

Rashid Farooq

Professor

School of Natural Sciences

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About

Dr. Rashid Farooq is working as Professor in the School of Natural Sciences. Dr. Rashid Farooq has a PhD in Mathematics. Dr. Rashid Farooq has published 46 research articles & conference papers having a citation count of 232, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics Kyoto University , Japan	2003 - 2007
MPhil in Mathematics Quaid-i-Azam University , Pakistan	1998 - 2000
MSc in Mathematics Quaid-i-Azam University , Pakistan	1996 - 1998
BSc in Mathematics, Statistics BZU, Multan , Pakistan	1992 - 1995
F.Sc in Physics, Statistics, Mathematics Board of Intermediate and Secondary Education, Multan , Pakistan	1990 - 1992
Matric (SSC) in Mathematics, Physics, Chemistry, Biology Board of Intermediate and Secondary Education, Multan , Pakistan	1988 - 1990

Experience

Professor School of Natural Sciences	2019- Present
Associate Professor School of Natural Sciences	2015 - 2019
Assistant Professor School of Natural Sciences	2012 - 2015
Assistant Professor School of Natural Sciences	2007 - 2012

Awards

SNS Best Teacher Award SNS Best Teacher Award for the year 2016	2017
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Research Articles

The General Sombor Index of Extremal Trees with a Given Maximum Degree <i>Sultan Ahmad Rashid Farooq Kinkar Chandra Das</i> <i>MATCH-Communications in Mathematical and in Computer Chemistry</i> , Volume 94(3), Pages 825-853 Impact Factor: 2.900 Quartile: 1 DOI: 10.46793/match.94-3.21724	2025
On Elliptic Sombor Index with Applications <i>Sultan Ahmad Kinkar Chandra Das Rashid Farooq</i> <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , Volume:48, Issue:4, Article Number 108 Impact Factor: 1.000 Quartile: 1	2025

DOI: https://doi.org/10.1007/s40840-025-01894-6	
On Variable Sum Exdeg Energy Of Graphs	2024
Sumaira Hafeez Rashid Farooq Amina Saher	
Transactions on Combinatorics , Volume: 13, Issue: 1 - Serial Number 1, Pages 85-103	
Impact Factor: N/A	
DOI: 10.22108/TOC.2023.133151.1978	
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	
Tree with maximum non-self-centrality number among all trees of fixed order and maximum degree	2022
Laiba Mudusar Rashid Farooq	
Discrete Applied Mathematics , Volume 311, Pages 26-34	
Impact Factor: 1.139 Quartile: 3	
DOI: https://doi.org/10.1016/j.dam.2021.12.033	
Total eccentricity index of trees with fixed pendent vertices and trees with fixed diameter	2022
Rashid Farooq Shehnaz Akhter Juan Rada	
Japan Journal of Industrial and Applied Mathematics , Volume 39, Pages 443-465	
Impact Factor: 0.876 Quartile: 4 Citations: 4	
DOI: 10.1007/s13160-021-00494-8	
METRIC DIMENSION OF INDU-BALA PRODUCT OF GRAPHS	2021
Shehnaz Akhter Rashid Farooq	
Jordan Journal of Mathematics and Statistics , Volume:14, Issue:4, Page:581-605	
Impact Factor: N/A Citations: 2	
DOI: https://doi.org/10.47013/14.4.1	
Non-self-centrality number of some molecular graphs	2021
Rashid Farooq Laiba Mudusar	
AIMS Mathematics , Volume 6(8), Pages 8342–8351	
Impact Factor: 2.739 Quartile: 1 Citations: 1	
DOI: 10.3934/math.2021483	
On energy ordering of vertex-disjoint bicyclic sidigraphs	2020
Sumaira Hafeez Rashid Farooq	
AIMS Mathematics , Volume 5(6), Pages 6693–6713	
Impact Factor: 1.427 Quartile: 2	
DOI: DOI:10.3934/math.2020430	
Computing bounds for the general sum-connectivity index of some graph operations	2020
Rashid Farooq Shehnaz Akhter	
Algebra and Discrete Mathematics , Volume 29, Number 2, Pages 147-160	
Impact Factor: - Citations: 3	
DOI: http://dx.doi.org/10.12958/adm281	
Eccentric Adjacency Index of Graphs with a Given Number of Cut Edges	2020
Shehnaz Akhter Rashid Farooq	
Bulletin of the Malaysian Mathematical Sciences Society , Volume 43, Issue 3, Pages 2509–2522	
Impact Factor: 1.554 Quartile: 1 Citations: 12	
DOI: https://doi.org/10.1007/s40840-019-00820-x	
On generalized inverse sum indeg index and energy of graphs	2020
Rashid Farooq Sumaira Hafeez	
AIMS Mathematics , Volume 5(3), Pages 2388–2411	
Impact Factor: 1.427 Quartile: 2 Citations: 11	
DOI: 10.3934/math.2020158	
The eccentric adjacency index of unicyclic graphs and trees	2020
Shehnaz Akhter Rashid Farooq	
Asian-European Journal of Mathematics , Volume 13, No. 01, Article Number 2050028	

