y. Shi, T. Xu, I. Gutman (8 IV 2005)
On molecular graphs with smallest and greatest zeroth-order general Randić index
MATCH Communications in Mathematical and in Computer Chemistry **54** (2005) 425–434.
887. A. A. Toropov, A. P. Toropova, D. V. Mukhamedzhanova, I. Gutman (7 IV 2005)
Simplified molecular input line entry system (SMILES) as an alternative for constructing quantitative structure–property relationships (QSPR)
Indian Journal of Chemistry **44A** (2005) 1545–1552.
886. I. Gutman, B. Furtula, S. Jeremić, N. Turković (1 III 2005)
Electron content of rings of fully benzenoid hydrocarbons
Journal of the Serbian Chemical Society **70** (2005) 1199–1204.
885. I. Gutman, M. Randić, A. T. Balaban, B. Furtula, V. Vučković (16 II 2005)
 π -Electron contents of rings in the double-hexagonal-chain homologous series (pyrene, anthanthrene, . . .)
Polycyclic Aromatic Compounds **25** (2005) 215–226.
884. I. Gutman, L. Türker, B. Furtula, V. Vučković (9 II 2005)
The McClelland number of conjugated hydrocarbons
Croatica Chemica Acta **78** (2005) 485–488.
883. I. Gutman, S. Radenković, B. Furtula, H. Hosoya (4 II 2005)
Some properties of the topological bond order
Chemical Physics Letters **407** (2005) 73–77.
882. A. A. Toropov, A. P. Toropova, I. Gutman (18 I 2005)
Comparison of QSPR models based on hydrogen-filled graphs and on graphs of atomic orbitals
Croatica Chemica Acta **78** (2005) 503–509.

881. I. Gutman, B. Furtula, J. Đurđević, R. Kovačević, S. Stanković (12 I 2005)
Annulated perylenes: Benzenoid molecules violating the Kekulé–structure–based cyclic conjugation models
Journal of the Serbian Chemical Society **70** (2005) 1023–1031.
880. I. Gutman, B. Furtula, V. Vučković, B. Arsić, M. Randelović (24 XII 2004)
Partition of π -electrons in rings of double linear hexagonal chains
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **130** (2005) 97–105.
879. L. Türker, I. Gutman (8 XII 2004)
Iterative estimation of total π -electron energy
Journal of the Serbian Chemical Society **70** (2005) 1193–1197.
878. I. Gutman, G. Stojanović, Ž. Bošković, N. Radulović, P. Rašić (12 XI 2004)
Comparing the Randić–Balaban and the Clar models for partitioning of π -electrons in rings of benzenoid hydrocarbons. The case of phenes and starphenes
Polycyclic Aromatic Compounds **25** (2005) 345–355.
877. I. Gutman (4 XI 2004)
Topology and stability of conjugated hydrocarbons. The dependence of total π -electron energy on molecular topology
Journal of the Serbian Chemical Society **70** (2005) 441–456.
876. I. Gutman, A. T. Balaban, M. Randić, C. Kiss–Tóth (2 XI 2004)
Partitioning of π -electrons in rings of fibonacenes
Zeitschrift für Naturforschung **60a** (2005) 171–176.
875. B. Zhou, I. Gutman (1 XI 2004)
Further properties of Zagreb indices
MATCH Communications in Mathematical and in Computer Chemistry **54** (2005) 233–239.
874. K. Salem, I. Gutman (X 2004)
The unfixed subgraph of a catacondensed hexagonal system obtained by fixing an alternating set
Journal of Mathematical Chemistry **38** (2005) 503–510.
873. P. Hansen, H. Mélot, I. Gutman (4 X 2004)
Variable neighborhood search for extremal graphs 12. A note on the variance of bounded degrees in graphs
MATCH Communications in Mathematical and in Computer Chemistry **54** (2005) 221–232.
also published in:
Les Cahiers du GERAD G-2004-74 (2004) 1–12.
872. I. Gutman (24 IX 2004)
Some relations between distance–based polynomials of trees
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **131** (2005) 1–7.
