

Scientific Papers of Ivan Gutman

(1251 — 1529)

1529. A. M. Albalahi, M. Rizwan, A. A. Bhatti, I. Gutman, A. Ali, T. Alraqad, H. Saber (24 XI 2024)
On trees with a given number of vertices of fixed degree and their bond incident degree indices
Axioms, in press.
1528. I. Gutman, I. Redžepović, G. Özkun Kızıllırmak, V. R. Kulli (7 X 2024)
Euler-Sombor index and its congeners
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles), in press.
1527. N. Dehgard, I. Gutman (20 VIII 2024)
Sharp bounds on general multiplicative Zagreb indices of trees
Discrete Mathematics Letters **14** (2024) 89–94.
1526. T. Alraqad, A. Alameri, M. Alsharafi, H. Louati, K. A. Aldwoah, H. Saber, I. Gutman (15 VIII 2024)
Analysis of octane isomer properties via topological descriptors of line graphs
Scientific Reports **14** (2024) #27159, 23 pp.
1525. S. Rabizadeh, M. Habibi, I. Gutman (26 VIII 2024)
Some notes on Sombor index of graphs
MATCH Communications in Mathematical and in Computer Chemistry **93** (2025) 853–859.
1524. H. S. Ramane, S. Y. Chowri, T. Shivaprasad, I. Gutman (22 VII 2024)
Energy of vertices of subdivision graphs
MATCH Communications in Mathematical and in Computer Chemistry **93** (2025) 701–711.
1523. Y. Alizadeh, I. Gutman, S. Nosratollahi, Z Hussain (21 IV 2024)
On relations between distance-based topological indices
MATCH Communications in Mathematical and in Computer Chemistry **93** (2025) 509–520.
1522. A. Ali, I. Gutman, B. Furtula, I. Redžepović, T. Došlić, Z. Raza (16 IV 2024)
Extremal results and bounds for atom-bond sum-connectivity index: A survey
MATCH Communications in Mathematical and in Computer Chemistry **92** (2024) 271–314.
1521. A. Harshitha, S. D'Souza, S. Nayak, I. Gutman (19 III 2024)
Seidel energy of a graph with self-loops
Communications in Combinatorics and Optimization, in press.
1520. I. Gutman, V. R. Kulli (10 III 2024)
Estimating the Gourava Sombor index
Scientific Publications of the State University of Novi Pazar. Series A: Applied Mathematics, Informatics & Mechanics **16** (2024) 47–52.
1519. A. Alameri, I. Gutman, V. R. Kulli, A. Ayache, M. Alsharafi (I 2024)
Chemical applications on general Zagreb indices of composite graphs
International Journal of Mathematics and Computer Research **13**(3) (2024) 4114–4118.
1518. C. Espinal, I. Gutman, J. Rada (25 I 2024)
Elliptic Sombor index of chemical graphs
Communications in Combinatorics and Optimization, in press.
1517. I. Gutman (20 I 2024)
Relating Sombor and Euler indices
Military Technical Courier **72** (2024) 1–12.

1516. S. Pirzada, B. A. Rather, K. C. Das, Y. Shang, I. Gutman (4 I 2024)
On spectrum of Sombor matrix and Sombor energy of graphs
Georgian Mathematical Journal, in press.
1515. I. Gutman, I. Redžepović, S. Pantović (28 XII 2023)
Note on some new (n, m) -type bounds for graph energy
MATCH Communications in Mathematical and in Computer Chemistry **91** (2024) 797–803.
1514. I. Gutman, B. Furtula, M. S. Oz (9 XII 2023)
Geometric approach to vertex-degree-based topological indices – Elliptic Sombor index, theory and application
International Journal of Quantum Chemistry **124**(2) (2024) #e27346, 10 pp.
1513. I. Gutman, V. R. Kulli, I. Redžepović (24 XI 2023)
Irregularity Sombor index
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **156** (2023) 31–37.
1512. E. Azjargal, B. Horoldagva, I. Gutman (22 XI 2023)
Minimum of product of Wiener and Harary indices
MATCH Communications in Mathematical and in Computer Chemistry **92** (2024) 65–71.
1511. I. Gutman (5 XI 2023)
Improved estimates of Sombor index
Iranian Journal of Mathematical Chemistry **15** (2024) 1–5.
1510. A. Ayache, I. Gutman, A. Alameri, A. Ghallab (22 X 2023)
General Zagreb indices of composite graphs
Electronic Journal of Mathematics **6** (2023) 66–81.
1509. L. Alex, I. Gutman (15 X 2023)
On the inverse Mostar index problem for molecular graphs
Transactions on Combinatorics **14** (2025) 65–77.
1508. L. Buyantogtokh, B. Horoldagva, I. Gutman (12 X 2023)
On minimum generalized ABC index of graphs
Filomat **38** (2024) 6639–6650.
1507. I. Gutman (14 VIII 2023)
On vertex and edge degree-based topological indices
Military Technical Courier bf 71 (2023) 855–863.
1506. A. Ali, I. Gutman, I. Redžepović, J. P. Mazarodze, A. M. Albalahi, A. E. Hamza (5 VIII 2023)
On the difference of atom-bond sum-connectivity and atom-bond-connectivity indices
MATCH Communications in Mathematical and in Computer Chemistry **91** (2024) 725–740.
1505. I. Gutman, B. Furtula, I. Redžepović (15 VII 2023)
On topological indices and their reciprocals
MATCH Communications in Mathematical and in Computer Chemistry **91** (2024) 287–297.
1504. M. K. Jamil, S. Anwar, M. Azeem, M. K. I. Gutman (19 VI 2023)
Intuitionistic fuzzy Sombor indices: A novel approach for improving the performance of vaccination centers
Communications in Combinatorics and Optimization, in press
1503. A. Ali, B. Furtula, I. Gutman (10 VI 2023)
Inverse sum indeg index: Bounds and extremal results
Rocky Mountain Journal of Mathematics, in press.
1502. V. R. Kulli, I. Gutman, B. Furtula, I. Redžepović (1 VI 2023)
Sombor, nirmala, Dharwad, and F-Sombor indices – A comparative study
SSRG International Journal of Applied Chemistry **10**(2) (2023) 7–10.

