

Mehar Ali Malik

Assistant Professor

College of Electrical & Mechanical Engineering

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Contact:



About

Dr. Mehhar Ali Malik is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Mehhar Ali Malik has a PhD in Mathematics Graph Theory. Dr. Mehhar Ali Malik has published 41 research articles & conference papers having a citation count of 113, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics Graph Theory NUST, Islamabad , Pakistan	2012 - 2019
MPhil in Mathematics Graph Theory NUST, Islamabad , Pakistan	2010 - 2012
B.Sc (Hon) in Math and Stats Government College University Lahore , Pakistan	2005 - 2009
F.Sc in General Science Board of Intermediate and Secondary Education, Lahore , Pakistan	2003 - 2005
Matric (SSC) in Science Board of Intermediate and Secondary Education, Lahore , Pakistan	2001 - 2003

Experience

Assistant Professor College of Electrical & Mechanical Engineering	2023- Present
Assistant Professor Riphah International University , Quaid e Azam campus QIE, Lahore	2019 - 2023
Lecturer Riphah International University , I-14, Islamabad	2019 - 2019
Lecturer Riphah International University , I-14, Islamabad	2018 - 2019
Lecturer NUST Islamabad , H-12, Islamabad	2014 - 2018

Research Articles

Computational Analysis of Biological Control Agents for Fusarium Wilt Using M-Polynomials <i>Muhammad Imran Jabbar Ali Yasir Ali Quanita Kiran Mehhar Ali Malik Muhammad Aqib</i> <i>ACS Omega</i> , Volume:10, Issue: 27, Pages:29180-29193 Impact Factor: 4.3 Quartile: 2 DOI: 10.1021/acsomega.5c01839	2025
On some topological indices of R-graphs via graph operations <i>Muhammad Tayyib Rasheed Mehhar Ali Malik Muhammad Waheed</i> <i>Open Journal of Discrete Applied Mathematics</i> , Volume 8, Issue 2, Pages 1-17 Impact Factor: N/A DOI: https://doi.org/10.30538/psrp-odam2025.0112	2025
Mathematical Predicted Values Based on Sombor Descriptors for Cyclooctane Chains <i>Shabbir Ahmad Mehhar Ali Malik Muhammad Imran Muhammad Azeem</i> <i>Journal of Soft Computing and Decision Analytics</i> , Volume 2, Issue 1, Pages 98-109 Impact Factor: 0	2024