871. I. Gutman, N. Turković (7 IX 2004)
On the distribution of π -electrons into rings of conjugated hydrocarbons containing a linear polyacene fragment
Monatshefte für Chemie **136** (2005) 713–717.
870. I. Gutman, Ž. Tomović, K. Müllen, J. P. Rabe (19 VIII 2004)
On the distribution of π -electrons in large polycyclic aromatic hydrocarbons
Chemical Physics Letters **397** (2004) 412–416.
869. H. S. Ramane, I. Gutman, H. B. Walikar, S. B. Halkarni (3 VIII 2004)
Equienergetic complement graphs
Kragujevac Journal of Science **27** (2005) 67–74.

868. I. Gutman (3 VIII 2004)
Cyclic conjugation energy effects in polycyclic π -electron systems
Monatshefte für Chemie **136** (2005) 1055–1069.
867. I. Gutman, S. Milosavljević, B. Furtula, N. Cmiljanović (2 VIII 2004)
Relation between electron and energy contents of hexagons in pericondensed benzenoid hydrocarbons
Indian Journal of Chemistry **44A** (2005) 13–17.
866. I. Gutman (VII 2004)
Chemical graph theory – The mathematical connection
in the book: J. R. Sabin, E. J. Brändas (Eds.), *Advances in Quantum Chemistry* **51**, Elsevier, Amsterdam, 2006, pp. 125–138.
865. B. Furtula, I. Gutman, N. Turković (30 VII 2004)
Relation between electron and energy contents of hexagons in catacondensed benzenoid hydrocarbons
Indian Journal of Chemistry **44A** (2005) 9–12.
864. I. Gutman, S. Gojak, N. Turković, B. Furtula (16 VII 2004)
Polansky's benzenoid character and the electron content of rings of benzenoid hydrocarbons
MATCH Communications in Mathematical and in Computer Chemistry **53** (2005) 139–145.
863. I. Gutman, B. Furtula, S. Radenković (14 VII 2004)
Relation between Pauling and Coulson bond orders in benzenoid hydrocarbons
Zeitschrift für Naturforschung **59a** (2004) 699–704.
862. H. S. Ramane, I. Gutman, H. B. Walikar, S. B. Halkarni (11 VII 2004)
Another class of equienergetic graphs
Kragujevac Journal of Mathematics **26** (2004) 15–18.
861. K. Salem, I. Gutman (25 VI 2004)
Clar number of hexagonal chains
Chemical Physics Letters **394** (2004) 283–286.
860. A. A. Toropov, I. Gutman, B. Furtula (24 VI 2004)
Graph of atomic orbitals and molecular structure-descriptors based on it
Journal of the Serbian Chemical Society **70** (2005) 669–674.
859. I. Gutman, B. Furtula, A. A. Toropov, A. P. Toropova (20 VI 2004)
The graph of atomic orbitals and its basic properties. 2. Zagreb indices
MATCH Communications in Mathematical and in Computer Chemistry **53** (2005) 225–230.
858. B. Zhou, I. Gutman (16 VI 2004)
Relations between Wiener, hyper-Wiener and Zagreb indices
Chemical Physics Letters **394** (2004) 93–95.
857. I. Gutman, A. A. Toropov, A. P. Toropova (5 VI 2004)
The graph of atomic orbitals and its basic properties. 1. Wiener index
MATCH Communications in Mathematical and in Computer Chemistry **53** (2005) 215–224.
856. I. Gutman, B. Furtula, B. Arsić (8 VI 2004)
On structure descriptors related with intramolecular energy of alkanes
Zeitschrift für Naturforschung **59a** (2004) 694–698.
855. S. Fiorini, I. Gutman, I. Sciriha (2 VI 2004)
Trees with maximum nullity
Linear Algebra and Its Applications **397** (2005) 245–251.

854. I. Sciriha, I. Gutman (21 V 2004)
Minimal configuration trees
Linear and Multilinear Algebra **54** (2006) 141–145.
853. I. Gutman, N. Turković, J. Jovičić (12 V 2004)
Cyclic conjugation in benzo-annulated perylenes: How empty is the “empty” ring?
Monatshefte für Chemie **135** (2004) 1389–1394.