Impact Factor: - Citations: 9 DOI: https://doi.org/10.1142/S179355712050028X	
Iota energy of bicyclic signed digraphs <i>Rashid Farooq Sarah Chand Mehtab Khan Sarah Chand Mehtab Khan</i> <i>Asian-European Journal of Mathematics</i> , Volume: 12, Issue: 5, Article Number: 1950078 Impact Factor: - Citations: 7 DOI: DOI: 10.1142/S1793557119500785	2019
Inverse sum indeg energy of graphs <i>Sumaira Hafeez Rashid Farooq</i> <i>IEEE Access</i> , Volume 7, Pages 100860-100866 Impact Factor: 3.745 Quartile: 1 Citations: 17 DOI: DOI:10.1109/ACCESS.2019.2929528	2019
Bicyclic signed digraphs with maximal energy <i>Sumaira Hafeez Rashid Farooq Mehtab Khan</i> <i>Applied Mathematics and Computation</i> , Volume: 347, Pages: 702-711 Impact Factor: 3.472 Quartile: 1 Citations: 5 DOI: https://doi.org/10.1016/j.amc.2018.11.040	2019
On iota energy of signed digraphs <i>Rashid Farooq Mehtab Khan Sara Chand</i> <i>Linear and Multilinear Algebra</i> , Volume 67, Issue 4, Pages 705-724 Impact Factor: 1.112 Quartile: 2 Citations: 11 DOI: https://doi.org/10.1080/03081087.2018.1431200	2019
Metric dimension of fullerene graphs <i>Shehnaz Akhter Rashid Farooq</i> <i>Electronic Journal of Graph Theory and Applications</i> , Volume: 7, Issue: 1, Pages: 91-103 Impact Factor: 0 Citations: 25 DOI: http://dx.doi.org/10.5614/ejgta.2019.7.1.7	2019
Exact Formulae of General Sum-Connectivity Index for Some Graph Operations <i>Shehnaz Akhter Rashid Farooq Shariefuddin Pirzada</i> <i>Matematicki Vesnik</i> , NULL Impact Factor: 0 DOI: http://www.vesnik.math.rs/vol/mv18309.pdf	2018
On partition dimension of fullerene graphs <i>Naila Mehreen Shehnaz Akhter Rashid Farooq</i> <i>AIMS Mathematics</i> , NULL Impact Factor: 0 Citations: 38 DOI: http://dx.doi.org/10.3934/Math.2018.3.343	2018
Complex adjacency matrix and energy of digraphs <i>Rashid Farooq Juan Rada Mehtab Khan</i> <i>Linear and Multilinear Algebra</i> , NULL Impact Factor: 0.835 Quartile: 2 Citations: 19 DOI: http://dx.doi.org/10.1080/03081087.2016.1265064	2017
On The Energy of Bicyclic Signed Digraphs <i>Mehtab Khan Rashid Farooq</i> <i>Journal of Mathematical Inequalities</i> , Volume 11, Number 3, Pages 845–862 Impact Factor: 0.849 Quartile: 2 Citations: 9 DOI: 10.7153/jmi-2017-11-65	2017
A Note on a Two-Sided Discrete-Concave Market with Possibly Bounded Salaries <i>Rashid Farooq Ayesha Mahmood</i> <i>International Game Theory Review</i> , Vol. 19, No. 3 (2017) 1750017 (21 pages) Impact Factor: 0 DOI: 10.1142/S0219198917500177	2017
Extremal iota energy of bicyclic digraphs <i>Rashid Farooq Faiz Ahmad Mehtab Khan</i> <i>Applied Mathematics and Computation</i> , Volume 303, Pages 24-33	2017