DOI: <https://orcid.org/0009-0006-0215-6932>

- On Computing the Topological Invariants of Metal–Organic Networks** 2023
Muhammad Aqib Mehar Ali Malik Yasir Ali Faisal Qayyum
International journal of applied and Computational Mathematics, Volume:10, Issue:1, Article number: 08,
Impact Factor: 0 | Citations: 1
DOI: 10.1007/s40819-023-01626-z
- On distance-based topological indices and coindices of fractal-type molecular graphs and their respective graph entropies** 2023
Mehar Ali Malik Muhammad Imran Muhammad Adeel
Plos One , Volume:18, Issue:11
Impact Factor: 3.7 | Quartile: 2 | Citations: 4
DOI: 10.1371/journal.pone.0290047
- On topological indices of some chemical graphs** 2023
Muhammad Aqib Mehar Ali Malik Hafiz Usman Afzal Tehzeeb Fatima Yasir Ali
Molecular Physics , Pages 1-13
Impact Factor: 1.7 | Quartile: 3 | Citations: 5
DOI: 10.1080/00268976.2023.2276386
- Structural characterization of nanomaterials C4C8** 2023
Muhammad Aqib Mehar Ali Malik Hafiz Usman Afzal Tehzeeb Fatima
Molecular Physics , REHE 2022 Special Issue, Article Number: e2260905
Impact Factor: 1.7 | Quartile: 3 | Citations: 1
DOI: <https://doi.org/10.1080/00268976.2023.2260905>
- On Zagreb coindices and Mostar index of TiO₂ nanotubes** 2023
Muhammad Imran Mehar Ali Malik Muhammad Aqib Gul I Hina Aslam Amjad Ali
Scientific Reports , Volume 13, Issue 1, Article Number 13672
Impact Factor: 4.6 | Quartile: 2 | Citations: 3
DOI: 10.1038/s41598-023-40089-6
- Distance-Based Topological Descriptors of Capra Operation on Some Graphs** 2023
Mehar Ali Malik Muhammad Aqib Iqra Batool Hafiz Muhammad Humza
Polycyclic Aromatic Compounds , Pages 1-15
Impact Factor: 2.4 | Quartile: 2 | Citations: 2
DOI: <https://doi.org/10.1080/10406638.2023.2220161>
- Extremal graphs with respect to the total-eccentricity index** 2023
Rashid Farooq Mehar Ali Malik Juan Rada
Asian-European Journal of Mathematics , Volume:16, Issue:8, Article Number: 2350138
Impact Factor: 0 | Citations: 3
DOI: 10.1142/S1793557123501383
- Realizable degree sequences of inner dual graphs of benzenoid systems** 2022
Faqir M. Bhatti Hassan Baloch Mehar Ali Malik Rameez Ragheb
Journal of Prime Research in Mathematics, Volume 18(2), Pages 125-143
Impact Factor: N/A
DOI: https://jprm.sms.edu.pk/media/pdf/jprm/volume_18/issue-2/Realizable-degree-sequences-of-inner-dual-graphs-of-benzenoid-system.pdf
- Wiener Polarity and Similar Topological Descriptors of Some Copolymer** 2022
Mehar Ali Malik Iqra Batool Mian Muhammad Zobair Gul I Hina Aslam
Polycyclic Aromatic Compounds , Pages 1-12
Impact Factor: 3.744 | Quartile: 2 | Citations: 3
DOI: 10.1080/10406638.2022.2052117
- Gourava descriptors of multi-dimensional flat and stable tri-hexagonal boron nanotubes** 2022
Hani Shaker Mian Muhammad Zobair Hafiz Muhammad Asif Mehmood Mehar Ali Malik
International Journal of Quantum Chemistry, Volume 122, Issue 2, Article Number e26829
Impact Factor: 2.2 | Quartile: 2 | Citations: 4
DOI: <https://doi.org/10.1002/qua.26829>
- Eccentricity-based topological invariants of tightest nonadjacently configured stable pentagonal structure of carbon nanocones** 2021
Mian Muhammad Zobair Mehar Ali Malik Hani Shaker