1501. A. P. Narke, P. P. Malavadkar, M. M. Shikare, I. Gutman (25 V 2023)
On path-equienenergetic graphs
Bulletin of International Mathematical Virtual Institute **13** (2023) 233–237.
1500. I. Gutman, I. Redžepović, B. Furtula (22 V 2023)
On the product of Sombor and modified Sombor indices
Open Journal of Applied Discrete Mathematics **6**(2) (2023) 1-6.
1499. I. Gutman (23 IV 2023)
Note on temperature Sombor index
Military Technical Courier **71** (2023) 507–515.
1498. R. Tejaskumar, A. M. Ismayil, I. Gutman (15 IV 2023)
Minimum eccentric dominating energy of graphs
International Journal of Mathematics Trends and Technology **69**(6) (2023) 31–38.
1497. I. Sarkar, N. Manjunath, I. Gutman (21 III 2023)
Extremal reformulated forgotten index of trees, unicyclic and bicyclic graphs
Filomat **38** (2024) 25–32.
1496. A. Ali, I. Gutman, I. Redžepović, A. M. Albalahi, Z. Raza, A. E. Hamza (16 III 2023)
Symmetric division deg index: Extremal results and bounds
MATCH Communications in Mathematical and in Computer Chemistry **90** (2023) 263–299.
0000. S. Hayat, M. Arshad, I. Gutman (25 I 2023)
Proofs to some open problems on the maximum Sombor index of graphs
Computational and Applied Mathematics **42**(6) (2023) #279 (11 pp).
1495. P. Wei, M. Liu, I. Gutman (16 I 2023)
On (exponential) bond incident degree indices of graphs
Discrete Applied Mathematics **336** (2023) 141–147.
1494. I. Sarkar, N. Manjunath, I. Gutman (6 I 2023)
On transformed graphs
South East Asian Journal of Mathematics and Mathematical Sciences **19**(2) (2023) 179–202.
1493. S. Arumugam, A. K. Bhat, I. Gutman, M. P. Karantha, R. Poojary (2022)
Nullity of graphs – A survey and some new results
in the book: R. B. Bapat, M. P. Karantha, S. J. Kirkland, S. K. Neogy, S. Pati, S. Puntanen (Eds.), *Applied Linear Algebra, Probability and Statistics*, Springer, Singapore, 2023, pp. 155–175.
1492. R. Poojary, A. K. Bhat, M. P. Karantha, S. Arumugam, I. Gutman (9 XII 2022)
Characterizing graphs with nullity $n - 4$
MATCH Communications in Mathematical and in Computer Chemistry **89** (2023) 631–642.
1491. I. Gutman (27 XI 2022)
On spectral radius of VDB graph matrices
Military Technical Courier **71** (2023) 1–8.
1490. K. J. Gowtham, I. Gutman (25 XI 2022)
On the difference between atom-bond sum-connectivity and sum-connectivity indices
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **155** (2022) 55–65.
1489. A. Velusamy, R. R. Iyer, I. Gutman (22 X 2022)
On topological indices of jump graphs
Bulletin of International Mathematical Virtual Institute **12** (2022) 513–518.
1488. Z. Luo, K. Xu, A. S. Çevik, I. Gutman (28 IX 2022)
Average size of independent sets in unicyclic graphs
Contributions to Mathematics **7** (2023) 1–10.

1487. A. Ali, I. Gutman, I. Redžepović (23 IX 2022)
Atom-bond sum-connectivity index of unicyclic graphs and some applications
Electronic Journal of Mathematics **5** (2023) 1–7.
1486. A. Ghalavand, I. Gutman, M. Tavakoli (23 VIII 2022)
Irregularity measure of graphs
Journal of Mathematics **2023** (2023) #4891183 (5 pp).
1485. V. R. Kulli, I. Gutman (20 VIII 2022)
Sombor and KG-Sombor indices of benzenoid systems and phenylenes
Annals of Pure and Applied Mathematics **26**(2) (2022) 49–53.
1484. I. Gutman, I. Redžepović, V. R. Kulli (27 VII 2022)
KG-Sombor index of Kragujevac trees
Open Journal of Discrete Applied Mathematics **5**(2) (2022) 19–25.
1483. N. Manjunath, I. Sarkar, I. Gutman (28 VI 2022)
Bounds on Sombor index for corona products on R-graphs
Communications in Combinatorics and Optimization **9** (2024) 101–117.
1482. I. Gutman (18 VI 2022)
Sombor indices – back to geometry
Open Journal of Discrete Applied Mathematics **5**(2) (2022) 1–5.
1481. A. Ali, B. Furtula, I. Redžepović, I. Gutman (8 V 2022)
Atom–bond sum-connectivity index
Journal of Mathematical Chemistry **60** (2022) 2081–2093.
1480. V. R. Kulli, N. Harish, B. Chaluvaraju, I. Gutman (17 IV 2022)
Mathematical properties of KG Sombor index
Bulletin of International Mathematical Virtual Institute **12** (2022) 379–386.
1479. A. K. Nandi, I. Gutman, S. K. Nath (20 III 2022)
On color matrix and energy of semigraphs
Iranian Journal of Mathematical Chemistry **13** (2022) 291–299.
1478. S. Dorjsembe, L. Buyantogtokh, I. Gutman, B. Horoldagva, T. Réti (4 III 2022)
Irregularity of graphs
MATCH Communications in Mathematical and in Computer Chemistry **89** (2023) 371–388.
1477. N. N. Swamy, T. Manohar, B. Sooryanarayana, I. Gutman (13 II 2022)
Reverse Sombor index
Bulletin of International Mathematical Virtual Institute **12** (2022) 267–272.
1476. I. Gutman (4 II 2022)
TEMO theorem for Sombor index
Open Journal of Discrete Applied Mathematics **5**(1) (2022) 25–28.
1475. V. R. Kulli, I. Gutman (2 II 2022)
Revan Sombor index
Journal of Mathematics and Informatics **22** (2022) 23–27.
1474. I. Gutman, I. Redžepović (28 I 2022)
Sombor energy and Hückel rule
Discrete Mathematics Letters **9** (2022) 67–71.
1473. C. Yang, Y. Mao, I. Gutman, Q. Tong (25 I 2022)
On the Lanzhou index of graphs
Journal of Algebra, Combinatorics, Discrete Structures and Applications **10**(3) (2023) 131–147.
1472. I. Gutman, N. K. Gürsoy, A. Gürsoy, A. Ülker (30 XII 2021)
New bounds on Sombor index
Communications in Combinatorics and Optimization **8** (2023) 305–311.

1471. I. Gutman (27 XII 2021)
Estimating vertex–degree–energies
Military Technical Courier **70** (2022) 13–23.
1470. R. Cruz, I. Gutman, J. Rada (19 XII 2021)
Hosoya index of VDB-weighted graphs
Discrete Applied Mathematics **317** (2022) 18–25.
1469. T. Réti, A. Ali, I. Gutman (13 XII 2021)
On bond-additive and atoms-pair-additive indices of graphs
Electronic Journal of Mathematics **2** (2021) 52–61.
1468. I. Gutman, I. Redžepović, J. Rada (6 XII 2021)
Relating energy and Sombor energy
Contributions to Mathematics **4** (2021) 41–44.
1467. I. Redžepović, I. Gutman (3 XII 2021)
Comparing energy and Sombor energy – an empirical study
MATCH Communications in Mathematical and in Computer Chemistry **88** (2022) 133–140.
1466. H. Liu, I. Gutman, L. You, Y. Huang (29 XI 2021)
Sombor index: Review of extremal results and bounds
Journal of Mathematical Chemistry **60** (2022) 771–798.
1465. H. S. Ramane, I. Gutman, K. Bhajantri, D. V. Kitturmath (30 X 2021)
Sombor index of some graph transformations
Communications in Combinatorics and Optimization **8** (2023) 193–205.
1464. K. J. Gowtham, I. Gutman (1 X 2021)
On characteristic polynomial and energy of Sombor matrix
Open Journal of Discrete Applied Mathematics **4**(3) (2021) 29–35.
1463. A. Ülker, A. Gürsoy, N. K. Gürsoy, I. Gutman (29 VIII 2021)
Relating graph energy and Sombor index
Discrete Mathematics Letters **8** (2022) 6–9.
1462. I. Gutman, J. Monsalve, J. Rada (23 VIII 2021)
A relation between a vertex-degree-based topological index and its energy
Linear Algebra and Its Applications **636** (2022) 134–142.
1461. I. Gutman, I. Redžepović, B. Furtula, A. M. Sahal, (2 VIII 2021)
Energy of graphs with self-loops
MATCH Communications in Mathematical and in Computer Chemistry **87** (2022) 645–652.
1460. A. Ali, I. Gutman, H. Saber, A. M. Alanazi (30 VII 2021)
On bond incident indices of (n, m) -graphs
MATCH Communications in Mathematical and in Computer Chemistry **87** (2022) 89–96.
1459. S. K. Nath, I. Gutman, A. K. Nandi (12 VII 2021)
Distance matrix and energy of semigraph
Bulletin of International Mathematical Virtual Institute **11** (2021) 597–603.
1458. I. Gutman (16 VI 2021)
Sombor index – one year later
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **153** (2020) 43–55.
1457. I. Gutman, V. R. Kulli, I. Redžepović (4 VI 2021)
Nirmala index of Kragujevac trees
International Journal of Mathematics Trends and Technology **67**(6) (2021) 44–49.

