

## Assoc. Prof. Murat Cancan

### Personal Information

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### International Researcher IDs

ScholarID: [yArvcOgAAAAJ](https://orcid.org/0000-0002-8606-2274)

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Publons / Web Of Science ResearcherID: AAB-4391-2020

ScopusID: 35185892900

Yoksis Researcher ID: 145933

### Education Information

Doctorate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Matematik Abd, Turkey 1999 - 2008

Postgraduate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Matematik Abd, Turkey 1997 - 1999

Undergraduate, Van Yüzüncü Yıl University, Fen Edebiyat Fakültesi, Matematik Bölümü, Turkey 1992 - 1996

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, Homfly ve BLM/Ho Polinomları(The Homfly and BLM/HO Polynomials) , Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Matematik Abd, 2008

Postgraduate, Topolojik Uzaylarda Parakompaktlık ve Metriklenebilme(Paracompactness and Metrizable in Topological Spaces) , Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Matematik Abd, 1999

### Research Areas

Sociology, Applied Sociology, Elementary School Education, Teacher Training in Science and Math. at Second. Sch. Lev., Chemical Engineering and Technology, Mathematics, Multivariate Complex Functions and Analytic Spaces, Computer Science, Algebraic Geometry, Algebraic Topology, Field Theory and Polynomials, Sequences, Series, Summability, Functional Analysis, General Topology, Geometry, Statistics, Functions of a Complex Variable, Combinatorics, Mathematical Logic and Foundations, Mathematics Education, Optimization, Special Functions, Abstract Harmonic Analysis, Topological Groups, Lie Groups, Approximations and Expansions, Natural Sciences

## Academic Titles / Tasks

Associate Professor, Van Yüzüncü Yil University, Eğitim Fakültesi, Orta Öğretim Fen Ve Matematik Alanları Eğitimi Bölümü, 2018 - Continues

Assistant Professor, Van Yüzüncü Yil University, Eğitim Fakültesi, Orta Öğretim Fen Ve Matematik Alanları Eğitimi Bölümü, 2018 - Continues

Assistant Professor, Van Yüzüncü Yil University, Eğitim Fakültesi, Orta Öğretim Fen Ve Matematik Alanları Eğitimi Bölümü, 2009 - 2018

Research Assistant PhD, Van Yüzüncü Yil University, Fen Fakültesi, Matematik Bölümü, 2008 - 2008

Research Assistant, Van Yüzüncü Yil University, Fen Fakültesi, Matematik Bölümü, 2006 - 2008

Research Assistant, Van Yüzüncü Yil University, Fen Fakültesi, Matematik Bölümü, 1997 - 2003

## Academic and Administrative Experience

fakülte genel koordinatörü, Van Yüzüncü Yil University, Eğitim Fakültesi, Orta Öğretim Fen Ve Matematik Alanları Eğitimi Bölümü, 2016 - Continues

## Advising Theses

Cancan M., 7. SINIF ÖĞRENCİLERİNİN DOĞRUSAL DENKLEMLER KONUSUNDAKİ KAVRAM YANILGILARI VE GÜNCEL ÇÖZÜM ÖNERİLERİ (VAN İLİ ÖRNEĞİ), Postgraduate, S.KALAÇ(Student), 2016

Cancan M., Öğrenci Merkezli Eğitimde Üslu ve Köklü Sayılardaki Kavram Yanılgıları, Öğrenme Güçlükleri ve Çözüm Önerileri, Postgraduate, R.YÜCESAN(Student), 2013

## Jury Memberships

Post Graduate, Jüri Üyesi (Danışman), Yüzüncü Yil Üniversitesi Eğitim Bilimleri Enstitüsü, June, 2016

Post Graduate, Recep Yücesan, Yüzüncü Yil Üniversitesi Eğitim Bilimleri Enstitüsü, November, 2013