<i>International Journal of Quantum Chemistry</i>, Volume 121, Issue 24, Article Number Impact Factor: 2.437 Quartile: 2 Citations: 12 DOI: https://doi.org/10.1002/qua.26807		
On Szeged-type indices of titanium oxide TiO₂ nanotubes <i>Muhammad Imran Mehar Ali Malik Ramsha Javed</i> <i>International Journal of Quantum Chemistry</i>, Volume:121, Issue:15, Article Number e26669 Impact Factor: 2.437 Quartile: 2 Citations: 2 DOI: 10.1002/qua.26669		2021
Wiener polarity index and related molecular topological descriptors of titanium oxide nanotubes <i>Muhammad Imran Mehar Ali Malik Ramsha Javed</i> <i>International Journal of Quantum Chemistry</i>, Volume:121, Issue:11, Article Number e26627 Impact Factor: 2.437 Quartile: 2 Citations: 2 DOI: 10.1002/qua.26627		2021
Szeged-type indices of subdivision vertex-edge join (SVE-join) <i>Syed Sheraz Asghar Muhammad Ahsan Binyamin Yu-Ming Chu Mehar Ali Malik Shehnaz Akhtar</i> <i>Main Group Metal Chemistry</i>, Volume:44, Issue:1, Pages 82-91 Impact Factor: 1.917 Quartile: 3 Citations: 8 DOI: https://doi.org/10.1515/mgmc-2021-0011		2021
Chromatic spectrum of some classes of 2-regular bipartite colored graphs <i>Muhammad Imran Yasir Ali Mehar Ali Malik Kiran Hasnat</i> <i>Journal of Intelligent and Fuzzy Systems</i>, Volume 41, Issue 1, Pages 1125-1133 Impact Factor: 1.737 Quartile: 4 DOI: 10.3233/JIFS-210066		2021
On topological properties of boron and boron-α nanotubes <i>Muhammad Imran Tariq Nawaz Muhammad Kamran Jamil Sikander Hayat Mehar Ali Malik</i> <i>Mathematical Methods in the Applied Sciences</i>, Volume 2020, Pages 1–15 Impact Factor: 2.321 Quartile: 1 Citations: 4 DOI: https://doi.org/10.1002/mma.6808		2020
Eccentricity based topological invariants of triangulane dendrimers <i>Mian Muhammad Zobair Mehar Ali Malik Hani Shaker Noor Rehman</i> <i>Utilitas Mathematica</i>, Volume: 107, Pages 193-206 Impact Factor: 0.228 Quartile: 4 DOI: NA		2018
Two degree-distance based topological descriptors of some product graphs <i>Mehar Ali Malik</i> <i>Discrete Applied Mathematics</i>, Volume 236, Pages 315-328 Impact Factor: 0.983 Quartile: 3 Citations: 14 DOI: https://doi.org/10.1016/j.dam.2017.11.002		2018
On the Eccentric-Connectivity Index of Some 3-Fence Graphs and Their Line Graphs <i>Mehar Ali Malik Rashid Farooq</i> <i>International Journal of Applied and Computational Mathematics</i>, Volume 3, Issue 2, Pages 1157-1169 Impact Factor: 0 Citations: 3 DOI: 10.1007/s40819-016-0165-8		2017
On Some Degree-Based Topological Indices of Line Graphs of TiO₂[m, n] Nanotubes <i>Yuhong Huo Jia-Bao Liu Muhammad Imran Muhammad Saeed Mohammad Reza Farahani Muhammad Azhar Iqbal Mehar Ali Malik</i> <i>Journal of Computational and Theoretical Nanoscience</i>, Volume 13, Number 12, Pages 9131-9135 Impact Factor: 0 Citations: 4 DOI: https://doi.org/10.1166/jctn.2016.6292		2016
Computing topological indices of some hyper-branched macromolecules <i>Mehar Ali Malik Rashid Farooq</i> <i>Journal of Optoelectronics and Advanced Materials</i>, Volume: 18 Issue: 11-12 Pages: 1057-1068 Impact Factor: 0.449 Quartile: 4		2016
On the wiener index of nanostar dendrimers <i>Mehar Ali Malik Raad Sehen Haoer</i>		2016

Impact Factor: N/A | **Citations:** 2

DOI: <https://doi.org/10.1166/jctn.2016.5974>

On multiple zagreb indices of boron and boron- α nanotubes

2016

Li Yan Yingfang Li Muhammad Saeed Muhammad Imran Muhammad Reza Farahani Mehar Ali Malik

Journal of Computational and Theoretical Nanoscience, Volume 13, No. 11, Pages 9014-9017

Impact Factor: N/A | **Citations:** 1

DOI: <https://doi.org/10.1166/jctn.2016.6078>

On the nullity of a family of tripartite graphs

2016

Rashid Farooq Mehar Ali Malik Qudsia Naureen Shariefuddin Pirzada

Acta Universitatis Sapientiae Informatica, Volume: 8, Issue: 1, Pages: 96-107

Impact Factor: 0

DOI: 10.1515/ausi-2016-0006

Computing some degree-based topological indices of a heterofunctional dendrimer

2016

Nazia Nazir Rashid Farooq Mehar Ali Malik

Journal of Optoelectronics and Advanced Materials, Vol. 18, Iss. 5-6, p. 574 - 586

Impact Factor: 0.449 | **Quartile:** 4

DOI: -

On Some Degree based Topological Indices of TIO2 Nanotubes

2016

Abdul Qudair Baig Mehar Ali Malik

University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science, Volume 78, Issue 4, Pages 23-30

Impact Factor: N/A

Computing Eccentric Version of Second Zagreb Index of Polycyclic Aromatic Hydrocarbons (PAHk)