1456. I. Gutman, V. R. Kulli, I. Redžepović (31 V 2021)
Sombor index of Kragujevac trees
Scientific Publications of the State University of Novi Pazar. Series A: Applied Mathematics, Informatics & Mechanics **13** (2021) 61–70.
1455. I. Gutman (12 V 2021)
Comparing degree-based energies of trees
Contributions to Mathematics **4** (2021) 1–5.
1454. I. Gutman (25 IV 2021)
Spectrum and energy of the Sombor matrix
Military Technical Courier **69** (2021) 551–561.
1453. I. Gutman (23 IV 2021)
Gutman index – a critical personal account
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **154** (2021) 183–193.
1452. I. Gutman, V. R. Kulli (18 IV 2021)
Nirmala energy
Open Journal of Discrete Applied Mathematics **4**(2) (2021) 11–16.
1451. V. R. Kulli, I. Gutman (17 IV 2021)
On some mathematical properties of Nirmala index
Annals of Pure and Applied Mathematics **23** (2021) 93–99.
1450. I. Gutman (11 IV 2021)
Computing the dependence of graph energy on nullity: The method of siblings
Discrete Mathematics Letters **7** (2021) 30–33.
1449. K. C. Das, I. Gutman (19 II 2021)
On Sombor index of trees
Applied Mathematics and Computation **412** (2022) #126575 (8 pp).
1448. I. Gutman (15 II 2021)
Relation between geometric–arithmetic and arithmetic–geometric indices
Journal of Mathematical Chemistry **59** (2021) 1520–1525.
1447. G. Indulal, L. Alex, I. Gutman (15 II 2021)
On graphs preserving PI index upon edge removal
Journal of Mathematical Chemistry **56** (2021) 1603–1609.
1446. I. Gutman (13 II 2021)
Some less familiar properties of Randić index
Croatica Chemica Acta **93** (2020) 273–278.
1445. V. R. Kulli, I. Gutman (1 II 2021)
Computation of Sombor indices of certain networks
SSRG International Journal of Applied Chemistry **8**(1) (2021) 1–5.
1444. I. Gutman (24 I 2021)
Graph energy and nullity
Open Journal of Discrete Applied Mathematics **4**(1) (2021) 25–28.
1443. V. R. Kulli, I. Gutman (7 I 2021)
 (a, b) -KA indices of benzenoid systems and phenylenes: The general case
International Journal of Mathematics Trends and Technology **67**(1) (2021) 17–20.
1442. G. Lekishvili, M. Gverdtsiteli, I. Gutman
RNB-matricis determinantis logarit'mis c'armodgena unishno laplasianis funqciis sakhit': 1. Funqciuri jgufebis c'vlili [On the logarithm of the determinant of the ANB-matrix as a function of the signless Laplacian: 1. Contributions of functional groups]
Journal of the Georgian Chemical Society **1** (2021) 46–51.

1441. Z. Wang, Y. Mao, I. Gutman, J. Wu, Q. Ma (17 XII 2020)
Spectral radius and energy of Sombor matrix of graphs
Filomat **35** (2021) 5093–5100.
1440. I. Gutman (16 XII 2020)
Some basic properties of Sombor indices
Open Journal of Discrete Applied Mathematics **4**(1) (2021) 1–3.
1439. R. Cruz, I. Gutman, J. Rada (15 XI 2020)
Sombor index of chemical graphs
Applied Mathematics and Computation **399** (2021) #126018 (9 pp).
1438. I. Gutman (29 X 2020)
Geometric approach to degree-based topological indices: Sombor indices
MATCH Communications in Mathematical and in Computer Chemistry **86** (2021) 11–16.
1437. K. X. Xu, K. C. Das, I. Gutman, M. L. Wang (6 X 2020)
Comparison between Merrifield–Simmons index and Wiener index of graphs
Acta Mathematica Sinica, English Series bf 38 (2022) 2220–2230.
1436. K. C. Das, I. Gutman (5 X 2020)
Upper bounds on distance energy
MATCH Communications in Mathematical and in Computer Chemistry **86** (2021) 611–620.
1435. K. C. Das, Y. Mao, I. Gutman (27 IX 2020)
On distance-based graph invariants
MATCH Communications in Mathematical and in Computer Chemistry **86** (2021) 375–393.
1434. A. Shukur, I. Gutman (25 IX 2020)
Energy of monad graphs
Bulletin of International Mathematical Virtual Institute **11** (2021) 261–268.
1433. I. Gutman (21 VIII 2020)
Relating graph energy with vertex-degree-based energies
Military Technical Courier **68** (2020) 715–725.
1432. I. Gutman (6 VIII 2020)
Degree-and-distance-based topological indices
Revue Roumaine de Chimie **66** (2021) 119–123.
1431. H. S. Ramane, K. Ashoka, B. Parvathalu, D. Patil, I. Gutman (13 VII 2020)
On complementary equienergetic strongly regular graphs
Discrete Mathematics Letters bf 4 (2020) 50–55.
1430. A. Ali, B. Furtula, I. Gutman, D. Vukičević (29 V 2020)
Augmented Zagreb index: Extremal results and bounds
MATCH Communications in Mathematical and in Computer Chemistry **85** (2021) 211–244.
1429. I. Gutman, S. Filipovski, R. Jajcay (26 IV 2020)
Variations on McClelland’s bound for graph energy
Discrete Mathematics Letters **3** (2020) 57–60.
1428. I. Gutman, M. R. Oboudi (4 IV 2020)
Bounds on graph energy
Discrete Mathematics Letters **4** (2020) 1–4.
1427. I. Gutman (17 III 2020)
Two Laplacian energies and the relations between them
Military Technical Courier **68** (2020) 207–215.
1426. S. Akbari, M. Ghahremani, I. Gutman, F. Koorepazan–Moftakhar (16 III 2020)
Orderenergetic graphs
MATCH Communications in Mathematical and in Computer Chemistry **84** (2020) 325–343.