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Entropy Related to K-Banhatti Indices via Valency Based on the Presence of C<sub>6</sub>H<sub>6</sub> in Various Molecules**  
Ghani M. U., Campena F. J. H., Maqbool M. K., Liu J., Dehraj S., Cancan M., Alharbi F. M.  
Molecules, vol.28, no.1, 2023 (SCI-Expanded)
- II. **Some Novel Results Involving Prototypical Computation of Zagreb Polynomials and Indices for SiO<sub>4</sub> Embedded in a Chain of Silicates**  
Tag El Din E. S. M., Sultan F., Ghani M. U., Liu J., Dehraj S., Cancan M., Alharbi F. M., Alhushaybari A.  
Molecules, vol.28, no.1, 2023 (SCI-Expanded)
- III. **Connecting SiO<sub>4</sub> in Silicate and Silicate Chain Networks to Compute Kullback Temperature Indices**  
Zhang Y., Ghani M. U., Sultan F., İnç M., Cancan M.  
MOLECULES, vol.27, no.21, 2022 (SCI-Expanded)
- IV. **On Computation of Entropy Measures and Their Statistical Analysis for Complex Benzene Systems**  
Wang X., Hanif M. F., Mahmood H., Manzoor S., Siddiqui M. K., Cancan M.  
POLYCYCLIC AROMATIC COMPOUNDS, 2022 (SCI-Expanded)
- V. **A Paradigmatic Approach to Find the Valency-Based K-Banhatti and Redefined Zagreb Entropy for Niobium Oxide and a Metal-Organic Framework**  
Ghani M. U., Sultan F., El Din E. S. M. T., Khan A. R., Liu J., Cancan M.

MOLECULES, vol.27, no.20, 2022 (SCI-Expanded)