852. I. Gutman (10 V 2004)
Electron content and electron excess of rings of benzenoid hydrocarbons
Indian Journal of Chemistry **43A** (2004) 1615–1618.
851. T. Morikawa, S. Narita, I. Gutman (20 IV 2004)
Balancing the Pauling bond orders in Kekuléan benzenoid hydrocarbons
Journal of Molecular Structure (Theochem) **686** (2004) 181–183.
850. H. S. Ramane, H. B. Walikar, S. B. Rao, B. D. Acharya, P. R. Hampiholi, S. R. Jog, I. Gutman (7 IV 2004)
Spectra and energies of iterated line graphs of regular graphs
Applied Mathematics Letters **18** (2005) 679–682.
849. Z. Marković, D. Badjuk, I. Gutman (6 IV 2004)
Geometry and conformations of benzenecarboxylic acids
Journal of the Serbian Chemical Society **69** (2004) 877–882.
848. D. Vukičević, I. Gutman (1 IV 2004)
Laplacian matrix and distance in trees
Kragujevac Journal of Mathematics **26** (2004) 19–24.
847. I. Gutman, B. Furtula, N. Turković (III 2004)
Electron and energy contents of hexagons in benzenoid hydrocarbons
Polycyclic Aromatic Compounds **25** (2005) 87–94.
846. I. Gutman (III 2004)
A spectral property of regular and semiregular graphs
Bulletin of Society of Mathematicians Banja Luka **11** (2004) 1–4.
845. I. Sciriha, I. Gutman (16 III 2004)
Minimal configurations and interlacing
Graph Theory Notes of New York **49** (2005) 38–40.
844. D. Vukičević, I. Gutman (15 III 2004)
Almost all trees and chemical trees have equiseparable mates
Journal of Computer Chemistry Japan **3** (2004) 109–112.
843. B. Zhou, I. Gutman (12 III 2004)
Estimating the modified Hosoya index
MATCH Communications in Mathematical and in Computer Chemistry **52** (2004) 183–192.
842. I. Gutman (8 III 2004)
What chemists could not see without mathematics – Dependence of total π -electron energy on molecular structure
Kragujevac Journal of Science **27** (2005) 57–66.
also published in:
Xjenja (Malta) **10** (2005) 3–7.
841. I. Gutman, D. Stevanović, S. Radenković, S. Milosavljević, N. Cmiljanović (8 III 2004)
Dependence of total π -electron energy on large number of non-bonding molecular orbitals
Journal of the Serbian Chemical Society **69** (2004) 777–782.

840. I. Gutman, B. Furtula (6 II 2004)
Effect of ethyl groups on the relation between Zenkevich and Wiener indices
Kragujevac Journal of Science **26** (2004) 31-42.
839. I. Gutman, B. Furtula, O. Miljković, M. Rakić (27 I 2004)
Families of equiseparable trees and chemical trees
Kragujevac Journal of Science **26** (2004) 19-30.
838. V. Brankov, D. Stevanović, I. Gutman (26 I 2004)
Equienergetic chemical trees
Journal of the Serbian Chemical Society **69** (2004) 549-553.
837. I. Gutman, N. Cmiljanović, S. Milosavljević, S. Radenković (8 I 2004)
Dependence of total π -electron energy on the number of non-bonding molecular orbitals
Monatshefte für Chemie **135** (2004) 765-772.
836. I. Gutman, T. Morikawa, S. Narita (8 I 2004)
On π -electron content of bonds and rings in benzenoid hydrocarbons
Zeitschrift für Naturforschung **59a** (2004) 295-298.
835. K. C. Das, I. Gutman (5 I 2004)
Some properties of the second Zagreb index
MATCH Communications in Mathematical and in Computer Chemistry **52** (2004) 103-112.
834. I. Gutman, W. Xiao (26 XII 2003)
Generalized inverse of the Laplacian matrix and some applications
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **129** (2004) 15-23.
833. O. Miljković, B. Furtula, I. Gutman (5 XII 2003)
Statistics of equiseparable trees and chemical trees
MATCH Communications in Mathematical and in Computer Chemistry **51** (2004) 179-184.