1425. I. Gutman, H. Ramane (2 III 2020)
 Research on graph energies in 2019
MATCH Communications in Mathematical and in Computer Chemistry **84** (2020) 277–292.
1424. I. Redžepović, B. Furtula, I. Gutman (12 I 2020)
 Relating total π -electron energy of benzenoid hydrocarbons with HOMO and LOMO energies
MATCH Communications in Mathematical and in Computer Chemistry **84** (2020) 229–237.
1423. G. Su, L. Xu, Z. Chen, I. Gutman (2 I 2020)
 Reformulated reciprocal product–degree distance
MATCH Communications in Mathematical and in Computer Chemistry **85** (2021) 441–460.
1422. I. Gutman (15 XII 2019)
 Cycle energy and its size dependence
Discrete Applied Mathematics **284** (2020) 534–537.
1421. I. Gutman (1 XII 2019)
 New bounds for Laplacian energy
Military Technical Courier **68** (2020) 1–7.
1420. I. Gutman (3 XI 2019)
 Oboudi-type bounds for graph energy
Mathematics Interdisciplinary Research **4** (2019) 151–155.
1419. I. Gutman, I. Redžepović, B. Furtula (21 X 2019)
 Two stability criteria for benzenoid hydrocarbons and their relation
Croatica Chemica Acta **92** (2019) 473–475.
1418. I. Gutman, B. Furtula (27 IX 2019)
 Graph energies and their applications
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **152** (2019) 29–45.
1417. I. Gutman, B. Furtula (V 2019)
Energies of Graphs – Survey, Census, Bibliography
 Center for Scientific Research, Kragujevac, 2019, pp. 154.
1416. U. Hayat, M. Umer, I. Gutman, B. Davvaz, Á. Nolla de Celis (16 V 2019)
 A novel method to construct NSSD molecular graphs
Open Mathematics **17** (2019) 1526–1537.
1415. B. Furtula, I. Gutman, M. Matejić, E. Milovanović, I. Milovanović (9 II 2019)
 Some new lower bounds for augmented Zagreb index
Journal of Applied Mathematics and Computing **61** (2019) 405–415.
1414. R. B. Jummannaver, I. Gutman, R. A. Mundewadi (13 VII 2018)
 On Zagreb indices and coindices of cluster graphs
Bulletin of International Mathematical Virtual Institute **8** (2018) 477–485.
1413. I. Gutman (11 VII 2018)
 Topological indices and irregularity measures
Bulletin of International Mathematical Virtual Institute **8** (2018) 469–475.
1412. H. Abdo, D. Dimitrov, I. Gutman (9 VII 2018)
 Graph irregularity and its measures
Applied Mathematics and Computation **357** (2019) 317–324.
1411. Z. Shao, I. Gutman, Z. Li, S. Wang, P. Wu (1 VII 2018)
 Leap Zagreb indices of trees and unicyclic graphs
Communications in Combinatorics and Optimization **3** (2018) 179–194.

1410. I. Gutman, J. M. Rodríguez, J. M. Sigarreta (26 VI 2018)
Linear and non-linear inequalities on the inverse sum indeg index
Discrete Applied Mathematics **258** (2019) 123–134.
1409. H. S. Ramane, S. Y. Talwar, I. Gutman (5 VI 2018)
Zagreb indices and coindices of total graph, semi-total point graph and semi-total line graph of subdivision graphs
Mathematics Interdisciplinary Research **5** (2020) 1–12.
1408. S. Akbari, A. H. Ghodrati, I. Gutman, M. A. Hosseinzadeh, E. V. Konstantinova (4 VI 2018)
On path energy of graphs
MATCH Communications in Mathematical and in Computer Chemistry **81** (2019) 465–470.
1407. K. C. Das, I. Gutman (28 V 2018)
Comparing Laplacian energy and Kirchhoff index
MATCH Communications in Mathematical and in Computer Chemistry **81** (2019) 419–427.
1406. A. Yurtas, M. Togan, V. Loksha, I. N. Cangul, I. Gutman (27 V 2018)
Inverse problem for Zagreb indices
Journal of Mathematical Chemistry **57** (2019) 609–615.
1405. I. Gutman, M. Asciglu, I. N. Cangul (23 IV 2018)
Multiplicative geometric–arithmetic index
International Journal of Applied Graph Theory **2**(2) (2018) 16–28.
1404. A. Ali, L. Zhong, I. Gutman (14 IV 2018)
Harmonic index and its generalizations: Extremal results and bounds
MATCH Communications in Mathematical and in Computer Chemistry **81** (2019) 249–311.
1403. I. Gutman, M. Matejić, E. Milovanović, I. Milovanović (9 III 2018)
Lower bounds for inverse sum index index of graphs
Kragujevac Journal of Mathematics **44** (2020) 551–562.
1402. A. Ghalavand, A. Ashrafi, I. Gutman (6 III 2018)
New upper and lower bounds for some degree–based graph invariants
Kragujevac Journal of Mathematics **44** (2020) 181–188.
1401. I. Gutman, T. Réti (23 II 2018)
Note on irregular graphs
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **151** (2018) 5–16.
1400. V. Mathad, S. I. Khalaf, S. S. Mahde, I. Gutman (13 II 2018)
Average degree–eccentricity energy of graphs
Mathematics Interdisciplinary Research **3**(3) (2018) 45–54.
1399. Y. Ma, S. Cao, Y. Shi, I. Gutman, M. Dehmer, B. Furtula (11 II 2018)
From the connectivity index to various Randić–type descriptors
MATCH Communications in Mathematical and in Computer Chemistry **80** (2018) 85–106.
1398. K. Xu, X. Gu, I. Gutman (10 II 2018)
Relations between total irregularity and non-self-centrality of graphs
Applied Mathematics and Computation **337** (2018) 461–468.
1397. H. Hua, I. Gutman, H. Wang, K. C. Das (8 II 2018)
Relationships between some distance–based topological indices
Filomat **32** (2018) 5809–5815.
1396. B. Furtula, K. C. Das, I. Gutman (3 II 2018)
Comparative analysis of symmetric division deg index as potentially useful molecular descriptor
International Journal of Quantum Chemistry **118** (2018) 1–14.

1395. H. Hua, I. Gutman, H. Wang (26 I 2018)
Comparing eccentricity-based graph invariants
Discussiones Mathematicae Graph Theory **40** (2020) 1111–1125.
1394. A. Ghalavand, A. R. Ashrafi, I. Gutman (5 I 2018)
Extremal graphs for the second multiplicative Zagreb index
Bulletin of International Mathematical Virtual Institute **8** (2018) 369–383.
1393. K. C. Das, I. Gutman, I. Milovanović, E. Milovanović, B. Furtula (21 XII 2017)
Degree-based energies of graphs
Linear Algebra and Its Applications **554** (2018) 185–204.
1392. H. Abdo, D. Dimitrov, I. Gutman (30 XI 2017)
Graphs with maximal σ irregularity
Discrete Applied Mathematics **250** (2018) 57–64.
1391. K. C. Das, I. Gutman (28 XI 2017)
On Laplacian energy, Laplacian-energy-like invariant and Kirchhoff index of graphs
Linear Algebra and Its Applications **554** (2018) 170–184.
1390. B. Sharada, M. I. Sowaity, I. Gutman (19 XI 2017)
Laplacian sum-eccentricity energy of a graph
Mathematics Interdisciplinary Research **2** (2017) 209–219.
1389. A. Ali, I. Gutman, E. Milovanović, I. Milovanović (18 XI 2017)
Sum of powers of the degrees of graphs: Extremal results and bounds
MATCH Communications in Mathematical and in Computer Chemistry **80** (2018) 5–84.
1388. X. Li, W. So, I. Gutman (1 XI 2017)
Constructions of graphs and trees with partially prescribed spectrum
MATCH Communications in Mathematical and in Computer Chemistry **80** (2018) 415–421.
1387. H. S. Ramane, I. Gutman, J. B. Patil, R. B. Jummannaver (20 X 2017)
Seidel signless Laplacian energy of graphs
Mathematics Interdisciplinary Research **2** (2017) 181–192.
1386. I. Gutman, E. Milovanović, I. Milovanović (18 IX 2017)
Beyond the Zagreb indices
AKCE International Journal of Graphs and Combinatorics **17** (2020) 74–85.
1385. M. Arockiaraj, S. R. J. Kavitha, K. Balasubramanian, I. Gutman (13 IX 2017)
Hyper-Wiener and Wiener polarity indices of silicate and oxide frameworks
Journal of Mathematical Chemistry **56** (2018) 1493–1510.
1384. I. Gutman (27 VIII 2017)
Stepwise irregular graphs
Applied Mathematics and Computation **325** (2018) 234–238.
1383. H. S. Ramane, R. B. Jummannaver, I. Gutman (11 VIII 2017)
Seidel Laplacian energy of graphs
International Journal of Applied Graph Theory **1**(2) (2017) 74–82.
1382. I. Gutman, M. Togan, A. Yurttas, A. S. Cevik, I. N. Cangul (1 VIII 2017)
Inverse problem for sigma index
MATCH Communications in Mathematical and in Computer Chemistry **79** (2018) 491–508.
1381. I. Gutman, I. Milovanović, E. Milovanović (20 VII 2017)
Relations between ordinary and multiplicative degree-based topological indices
Filomat **32** (2018) 3031–3042.
1380. C. Xu, L. Ge, Y. Zhang, M. Dehmer, I. Gutman (14 VII 2017)
Computational prediction of therapeutic peptides based on graph index
Journal of Biomedical Informatics **75** (2017) 63–69.