2016

Muhammad Kamran Jamil Muhammad Reza Farahani Muhammad Imran Mehar Ali Malik

Applied Mathematics and Nonlinear Sciences, Volume 1(1), Pages 247-252

Impact Factor: N/A

DOI: 10.21042/AMNS.2016.1.00019

On Multiple Zagreb Indices of TiO2 Nanotubes

2015

Mehar Ali Malik Muhammad Imran

Acta Chimica Slovenica, Volume 62, Issue 4, Pages 973-976

Impact Factor: 1.167 | **Quartile:** 3 | **Citations:** 30

DOI: 10.17344/acsi.2015.1746

Eccentricity based topological indices of a hetrofunctional dendrimer

2015

Rashid Farooq Nazia Nazir Mehar Ali Malik Muhammad Arfan

Journal of Optoelectronics and Advanced Materials, Volume 17, issue 11-12, Pages 1799-1807

Impact Factor: 0.383 | **Quartile:** 4

DOI: https://www.researchgate.net/publication/286440799_Eccentricity_based_topological_indices_of_a_hetrofunctional_dendrimer

On the Anti-Kekule Number of Nanotubes and Nanocones

2015

Mehar Ali Malik Sakander Hayat Muhammad Imran

Journal of Computational and Theoretical Nanoscience, Volume 12, Number 10, Pages 3125-3129

Impact Factor: 1.666 | **Quartile:** 2 | **Citations:** 5

DOI: DOI:10.1166/jctn.2015.4090

Computing the anti-kekule number of certain nanotubes and nanocones

2015

Mehar Ali Malik Muhammad Imran

Studia Universitatis Babes-Bolyai Chimia, Volume 60, Issue 2, Pages 229-239

Impact Factor: 0.148 | **Quartile:** 4

DOI: -

On some eccentricity based topological indices of nanostar dendrimers

2015

Rashid Farooq Mehar Ali Malik

Optoelectronics and Advanced Materials-Rapid Communications, Volume 9, Issue 5-6, Pages 842-849

Impact Factor: 0.412 | **Quartile:** 4

DOI: -

Inertia, Nullity and Signature of CNC4[n] Nanocone

2015

Sakander Hayat Mehar Ali Malik

Impact Factor: -

DOI: -

Some conjectures on energy and Estrada index of CNCK[n] nanocones 2015

Mehar Ali Malik Rashid Farooq

Optoelectronics and Advanced Materials-Rapid Communications, Volume 9, Issue 3-4, Pages 415-418

Impact Factor: 0.412 | Quartile: 4

DOI: https://www.researchgate.net/publication/275026456_Some_conjectures_on_energy_and_Estrada_index_of_CNC_kn_nanocones

Computational results on the energy and Estrada index of TUC4C8[m,n] nanotubes 2015

Mehar Ali Malik Rashid Farooq

Optoelectronics and Advanced Materials-Rapid Communications, Volume: 9 Issue: 1-2 Pages: 311-313

Impact Factor: 0.412 | Quartile: 4

DOI: -

Computing Topological Indices of Honeycomb Derived Networks 2015

Sakander Hayat Mehar Ali Malik Muhammad Imran

Romanian Journal of Information Science and Technology, Volume 18, Number 2, Pages 144-165

Impact Factor: 0.269 | Quartile: 4

DOI: <https://romjist.ro/content/pdf/03-mimran.pdf>

On super edge-magic total labeling of certain classes of graphs 2014

Muhammad Imran Mehar Ali Malik Muhammad Yasir Hayat Malik

International Journal of Mathematics and Soft Computing, Volume 4, No. 2, Pages 49-57

Impact Factor: 0

DOI: 10.26708/IJMSC.2014.2.4.06

On Super Edge-Magic Total Labeling of Reflexive W-Trees 2014

Muhammad Imran Mehar Ali Malik M. Yasir Hayat Malik

Science International(Lahore) , Volume 26(2), Pages 537-545

Impact Factor: 0

DOI: -

Editorial Activities

TWMS Journal of Applied and Engineering Mathematics 2024

Reviewed Papers for Journals

Impact Factor: ESCI

Molecular Physics 2023

Reviewed Papers for Journals

Impact Factor: 1.6