832. I. Gutman, P. Hansen, H. Mélot (28 XI 2003)
Variable neighborhood search for extremal graphs 10. Comparison of irregularity indices for chemical trees
Journal of Chemical Information and Modeling **45** (2005) 222-230.
also published in:
Les Cahiers du GERAD G-2003-78 (2003) 1-22.
831. H. S. Ramane, H. B. Walikar, S. B. Rao, B. D. Acharya, P. R. Hampiholi, S. R. Jog, I. Gutman (25 XI 2003)
Equienergetic graphs
Kragujevac Journal of Mathematics **26** (2004) 5-13.
830. I. Gutman (19 XI 2003)
On the distribution of π -electrons in benzenoid hydrocarbons
Bulletin of the Chemists and Technologists of Macedonia **22** (2003) 105-110.
829. I. Gutman, B. Furtula, D. Vukičević, B. Arsić (17 XI 2003)
Equiseparable molecules and molecular graphs
Indian Journal of Chemistry **43A** (2004) 7-10.
828. Đ. Baralić, I. Gutman, B. Popović (15 XI 2003)
Solution of the Türker inequality
Kragujevac Journal of Science **26** (2004) 13-18.
827. G. G. Cash, I. Gutman (10 XI 2003)
The Laplacian permanental polynomial: Formulas and algorithms
MATCH Communications in Mathematical and in Computer Chemistry **51** (2004) 129-136.

826. I. Gutman, B. Furtula, B. Arsić, Ž. Bošković (4 XI 2003)
On the relation between Zenkevich and Wiener indices of alkanes
Journal of the Serbian Chemical Society **69** (2004) 265–271.
825. W. Xiao, I. Gutman (3 XI 2003)
Relations between resistance and Laplacian matrices and their applications
MATCH Communications in Mathematical and in Computer Chemistry **51**
(2004) 119–127.
824. I. Gutman, D. Vukičević, A. Graovac, M. Randić (28 X 2003)
Algebraic Kekulé structures of benzenoid hydrocarbons
Journal of Chemical Information and Computer Sciences **44** (2004) 296–299.
823. J. Aires-de-Sousa, J. Gasteiger, I. Gutman, D. Vidović (10 X 2003)
Chirality codes and molecular structure
Journal of Chemical Information and Computer Sciences **44** (2004) 831–836.
- | |
|---|
| <p>I. Gutman (IX 2003)
822. <i>Uvod u hemijsku teoriju grafova [Introduction to Chemical Graph Theory]</i>
Faculty of Science Kragujevac, Kragujevac, 2003, pp. IV+201.</p> |
|---|
821. I. Gutman, N. Cmiljanović, S. Milosavljević, S. Radenković (22 IX 2003)
Effect of non-bonding molecular orbitals on total π -electron energy
Chemical Physics Letters **383** (2004) 171–175.
820. I. Gutman (2 IX 2003)
Graphs with smallest sum of squares of vertex degrees
Kragujevac Journal of Mathematics **25** (2003) 51–54.
819. I. Gutman, K. C. Das (26 VIII 2003)
The first Zagreb index 30 years after
MATCH Communications in Mathematical and in Computer Chemistry **50**
(2004) 83–92.
818. K. Salem, S. Klavžar, I. Gutman (13 VIII 2003)
On the role of hypercubes in the resonance graphs of benzenoid graphs
Discrete Mathematics **306** (2006) 699–704.
817. R. B. Bapat, I. Gutman, W. Xiao (2 VIII 2003)
A simple method for computing resistance distance
Zeitschrift für Naturforschung **58a** (2003) 494–498.
816. T. Morikawa, S. Narita, I. Gutman (1 VIII 2003)
Hexagonoidal partitioning and quasi-single bonds in benzenoid hydrocarbons
Polycyclic Aromatic Compounds **25** (2004) 75–82.
815. I. Gutman, L. Türker (24 VII 2003)
Angle of graph energy – A spectral measure of resemblance of isomeric molecules
Indian Journal of Chemistry **42A** (2003) 2698–2701.