1379. N. Jafari Rad, A. Jahanbani, I. Gutman (10 VII 2017)
Zagreb energy and Zagreb Estrada index of graphs
MATCH Communications in Mathematical and in Computer Chemistry **79** (2018) 371–386.
1378. I. Gutman, B. Furtula (15 VI 2017)
The total π -electron energy saga
Croatica Chemica Acta **90** (2017) 359–368.
1377. A. M. Naji, N. D. Soner, I. Gutman (30 V 2017)
On leap Zagreb indices of graphs
Communications in Combinatorics and Optimization **2** (2017) 99–117.
1376. I. Gutman, B. Furtula, V. Katanić (24 V 2017)
Randić index and information
AKCE International Journal of Graphs and Combinatorics **15** (2018) 307–312.
1375. B. Furtula, I. Gutman (23 V 2017)
Borderenergetic graphs of order 12
Iranian Journal of Mathematical Chemistry **8** (2017) 339–343.
1374. I. Gutman (26 IV 2017)
General theory of cycle-dependence of total π -electron energy
Iranian Journal of Mathematical Chemistry **9** (2018) 9–16.
1373. M. M. Shikare, P. P. Malavadar, S. C. Patekar, I. Gutman (12 IV 2017)
On path eigenvalues and path energy of graphs
MATCH Communications in Mathematical and in Computer Chemistry **79** (2018) 387–398.
1372. I. Gutman (31 III 2017)
On borderenergetic graphs
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **150** (2017) 9–18.
1371. Y. Gao, E. Zhu, Z. Shao, I. Gutman, A. Klobučar (8 III 2017)
Total domination and open packing in some chemical graphs
Journal of Mathematical Chemistry **56** (2018) 1481–1492.
1370. I. Gutman, V. R. Kulli, B. Chaluvvaraju, H. S. Boregowda (1 II 2017)
On Bhanhatti and Zagreb indices
Journal of International Mathematical Virtual Institute **7** (2017) 53–67.
1369. I. Gutman (11 I 2017)
On two Laplacian-spectrum-based graph invariants and their relation. A review
Applied and Computational Mathematics **16** (2017) 3–11.
1368. Z. Shao, P. Wu, Y. Gao, I. Gutman, X. Zhang (4 I 2017)
On the maximum *ABC* index of graphs without pendent vertices
Applied Mathematics and Computation **315** (2017) 298–312.
1367. B. Borovićanin, K. C. Das, B. Furtula, I. Gutman (3 I 2017)
Bounds for Zagreb indices
MATCH Communications in Mathematical and in Computer Chemistry **78** (2017) 17–100.
1366. I. Gutman, Z. You, M. Huang (30 XII 2016)
Inequalities between Kirchhoff index and Laplacian-energy-like invariant
in the book: I. Gutman, B. Furtula, K. C. Das, E. Milovanović, I. Milovanović (Eds.), *Bounds in Chemical Graph Theory – Mainstreams*, Univ. Kragujevac, Kragujevac, 2017, pp. 83–92.
1365. I. Gutman (29 XII 2016)
Relation between energy and extended energy of a graph
International Journal of Applied Graph Theory **1**(1) (2017) 42–48.

1364. I. Ž. Milovanović, E. I. Milovanović, I. Gutman, B. Furtula (26 XII 2016)
Some inequalities for the forgotten topological index
International Journal of Applied Graph Theory **1**(1) (2017) 1–15.
1363. K. C. Das, S. Balachandran, I. Gutman (8 XII 2016)
Inverse degree, Randić index and harmonic index of graphs
Applicable Analysis and Discrete Mathematics **11** (2017) 304–313.
1362. I. Gutman, B. Furtula, K. C. Das (5 XII 2016)
Extended energy and its dependence on molecular structure
Canadian Journal of Chemistry **95** (2017) 526–529.
1361. S. Radenković, I. Gutman, S. Zdravković, M. Antić (28 XI 2016)
Strain in strain-free benzenoid hydrocarbons: The case of fibonacenes
Chemical Papers **71** (2017) 1491–1495.
1360. I. Gutman (27 XI 2016)
On coindices of graphs and their complements
Applied Mathematics and Computation **305** (2017) 161–165.
1359. I. Gutman (25 XI 2016)
On hyper-Zagreb index and coindex
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **150** (2017) 1–8.
1358. L. Yu, Y. Zhang, I. Gutman, Y. Shi, M. Dehmer (21 XI 2016)
Protein sequence comparison based on physicochemical properties and the position–feature energy matrix
Nature – Scientific Reports **7** (2017) #46237 (8 pp).
1357. B. Borovićanin, K. C. Das, B. Furtula, I. Gutman (12 XI 2016)
Zagreb indices: Bounds and extremal graphs
in the book: I. Gutman, B. Furtula, K. C. Das, E. Milovanović, I. Milovanović (Eds.), *Bounds in Chemical Graph Theory – Basics*, Univ. Kragujevac, Kragujevac, 2017, pp. 67–153.
1356. I. Gutman, B. Furtula, A. Farrugia, I. Sciriha (22 IX 2016)
Constructing NSSD molecular graphs
Croatica Chemica Acta **89** (2016) 449–454.
1355. I. Gutman, S. Li, W. Wei (10 IX 2016)
Cacti with n -vertices and t cycles having extremal Wiener index
Discrete Applied Mathematics **232** (2017) 189–200.
1354. M. Zhang, S. Li, I. Gutman (9 IX 2016)
Connectivity, diameter, independence number and the distance spectral radius of graphs
Linear Algebra and Its Applications **529** (2017) 30–50.
- | |
|--|
| <p>I. Gutman (VIII 2016)
1353. <i>Selected Theorems in Chemical Graph Theory</i>
Faculty of Science & University, Kragujevac, 2017, pp. VII+168.</p> |
|--|
1352. I. Gutman, N. Dehgard, H. Aram (18 VIII 2016)
On general first Zagreb index of graphs with fixed maximum degree
Bulletin of International Mathematical Virtual Institute **6** (2016) 251–258.
1351. I. Gutman, K. C. Das, B. Furtula, E. Milovanović, I. Milovanović (10 VIII 2016)
Generalizations of Szókefalvi Nagy and Chebyshev inequalities with applications in spectral graph theory
Applied Mathematics and Computation **313** (2017) 235–244.
1350. K. C. Das, I. Gutman, B. Furtula (25 VI 2016)
On spectral radius and energy of extended adjacency matrix of graphs
Applied Mathematics and Computation **296** (2017) 116–123.