Impact Factor: 2.3 Quartile: 1 Citations: 15 DOI: http://dx.doi.org/10.1016/j.amc.2017.01.028	
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 the Atom-bond connectivity and Geometric-Arithmetic indices of SiO₂ layer structure <i>Fatima Farrukh Rashid Farooq Mohammad R. Farahani</i> <i>Moroccan Journal of Chemistry</i> , NULL Impact Factor: 0 DOI: https://revues.imist.ma/index.php?journal=morjchem&page=article&op=view&path%5B%5D=7811	2017
Computing Different Versions of Atom-bond Connectivity Index of Dendrimers <i>Zahid Iqbal Muhammad Ishaq Rashid Farooq</i> <i>Journal of Informatics and Mathematical Sciences</i> , Volume: 9 Issue: 1 Pages: 217-229 Published: 2017 Impact Factor: 0 DOI: http://www.rgnpublications.com/journals/index.php/jjims/article/view/511	2017
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
Generalized atom-bond connectivity analysis of several chemical molecular graphs <i>W. Gao W.F. Wang M.K. Jamil Rashid Farooq M.R. Farahani</i> <i>Bulgarian Chemical Communications</i> , , Volume: 48, Issue:3, Pages:543-549, Published: 2016 Impact Factor: 0.238 Quartile: 4 DOI: -	2016
On the nullity of a family of tripartite graphs <i>Rashid Farooq Mehar Ali Malik Qudsia Naureen Shariefuddin Pirzada</i> <i>Acta Universitatis Sapientiae Informatica</i> , Volume: 8, Issue: 1, Pages: 96-107 Impact Factor: 0 DOI: 10.1515/ausi-2016-0006	2016
Computing some degree-based topological indices of a heterofunctional dendrimer <i>Nazia Nazir Rashid Farooq Mehar Ali Malik</i> <i>Journal of Optoelectronics and Advanced Materials</i> , Vol. 18, Iss. 5-6, p. 574 - 586 Impact Factor: 0.449 Quartile: 4 DOI: -	2016
Eccentricity based topological indices of a hetrofunctional dendrimer <i>Rashid Farooq Nazia Nazir Mehar Ali Malik Muhammad Arfan</i> <i>Journal of Optoelectronics and Advanced Materials</i> , 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	2015
On the extremal energy of bicyclic digraphs <i>Mehtab Khan Rashid Farooq Azad Akhter Siddiqui</i> <i>Journal of Mathematical Inequalities</i> , Volume 9, Issue 3, Pages 799-810 Impact Factor: 0.636 Quartile: 2 Citations: 20 DOI: 10.7153/jmi-09-66	2015
M#-Convexity and Ultramodularity on Integer Lattice <i>Sumbal Azeem Rashid Farooq</i> <i>Mathematical Inequalities and Applications</i> , Volume: 18 Issue: 3 Pages: 949-958 Impact Factor: 0.544 Quartile: 3 DOI: 10.7153/mia-18-71	2015
On some eccentricity based topological indices of nanostar dendrimers <i>Rashid Farooq Mehar Ali Malik</i> <i>Optoelectronics and Advanced Materials-Rapid Communications</i> , Volume 9, Issue 5-6, Pages 842-849	2015

- Impact Factor:** 0.412 | **Quartile:** 4
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: -
- Matching with partially ordered contracts** 2012
Rashid Farooq T. Fleiner A. Tamura
Japan Journal of Industrial and Applied Mathematics, Volume: 29, Issue: 3, Pages: 401-417, Special Issue: SI
Impact Factor: 0.452 | **Quartile:** 4 | **Citations:** 5
DOI: 10.1007/s13160-012-0073-1
- Existence of stable outcome for a job market with linear valuations and possibly bounded salaries** 2011
Yasir Ali Rashid Farooq
Pacific Journal of Optimization, Volume: 7, Issue: 3, Pages: 531-550
Impact Factor: 0.527 | **Quartile:** 3
DOI: <http://www.ybook.co.jp/online2/pjov7-1.html>
- Existence of Stable Outcome in a Job Market with Linear Valuations and Possibly Bounded Salaries** 2011
Yasir Ali Rashid Farooq
Pacific Journal of Optimization, Volume: 7, Issue:3, Pages: 531-550
Impact Factor: 0.527 | **Quartile:** 3
DOI:
https://www.researchgate.net/publication/267677294_Existence_of_stable_outcome_in_a_job_market_with_linear_valuations_and_possibly_bounded_salaries
- Pairwise Stability in a Two-Sided Matching Market with Indivisible Goods and Money** 2011
Yasir Ali Rashid Farooq
Journal of the Operations Research Society of Japan, Volume 54, Issue 1, Pages 1-1
Impact Factor: N/A | **Citations:** 3
DOI: <https://doi.org/10.15807/jorsj.54.1>
- On a Labor Allocation Model with Possibly Bounded Salaries** 2008
Rashid Farooq YbshlkoT Ikebe Akihisa Tamura
Journal of the Operations Research Society of Japan, Volume: 51 Issue: 2 Pages: 136-154
Impact Factor: 0.196 | **Quartile:** 4 | **Citations:** 2
DOI: 10.15807/jorsj.51.136
- A Polynomial-time Algorithm for a Stable Matching Problem with Linear Valuations and Bounded Side Payments** 2008
Rashid Farooq
Japan Journal of Industrial and Applied Mathematics, Volume: 25, Issue: 1, Pages: 83-98
Impact Factor: 0.447 | **Quartile:** 4 | **Citations:** 5
DOI: 10.1007/BF03167514
- A note on the equivalence between substitutability and $M^\#$ -convexity** 2005
Rashid Farooq Akiyoshi Shioura
Pacific Journal of Optimization, Volume 1, Number 1, Pages 243-252
Impact Factor: N/A
DOI: <http://www.ybook.co.jp/online2/pjov1-1.html>
- A new characterization of $M^{\wedge}\{n\}$ -convex set functions by substitutability** 2004
Rashid Farooq Akihisa Tamura
Journal of the Operations Research Society of Japan, Volume: 47, Issue: 1, Pages: 18-24
Impact Factor: 0.191 | **Quartile:** 4 | **Citations:** 3
DOI: 10.15807/jorsj.47.18