814. I. Gutman, B. Furtula, D. Vidović, H. Hosoya (22 VII 2003)
A concealed property of the topological index Z
Bulletin of the Chemical Society of Japan **77** (2004) 491–496.
813. I. Gutman, L. Türker (21 VII 2003)
Estimating the angle of total π -electron energy
Journal of Molecular Structure (Theochem) **668** (2004) 119–121.
812. I. Gutman (7 VII 2003)
Hyper-Wiener index and Laplacian spectrum
Journal of the Serbian Chemical Society **68** (2003) 949–952.

811. I. Gutman, B. Furtula, J. Belić (7 VII 2003)
Note on the hyper–Wiener index
Journal of the Serbian Chemical Society **68** (2003) 943–948.
810. I. Gutman, L. Türker (10 VI 2003)
Correcting the azimuthal angle concept: nonexistence of an upper bound
Chemical Physics Letters **378** (2003) 425–427.
809. X. Li, H. Zhao, I. Gutman (23 V 2003)
On the Merrifield–Simmons index of trees
MATCH Communications in Mathematical and in Computer Chemistry **54** (2005) 389–402.
808. W. Xiao, I. Gutman (16 III 2003)
Resistance distance and Laplacian spectrum
Theoretical Chemistry Accounts **110** (2003) 284–289.
807. K. Salem, I. Gutman (10 III 2003)
On sextet and cell polynomials of catacondensed benzenoid hydrocarbons
Kragujevac Journal of Science **25** (2003) 93–106.
806. I. Gutman, L. Pavlović (28 II 2003)
On the coefficients of the Laplacian characteristic polynomial of trees
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **127** (2003) 31–40.
805. W. Xiao, I. Gutman (26 II 2003)
On resistance matrices
MATCH Communications in Mathematical and in Computer Chemistry **49** (2003) 67–81.
804. I. Gutman, B. Arsić, B. Furtula (21 II 2003)
Equiseparable chemical trees
Journal of the Serbian Chemical Society **68** (2003) 549–555.
803. S. Klavžar, I. Gutman (18 II 2003)
Relation between Wiener–type topological indices of benzenoid molecules
Chemical Physics Letters **373** (2003) 328–332.
802. D. Todorović, I. Gutman, M. Radulović (4 II 2003)
A stochastic chiral amplification model
Chemical Physics Letters **372** (2003) 464–468.
801. I. Gutman, D. Vidović, N. Cmiljanović, S. Milosavljević, S. Radenković (27 I 2003)
Graph energy – A useful molecular structure–descriptor
Indian Journal of Chemistry **42A** (2003) 1309–1311.
800. Z. Marković, V. Ivanov–Petrović, I. Gutman (21 I 2003)
Extremely branched alkanes
Journal of Molecular Structure (Theochem) **629** (2003) 303–306.
799. P. V. Khadikar, I. Lukovits, V. K. Agrawal, S. Shrivastava, M. Jaiswal, I. Gutman, S. Karmarkar, A. Shrivastava (6 I 2003)
Equalized electronegativity and topological indices: Application for modeling toxicity of nitrobenzene derivatives
Indian Journal of Chemistry **42A** (2003) 1436–1441.
798. I. Gutman, D. Vukičević, J. Žerovnik (20 XII 2002)
A class of modified Wiener indices
Croatica Chemica Acta **77** (2004) 103–109.

797. I. Gutman (19 XII 2002)
A new hyper–Wiener index
Croatica Chemica Acta **77** (2004) 61–64.
796. I. Gutman (16 XII 2002)
Relation between the Laplacian and the ordinary characteristic polynomial
MATCH Communications in Mathematical and in Computer Chemistry **47** (2003) 133–140.
795. I. Gutman, B. Furtula (10 XII 2002)
Hyper–Wiener index vs. Wiener index. Two highly correlated structure–descriptors
Monatshefte für Chemie **134** (2003) 975–981.
794. I. Gutman, D. Vidović, B. Furtula, A. Vesel (16 X 2002)
Relations between topological indices of large chemical trees
Indian Journal of Chemistry **42A** (2003) 1241–1245.
793. D. Vukičević, I. Gutman (10 X 2002)
Note on a class of modified Wiener indices
MATCH Communications in Mathematical and in Computer Chemistry **47** (2003) 107–117.