1349. K. C. Das, S. A. Mojallal, I. Gutman (12 VI 2016)
Relations between degrees, conjugate degrees and graph energies
Linear Algebra and Its Applications **515** (2017) 24–37.
1348. A. Cafure, D. A. Jaume, L. N. Grippo, A. Pastine, M. D. Safe, V. Trevisan, I. Gutman (10 VI 2016)
Some results for the (signless) Laplacian resolvent
MATCH Communications in Mathematical and in Computer Chemistry **77** (2017) 105–114.
1347. Y. Mao, Z. Wang, I. Gutman, A. Klobučar (7 VI 2016)
Steiner degree distance
MATCH Communications in Mathematical and in Computer Chemistry **78** (2017) 221–230.
1346. K. C. Das, S. Elumalai, I. Gutman (27 V 2016)
On *ABC* index of graphs
MATCH Communications in Mathematical and in Computer Chemistry **78** (2017) 459–468.
1345. K. C. Das, S. Sun, I. Gutman (23 V 2016)
Normalized Laplacian eigenvalues and Randić energy of graphs
MATCH Communications in Mathematical and in Computer Chemistry **77** (2017) 45–59.
1344. M. A. Boutiche, H. Belbachir, I. Gutman (12 V 2016)
Merrifield–Simmons and Hosoya index of thorn–regular graphs
Scientific Publications of the State University of Novi Pazar. Series A: Applied Mathematics, Informatics & Mechanics **8** (2016) 113–129.
1343. H. S. Ramane, V. V. Manjalapur, I. Gutman (10 V 2016)
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 **14** (2017) 92–100.
1342. Y. Mao, Z. Wang, I. Gutman, H. Li (7 V 2016)
Nordhaus–Gaddum–type results for the Steiner Wiener index of graphs
Discrete Applied Mathematics **219** (2017) 167–175.
1341. A. Hamzeh, A. Iranmanesh, S. Hossein–Zadeh, M. A. Hosseinzadeh, I. Gutman (3 V 2016)
On common neighborhood graphs II
Iranian Journal of Mathematical Chemistry **9** (2018) 37–46.
1340. I. Gutman, A. Ghalavand, T. Dehghan–Zadeh, A. R. Ashrafi (22 IV 2016)
Graphs with smallest forgotten index
Iranian Journal of Mathematical Chemistry **8** (2017) 259–273.
1339. I. Gutman, S. Radenković, S. Đorđević, I. Ž. Milovanović, E. I. Milovanović (5 IV 2016)
Extending the McClelland formula for total π -electron energy
Journal of Mathematical Chemistry **55** (2017) 1934–1940.
1338. R. Rasi, S. M. Sheikholeslami, I. Gutman (15 III 2016)
On harmonic index of trees
MATCH Communications in Mathematical and in Computer Chemistry **78** (2017) 405–416.
1337. I. Gutman, B. Furtula (14 III 2016)
Survey of graph energies
Mathematics Interdisciplinary Research **2** (2017) 85–129.
1336. I. Ž. Milovanović, E. I. Milovanović, I. Gutman (6 III 2016)
Upper bounds for some graph energies
Applied Mathematics and Computation **289** (2016) 435–443.

1335. I. Gutman, B. Furtula, K. C. Das (28 II 2016)
On some degree-and-distance-based graph invariants of trees
Applied Mathematics and Computation **289** (2016) 1–6.
1334. I. Gutman (26 II 2016)
On two degree-and-distance-based graph invariants
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **149** (2016) 21–31.
1333. I. Gutman, I. Gültekin, B. Şahin (15 II 2016)
On Merrifield–Simmons index of molecular graphs
Kragujevac Journal of Science **38** (2016) 83–95.
1332. I. Gutman (10 II 2016)
Irregularity of molecular graphs
Kragujevac Journal of Science **38** (2016) 71–81.
1331. B. Horoldagva, L. Buyantogtokh, S. Dorjsembe, I. Gutman (8 II 2016)
Maximum size of maximally irregular graphs
MATCH Communications in Mathematical and in Computer Chemistry **76** (2016) 81–98.
1330. I. Gutman, S. Radenković, S. Đorđević, I. Ž. Milovanović, E. I. Milovanović (3 II 2016)
Total π -electron and HOMO energy
Chemical Physics Letters **649** (2016) 148–150.
1329. S. Radenković, I. Gutman, S. Ružić, S. Zdravković (2 II 2016)
Strain in strain-free benzenoid hydrocarbons: The case of chrysene and triphenylene
Revue Roumaine de Chimie **61** (2016) 261–267.
1328. W. Liu, Q. Guo, Y. Zhang, L. Feng, I. Gutman (29 I 2016)
Further results on the largest matching root of unicyclic graphs
Discrete Applied Mathematics **221** (2017) 82–88.
1327. I. Gutman (11 I 2016)
On Steiner degree distance of trees
Applied Mathematics and Computation **283** (2016) 163–167.
1326. B. Deng, X. Li, I. Gutman (3 I 2016)
More on borderenergetic graphs
Linear Algebra and Its Applications **497** (2016) 199–208.
1325. L. Yu, Y. Zhang, G. Jian, I. Gutman (3 I 2016)
Classification for microarray data based on K -means clustering combined with modified single-to-noise-ratio based on graph energy
Journal of Computational and Theoretical Nanoscience **14** (2017) 598–606.
1324. Y. Mao, Z. Wang, I. Gutman (31 XII 2015)
Steiner Wiener index of graph products
Transactions on Combinatorics **5**(3) (2016) 39–50.
1323. L. E. Allem, J. Capaverde, V. Trevisan, I. Gutman, E. Zogić, E. Glogić (26 XII 2015)
Resolvent energy of unicyclic, bicyclic and tricyclic graphs
MATCH Communications in Mathematical and in Computer Chemistry **77** (2017) 95–104.
1322. K. C. Das, S. A. Mojallal, I. Gutman (22 XII 2015)
On energy of line graphs
Linear Algebra and Its Applications **499** (2016) 79–89.
1321. H. H. Li, Q. Q. Wu, I. Gutman (15 XII 2015)
On ordering of complements of graphs with respect to matching numbers
Applied Mathematics and Computation **282** (2016) 167–174.