A note on finite metabelian groups of wielandt length two <i>Asif Ali Rashid Farooq</i> <i>Southeast Asian Bulletin of Mathematics</i> , Volume 25, Pages 187-190 Impact Factor: 0 DOI: https://link.springer.com/article/10.1007/s10012-001-0187-x	2001
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Editorial Activities

Malaysian Journal of Mathematical Sciences Reviewed Papers for Journals Impact Factor: 1.3	2025
Malaysian Journal of Mathematical Sciences Reviewed Papers for Journals Impact Factor: 1.3	2025
Heliyon Reviewed Papers for Journals Impact Factor: 3.4	2025
Malaysian Journal of Mathematical Sciences Reviewed Papers for Journals Impact Factor: 0.5	2025
The Journal of Supercomputing Reviewed Papers for Journals Impact Factor: 2.5	2025
Heliyon Reviewed Papers for Journals Impact Factor: 3.4	2024
Heliyon Reviewed Papers for Journals Impact Factor: 3.4	2024
Modern Physics Letters B Reviewed Papers for Journals Impact Factor: 1.8	2024
Journal of Applied Mathematics and Computing Reviewed Papers for Journals Impact Factor: 2.4	2024
Discrete Applied Mathematics Reviewed Papers for Journals Impact Factor: 1	2024
Heliyon Reviewed Papers for Journals Impact Factor: 3.4	2024
Journal of Mathematics Reviewed Papers for Journals Impact Factor: 1.4	2024
Discrete Applied Mathematics Reviewed Papers for Journals Impact Factor: 1.1	2023
Research in Mathematics Reviewed Papers for Journals Impact Factor: N/A	2023
Hacettepe Journal of Mathematics and Statistics Reviewed Papers for Journals Impact Factor: 0.867	2023
Journal of Mathematics	2023

Reviewed Papers for Journals Impact Factor: 1.4	
AIMS Mathematics Reviewed Papers for Journals Impact Factor: 2.2	2023
Journal of Mathematics Reviewed Papers for Journals Impact Factor: 1.4	2023
Journal of Applied Mathematics and Computing Reviewed Papers for Journals Impact Factor: 2.196	2023
Journal of Applied Mathematics and Computing Reviewed Papers for Journals Impact Factor: 2.196	2023
Journal of Mathematics Reviewed Papers for Journals Impact Factor: 1.555	2023
Bulletin of the Malaysian Mathematical Sciences Society Reviewed Papers for Journals Impact Factor: 1.397	2023
Reviewed Papers for Journals Impact Factor: 2.739	2022
Reviewed Papers for Journals Impact Factor: 1.686	2022
Reviewed Papers for Journals Impact Factor: 3.931	2022
Reviewed Papers for Journals Impact Factor: 0	2022
Reviewed Papers for Journals Impact Factor: 3.744	2021
Reviewed Papers for Journals Impact Factor: 3.744	2021
Discrete Applied Mathematics Reviewed Papers for Journals Impact Factor: 1.1	2021
Heliyon Reviewed Papers for Journals Impact Factor: 3.4	2021
Heliyon Reviewed Papers for Journals Impact Factor: 3.4	2020
Reviewed Papers for Journals Impact Factor: 3.744	2020
Reviewed Papers for Journals Impact Factor: 0.927	2019

2019

Reviewed Papers for Journals
Impact Factor: 3.557

2018

Reviewed Papers for Journals
Impact Factor: 0.635

2018

Reviewed Papers for Journals
Impact Factor: 0