792. I. Gutman, D. Vidović, B. Furtula, I. G. Zenkevich (7 X 2002)
Wiener–type indices and internal molecular energy
Journal of the Serbian Chemical Society **68** (2003) 401–408.
791. I. Gutman (27 IX 2002)
Some properties of Laplacian eigenvectors
Bulletin de l'Académie Serbe des Sciences at des Arts (Classe des Sciences Mathématiques et Naturelles) **127** (2003) 1–6.
790. I. Gutman, D. Vidović, B. Furtula (10 IX 2002)
Chemical applications of the Laplacian spectrum. VII. Studies of the Wiener and Kirchhoff indices
Indian Journal of Chemistry **42A** (2003) 1272–1278.
789. I. Gutman (27 VIII 2002)
Algebraic structure count of linear phenylenes and their congeners
Journal of the Serbian Chemical Society **68** (2003) 391–399.
788. M. Petrović, I. Gutman (23 VIII 2002)
The path is the tree with smallest greatest Laplacian eigenvalue
Kragujevac Journal of Mathematics **24** (2002) 67–70.
787. I. Gutman (23 VIII 2002)
The star is the tree with greatest greatest Laplacian eigenvalue
Kragujevac Journal of Mathematics **24** (2002) 61–65.
786. A. Dress, S. Grünwald, I. Gutman, M. Lepović, D. Vidović (VII 2002)
On the number of walks in trees
MATCH Communications in Mathematical and in Computer Chemistry **48** (2003) 63–85.
785. I. Gutman (23 VII 2002)
Relation between hyper–Wiener and Wiener index
Chemical Physics Letters **364** (2002) 352–356.
784. I. Gutman, A. A. Dobrynin, S. Klavžar, L. Pavlović (15 VII 2002)
Wiener–type invariants of trees and their relation
Bulletin of the Institute of Combinatorics and Applications **40** (2004) 23–30.

783. E. A. Castro, I. Gutman, D. Marino, P. Peruzzo (18 VI 2002)
Upgrading the Wiener index
Journal of the Serbian Chemical Society **67** (2002) 647–651.
782. I. Gutman, I. G. Zenkevich (4 VI 2002)
Wiener index and vibrational energy
Zeitschrift für Naturforschung **57a** (2002) 824–828.
781. B. Furtula, I. Gutman, Ž. Tomović, A. Vesel, I. Pesek (3 VI 2002)
Wiener-type topological indices of phenylenes
Indian Journal of Chemistry **41A** (2002) 1767–1772.
780. I. Gutman (18 III 2002)
How many benzenoid hydrocarbons?
Bulletin of the Chemists and Technologists of Macedonia **21** (2002) 53–56.
779. I. Gutman (3 III 2002)
On an upper bound for Laplacian eigenvalues
Graph Theory Notes of New York **44** (2003) 41–43.
778. I. Gutman, D. Vidović, D. Stevanović (28 II 2002)
Chemical applications of the Laplacian spectrum. VI. On the largest Laplacian eigenvalue of alkanes
Journal of the Serbian Chemical Society **67** (2002) 407–413.
777. B. Borovićanin, I. Gutman, M. Petrović (22 II 2002)
Tetracyclic harmonic graphs
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **123** (2002) 19–31.
776. I. Gutman, J. Žerovnik (20 II 2002)
Corroborating a modification of the Wiener index
Croatica Chemica Acta **75** (2002) 603–612.
775. I. Gutman, B. Furtula, D. Vidović (16 II 2002)
Coulson function and total π -electron energy
Kragujevac Journal of Science **24** (2002) 71–82.
774. I. Gutman (12 II 2002)
The Coulson function
Kragujevac Journal of Science **24** (2002) 65–70.
773. I. Gutman, D. Vidović (11 II 2002)
The largest eigenvalues of adjacency and Laplacian matrices, and ionization potentials of alkanes
Indian Journal of Chemistry **41A** (2002) 893–896.
772. I. Gutman, D. Vidović, B. Furtula (24 I 2002)
Coulson function and Hosoya index
Chemical Physics Letters **355** (2002) 378–382.