1320. S. Gong, X. Li, I. Gutman, Z. Qin, K. Yang (20 XI 2015)
On the maximal energy of integral weighted trees with fixed total weight sum
MATCH Communications in Mathematical and in Computer Chemistry **76** (2016) 615–633.
1319. B. Furtula, I. Gutman, V. Katanić (18 XI 2015)
Three-center Harary index and its applications
Iranian Journal of Mathematical Chemistry **7** (2016) 61–68.
1318. J. Đurđević Nikolić, I. Gutman (10 XI 2015)
A comparative study of isomers of bicalicene
Polycyclic Aromatic Compounds bf 38 (2018) 25–31.
1317. I. Gutman (25 X 2015)
Total π -electron energy of conjugated molecules with non-bonding molecular orbitals
Zeitschrift für Naturforschung **71a** (2016) 161–164.
1316. B. Deng, S. Wang, I. Gutman (21 X 2015)
Resolvent Estrada index of cycles and paths
Scientific Publications of the State University of Novi Pazar. Series A: Applied Mathematics, Informatics & Mechanics **8** (2016) 1-10.
1315. I. Gutman, I. Triantafillou (27 IX 2015)
Dependence of graph energy on nullity. A case study
MATCH Communications in Mathematical and in Computer Chemistry **76** (2016) 761–769.
1314. H. Abdo, D. Dimitrov, I. Gutman (23 IX 2015)
On extremal trees with respect to the F -index
Kuwait Journal of Science **44**(3) (2017) 1–8.
1313. H. S. Ramane, G. A. Gudodagi, I. Gutman (22 IX 2015)
Laplacian energy of union and Cartesian product and Laplacian equienergetic graphs
Kragujevac Journal of Mathematics **39** (2015) 193–205.
1312. K. C. Das, S. A. Mojallal, I. Gutman (18 IX 2015)
On energy and Laplacian energy of bipartite graphs
Applied Mathematics and Computation **273** (2016) 759–766.
1311. X. Li, Y. Mao, I. Gutman (16 IX 2015)
Inverse problem on the Steiner Wiener index
Discussiones Mathematicae Graph Theory **38** (2018) 83–95.
1310. M. A. A. de Freitas, I. Gutman, M. Robbiano (5 IX 2015)
Graphs with maximum Laplacian–energy–like invariant and incidence energy
MATCH Communications in Mathematical and in Computer Chemistry **75** (2016) 331–342.
1309. B. Furtula, I. Gutman, K. C. Das (1 IX 2015)
On atom–bond connectivity molecular structure descriptors
Journal of the Serbian Chemical Society **81** (2016) 271–276.
1308. I. Gutman (20 VIII 2015)
Stability of bicalicene isomers – a topological study
Journal of the Serbian Chemical Society **81** (2016) 81–89.
1307. K. C. Das, M. A. Mohammed, I. Gutman, K. A. Atan (17 VIII 2015)
Comparison between atom–bond connectivity indices of graphs
MATCH Communications in Mathematical and in Computer Chemistry **76** (2016) 159–170.
1306. K. C. Das, I. Gutman (13 VIII 2015)
On Wiener and multiplicative Wiener indices of graphs
Discrete Applied Mathematics **206** (2016) 9–14.
1305. H. Chen, Y. Zhang, I. Gutman (9 VIII 2015)
A kernel–based clustering method for gene selection with gene expression data
Journal of Biomedical Informatics **62** (2016) 12–20.

1304. I. Gutman (VII 2015)
Matching energy
in the book: I. Gutman, X. Li (Eds.), *Graph Energies – Theory and Applications*, Univ. Kragujevac, Kragujevac, 2016, pp. 167–190.
1303. I. Gutman, B. Furtula, E. Zogić, E. Glogić (VII 2015)
Resolvent energy
in the book: I. Gutman, X. Li (Eds.), *Graph Energies – Theory and Applications*, Univ. Kragujevac, Kragujevac, 2016, pp. 277–290.
1302. I. Gutman (20 VII 2015)
A survey on the matching polynomial
in the book: Y. Shi, M. Dehmer, X. Li, I. Gutman (Eds.), *Graph Polynomials*, CRC Press, Boca Raton, 2016, pp. 77–99.
1301. K. C. Das, I. Gutman, M. J. Nadjafi–Arani (14 VII 2015)
Relations between distance–based and degree–based topological indices
Applied Mathematics and Computation **270** (2015) 142–147.
1300. M. Goubko, C. Magnant, P. Salehi Nowbandegani, I. Gutman (29 VI 2015)
ABC index of trees with fixed number of leaves
MATCH Communications in Mathematical and in Computer Chemistry **74** (2015) 697–701.
1299. I. Gutman, B. Furtula, E. Zogić, E. Glogić (8 VI 2015)
Resolvent energy of graphs
MATCH Communications in Mathematical and in Computer Chemistry **75** (2016) 279–290.
1298. I. Gutman (31 V 2015)
Open problems for equienergetic graphs
Iranian Journal of Mathematical Chemistry **6** (2015) 185–187.
1297. I. Gutman (27 V 2015)
Edge–decomposition of topological indices
Iranian Journal of Mathematical Chemistry **6** (2015) 103–108.
1296. S. Gong, X. Li, I. Gutman, G. Xu, Y. Tang, Z. Qin, K. Yang (12 V 2015)
On maximal energy of trees with fixed weight sequence
MATCH Communications in Mathematical and in Computer Chemistry **75** (2016) 267–278.
1295. B. Furtula, I. Gutman, Ž. Kovijanić Vukićević, G. Lekishvili, G. Popivoda (24 IV 2015)
On an old/new degree–based topological index
Bulletin de l’Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **148** (2015) 19–31.
1294. S. Pirzada, H. A. Ganie, I. Gutman (31 III 2015)
Comparison between Laplacian–energy–like invariant and Kirchhoff index
Electronic Journal of Linear Algebra **31** (2016) 27–41.
1293. B. Basavanagoud, I. Gutman, C. S. Gali (30 III 2015)
On second Zagreb index and coindex of some derived graphs
Kragujevac Journal of Science **37** (2015) 113–121.
1292. K. C. Das, S. A. Mojallal, I. Gutman (26 III 2015)
On Laplacian energy in terms of graph invariants
Applied Mathematics and Computation **268** (2015) 83–92.
1291. B. Basavanagoud, I. Gutman, V. R. Desai (13 III 2015)
Zagreb indices of generalized transformation graphs and their complements
Kragujevac Journal of Science **37** (2015) 99–112.
1290. I. Gutman, B. Furtula, X. Chen, J. Qian (2 III 2015)
Resolvent Estrada index – computational and mathematical studies
MATCH Communications in Mathematical and in Computer Chemistry **74** (2015) 431–440.

1289. I. Gutman, M. Robbiano, B. San Martín (28 II 2015)
Upper bound on Randić energy of some graphs
Linear Algebra and Its Applications **478** (2015) 241–255.
1288. H. S. Ramane, I. Gutman, M. M. Gundloor (15 II 2015)
Seidel energy of iterated line graphs of regular graphs
Kragujevac Journal of Mathematics **39** (2015) 7–12.
1287. I. Gutman, B. Furtula, X. Li (26 I 2015)
Multicenter Wiener indices and their applications
Journal of the Serbian Chemical Society **80** (2015) 1009–1017.
1286. S. Radenković, I. Gutman, S. Đorđević (22 I 2015)
Strain in strain-free benzenoid hydrocarbons: The case of phenanthrene
Chemical Physics Letters **625** (2015) 69–72.
1285. I. Gutman, J. Lu, M. A. Boutiche (14 I 2015)
On distance in complements of graphs
Scientific Publications of the State University of Novi Pazar. Series A: Applied Mathematics, Informatics & Mechanics **8** (2016) 35–42.
1284. I. Gutman, S. Radenković (12 I 2015)
Paradise lost – π -Electron conjugation in homologs and derivatives of perylene
in the book: R. Chauvin, C. Lepetit, B. Silvi, E. Alikhani (Eds.), *Applications of Topological Methods in Molecular Chemistry*, Springer, Cham, 2016, pp. 297–320.
1283. I. Gutman, B. Furtula, Ž. Kovijanić Vukićević, G. Popivoda (11 I 2015)
On Zagreb indices and coindices
MATCH Communications in Mathematical and in Computer Chemistry **74** (2015) 5–16.
1282. C. Magnant, P. Salehi Nowbandegani, I. Gutman (8 I 2015)
Which tree has the smallest ABC index among trees with k leaves?
Discrete Applied Mathematics **194** (2015) 143–146.
1281. X. Li, Y. Mao, I. Gutman (27 XII 2014)
The Steiner Wiener index of a graph
Discussiones Mathematicae Graph Theory **36** (2016) 455–465.
1280. H. S. Ramane, K. C. Nandeesh, I. Gutman, X. Li (19 XII 2014)
Skew equienergetic digraphs
Transactions on Combinatorics **5**(1) (2016) 15–23.
1279. S. Gong, X. Li, G. Xu, I. Gutman, B. Furtula (16 XII 2014)
Borderenergetic graphs
MATCH Communications in Mathematical and in Computer Chemistry **74** (2015) 321–332.
1278. X. Li, Z. Qin, M. Wei, I. Gutman, M. Dehmer (14 XII 2014)
Novel inequalities for generalized graph entropies – Graph energies and topological indices
Applied Mathematics and Computation **259** (2015) 470–479.
1277. I. Gutman, B. Furtula, X. Chen, J. Qian (2 XII 2014)
Graphs with smallest resolvent Estrada indices
MATCH Communications in Mathematical and in Computer Chemistry **73** (2015) 267–270.
1276. B. Furtula, I. Gutman (6 XI 2014)
A forgotten topological index
Journal of Mathematical Chemistry **53** (2015) 1184–1190.
1275. J. Du, G. Su, J. Tu, I. Gutman (6 XI 2014)
The degree resistance distance of cacti
Discrete Applied Mathematics **188** (2015) 16–24.

1274. S. Pirzada, H. A. Ganie, I. Gutman (13 X 2014)
On Laplacian–energy–like invariant and Kirchhoff index
MATCH Communications in Mathematical and in Computer Chemistry **73** (2015) 41–60.
1273. I. Gutman, L. C. Medina, P. Pizarro, M. Robbiano (9 IX 2014)
Graphs with maximum Laplacian and signless Laplacian Estrada index
Discrete Mathematics **339** (2016) 2664–2671.
1272. S. M. Hosamani, I. Gutman (3 IX 2014)
Zagreb indices of transformation graphs and total transformation graphs
Applied Mathematics and Computation **247** (2014) 1156–1160.
1271. I. Gutman (24 VIII 2014)
Altan derivatives of graphs
Iranian Journal of Mathematical Chemistry **5**(2) (2014) 85–90.
1270. I. Gutman (16 VIII 2014)
An exceptional property of the first Zagreb index
MATCH Communications in Mathematical and in Computer Chemistry **72** (2014) 733–740.
1269. S. Radenković, I. Gutman, M. Antić (31 VII 2014)
A case of breakdown of the Pauling bond order concept
Chemical Physics Letters **614** (2014) 104–109.
1268. I. Gutman, M. K. Jamil, N. Akhter (30 VII 2014)
Graphs with fixed number of pendent vertices and minimal first Zagreb index
Transactions on Combinatorics **4**(1) (2015) 43–48.
1267. H. Fatoorehchi, I. Gutman, H. Abolghasemi (19 VII 2014)
A combined technique for computation of energy–effect of cycles in conjugated molecules
Journal of Mathematical Chemistry **53** (2015) 1113–1125.
1266. I. Gutman (19 VI 2014)
Topological properties of altan–benzenoid hydrocarbons
Journal of the Serbian Chemical Society **79** (2014) 1515–1521.
1265. I. Gutman, E. A. Martins, M. Robbiano, B. San Martín (3 VI 2014)
Ky Fan theorem applied to Randić energy
Linear Algebra and Its Applications **459** (2014) 23–42.
1264. R. Cruz, I. Gutman, J. Rada (V 2014)
Topological indices of Kragujevac trees
Proyecciones Journal of Mathematics **33** (2014) 471–482.
1263. M. B. Ahmadi, D. Dimitrov, I. Gutman, S. A. Hosseini (26 V 2014)
Disproving a conjecture on trees with minimal atom–bond connectivity index
MATCH Communications in Mathematical and in Computer Chemistry **72** (2014) 685–698.
1262. G. Su, L. Xiong, I. Gutman, L. Xu (26 V 2014)
Reciprocal product–degree distance of graphs
Filomat **30** (2016) 2217–2231.
1261. Y. Su, Y. Zhang, W. Chen, I. Gutman (19 V 2014)
Nucleosome positioning based on information content
MATCH Communications in Mathematical and in Computer Chemistry **72** (2014) 551–562.
1260. I. Gutman (27 IV 2014)
Frank model with limited resources
Journal of Mathematical Chemistry **52** (2014) 2330–2333.
1259. I. Gutman (25 IV 2014)
On the origin of two degree–based topological indices
Bulletin de l'Académie Serbe des Sciences et des Arts (Classe des Sciences Mathématiques et Naturelles) **146** (2014) 39–52.

1258. I. Gutman (23 IV 2014)
Kragujevac trees and their energy
Scientific Publications of the State University of Novi Pazar. Series A: Applied Mathematics, Informatics & Mechanics **6** (2014) 71–79.
1257. G. Britto Antony Xavier, E. Suresh, I. Gutman (21 IV 2014)
Counting relations for general Zagreb indices
Kragujevac Journal of Mathematics **38** (2014) 95–103.
1256. A. Hamzeh, A. Iranmanesh, T. Réti, I. Gutman (3 IV 2014)
Chemical graphs constructed of composite graphs and their q -Wiener index
MATCH Communications in Mathematical and in Computer Chemistry **72** (2014) 807–823.
1255. I. Gutman, T. Réti (2 III 2014)
Zagreb group indices and beyond
International Journal of Chemical Modeling **6** (2014) 191–200.
also published in:
M. V. Putz (Ed.), *Advances in Chemical Modeling*, Vol. 6, Nova, New York, 2016, as Chapter 20.
1254. I. Gutman, E. Milovanović, I. Milovanović (24 II 2014)
Bounds for Laplacian-type graph energies
Miskolc Mathematical Notes **16** (2015) 195–203.
1253. K. C. Das, S. Sorgun, I. Gutman (17 II 2014)
On Randić energy
MATCH Communications in Mathematical and in Computer Chemistry **73** (2015) 81–92.
1252. I. Gutman (14 II 2014)
Topological resonance energy 40 years later
International Journal of Chemical Modeling **6** (2014) 177–189.
also published in:
M. V. Putz (Ed.), *Advances in Chemical Modeling*, Vol. 6, Nova, New York, 2016, as Chapter 22.
1251. M. Goubko, I. Gutman (11 II 2014)
Degree-based topological indices: Optimal trees with given number of pendants
Applied Mathematics and Computation **240** (2014) 387–398.