771. G. Rucker, C. Rucker, I. Gutman (22 I 2002)
On kites, comets, and stars. Sums of eigenvector coefficients in (molecular) graphs
Zeitschrift für Naturforschung **57a** (2002) 143–153.
770. M. Fischermann, I. Gutman, A. Hoffmann, D. Rautenbach, D. Vidović, L. Volkmann (14 I 2002)
Extremal chemical trees
Zeitschrift für Naturforschung **57a** (2002) 49–52.

769. I. Gutman (XII 2001)
Impact of the Sachs theorem on theoretical chemistry: A participant's testimony
MATCH Communications in Mathematical and in Computer Chemistry **48** (2003) 17–34.
768. I. Gutman, D. Vidović, H. Hosoya (26 XII 2001)
The relation between the eigenvalue sum and the topological index Z revisited
Bulletin of the Chemical Society of Japan **75** (2002) 1723–1727.
767. G. Caporossi, I. Gutman, P. Hansen, L. Pavlović (18 XII 2001)
Graphs with maximum connectivity index
Computational Biology and Chemistry **27** (2003) 85–90.
766. S. Klavžar, P. Žigert, I. Gutman (10 XII 2001)
Clar number of catacondensed benzenoid hydrocarbons
Journal of Molecular Structure (Theochem) **586** (2002) 235–240.
765. A. A. Dobrynin, I. Gutman, S. Klavžar, P. Žigert (5 XII 2001)
Wiener index of hexagonal systems
Acta Applicandae Mathematicae **72** (2002) 247–294.
764. I. Gutman, D. Vidović (2 XII 2001)
Two early branching indices and the relation between them
Theoretical Chemistry Accounts **108** (2002) 98–102.
763. I. Gutman, M. Lepović, D. Vidović, L. H. Clark (20 XI 2001)
Exponent-dependent properties of the connectivity index
Indian Journal of Chemistry **41A** (2002) 457–461.
762. A. Dress, I. Gutman (X 2001)
Asymptotic results regarding the number of walks in a graph
Applied Mathematics Letters **16** (2003) 389–393.
761. A. Dress, I. Gutman (X 2001)
The number of walks in a graph
Applied Mathematics Letters **16** (2003) 797–801.
760. I. Gutman (3 IX 2001)
Two theorems on connectivity indices
Journal of the Serbian Chemical Society **67** (2002) 99–102.
759. I. Gutman, D. Vidović, A. Nedić (3 IX 2001)
Ordering of alkane isomers by means of connectivity indices
Journal of the Serbian Chemical Society **67** (2002) 87–97.
758. I. Gutman, G. G. Cash (VIII 2001)
Relations between the permanent and characteristic polynomials of fullerenes and benzenoid hydrocarbons
MATCH Communications in Mathematical and in Computer Chemistry **45** (2002) 55–70.
757. I. Gutman (28 VIII 2001)
A spectral property of graphs
Graph Theory Notes of New York **44** (2003) 10–13.
756. B. Borovićanin, S. Grünwald, I. Gutman, M. Petrović (27 VII 2001)
Harmonic graphs with small number of cycles
Discrete Mathematics **265** (2003) 31–44.
755. I. Gutman (VI 2001)
Chemistry and algebra
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **124** (2003) 11–24.

754. I. Lukovits, I. Gutman (4 VI 2001)
On Morgan-trees
Croatica Chemica Acta **75** (2002) 563–576.
753. A. V. Teodorović, M. D. Joksović, I. Gutman, Ž. Tomović (31 V 2001)
Amino acid mediated borane reduction of ketones II
Monatshefte für Chemie **133** (2002) 23–29.
752. I. Gutman, D. Vidović (25 V 2001)
Conjugated molecules with maximal total π -electron energy
Bulletin de l'Académie Serbe des Sciences at des Arts (Classe des Sciences Mathématiques et Naturelles) **124** (2003) 1–7.
751. I. Gutman, M. Lepović (4 V 2001)
Choosing the exponent in the definition of the connectivity index
Journal of the Serbian Chemical Society **66** (2001) 605–611.