- VI. **On Degree Based Topological Co-Indices of Graphite Carbon Nitride**  
Huang R., Muhammad M. H., Siddiqui M. K., Nasir M., Cancan M.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.8, pp.5616-5625, 2022 (SCI-Expanded)
- VII. **On Reverse Degree Based Topological Indices of Polycyclic Metal Organic Network**  
Zhao D., Chu Y., Siddiqui M. K., Ali K., Nasir M., Younas M. T., Cancan M.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.7, pp.4386-4403, 2022 (SCI-Expanded)
- VIII. **On Analysis of Topological Co-Indices for Triangular Benzenoids and Starphene Nanotubes**  
Zhao W., Siddiqui M. K., Kirmani S. A. K., Hussain N., Ullah H., Cancan M.  
POLYCYCLIC AROMATIC COMPOUNDS, 2022 (SCI-Expanded)
- IX. **On Analysis of Temperature Based Topological Indices of Some Covid-19 Drugs**  
Zhang Y., Khalid A., Siddiqui M. K., Rehman H., Ishtiaq M., Cancan M.  
POLYCYCLIC AROMATIC COMPOUNDS, 2022 (SCI-Expanded)
- X. **Degree-Based Topological Aspects of Polyphenylene Nanostructures**  
Chu Y., Numan M., Butt S. I., Siddiqui M. K., Ullah R., Cancan M., Ali U.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.5, pp.2591-2606, 2022 (SCI-Expanded)
- XI. **On the Temperature Indices of Molecular Structures of Some Networks**  
Jahanbani A., Khoeilar R., Cancan M.  
JOURNAL OF MATHEMATICS, vol.2022, 2022 (SCI-Expanded)
- XII. **Extremal Trees for the Exponential of Forgotten Topological Index**  
Jahanbani A., Cancan M., Motamedi R.  
JOURNAL OF MATHEMATICS, vol.2022, 2022 (SCI-Expanded)
- XIII. **On Topological Indices and QSPR Analysis of Drugs Used for the Treatment of Breast Cancer**  
Bokhary S. A. U. H., Adnan A., Siddiqui M. K., Cancan M.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.9, pp.6233-6253, 2022 (SCI-Expanded)
- XIV. **A Degree Based Topological Study of Two Carbon Nanosheets VC5C7 and HC5C7**  
Ishtiaq M., Rauf A., Rubbab Q., Siddiqui M. K., Rehman A., Cancan M.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.7, pp.4578-4598, 2022 (SCI-Expanded)
- XV. **Topological Indices and QSPR Modeling of New Antiviral Drugs for Cancer Treatment**  
Huang L., Wang Y., Pattabiraman K., Danesh P., Siddiqui M. K., Cancan M.  
Polycyclic Aromatic Compounds, 2022 (SCI-Expanded)
- XVI. **On Degree Based Topological Indices of Transition Metal-Tetra Cyano Polycyclic Benzene Organic Network**  
Zhao W., Nadeem M. F., Cancan M., Siddiqui M. K., Ali K., Siddiqui H. M. A., Rehman A. U., Hanif M. F., Ahmad A., Muhammad M. H., et al.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.7, pp.4534-4560, 2022 (SCI-Expanded)
- XVII. **On Topological Indices of Remdesivir Compound Used in Treatment of Corona Virus (COVID 19)**  
Wei J., Cancan M., Rehman A. U., Siddiqui M. K., Nasir M., Younas M. T., Hanif M. F.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.7, pp.4300-4316, 2022 (SCI-Expanded)
- XVIII. **Topological Study of Carbon Nanotube and Polycyclic Aromatic Nanostar Molecular Structures**  
Luo Guangyu L. G., Hussain S., Khalid A., Ishtiaq M., Siddiqui M. K., Cancan M., Imran M.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.7, pp.4049-4065, 2022 (SCI-Expanded)
- XIX. **THE SHARP BOUNDS OF ZAGREB INDICES ON CONNECTED GRAPHS**  
Chu Y., Shafiq M. K., Imran M., Siddiqui M. K., Siddiqui H. M. A., Baby S., Cancan M.  
JOURNAL OF MATHEMATICAL INEQUALITIES, vol.15, no.2, pp.477-489, 2021 (SCI-Expanded)
- XX. **M-Polynomials and Degree-Based Topological Indices of the Molecule Copper(I) Oxide**  
Chaudhry F., Shoukat I., Afzal D., Park C., Cancan M., Farahani M. R.  
JOURNAL OF CHEMISTRY, vol.2021, 2021 (SCI-Expanded)
- XXI. **On analysis of thermodynamic properties of cuboctahedral bi-metallic structure**  
Siddiqui M. K., Chu Y., Nasir M., Cancan M.  
MAIN GROUP METAL CHEMISTRY, vol.44, no.1, pp.117-128, 2021 (SCI-Expanded)

- XXII. **Topological Properties of Nanostar Dendrimer and Smart Polymer**  
Rashid M. A., Ahmad S., Cancan M., Muhammad M. H.  
JOURNAL OF CHEMISTRY, vol.2020, 2020 (SCI-Expanded)
- XXIII. **Molecular Topological Properties of Alkylating Agents Based Anticancer Drug Candidates Via Some Ve-degree Topological Indices**  
Ediz S., Cancan M.  
CURRENT COMPUTER-AIDED DRUG DESIGN, vol.16, no.2, pp.190-195, 2020 (SCI-Expanded)
- XXIV. **On Harmonic and Ev-Degree Molecular Topological Properties of DOX, RTOX and DSL Networks**  
Cancan M.  
CMC-COMPUTERS MATERIALS & CONTINUA, vol.59, no.3, pp.777-786, 2019 (SCI-Expanded)
- XXV. **On Ev-Degree and Ve-Degree Topological Properties of Tickysim Spiking Neural Network**  
Cancan M.  
COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, 2019 (SCI-Expanded)
- XXVI. **Ortaokul Öğretmenlerinin Bilgi ve İletişim Teknolojilerine Yönelik Tutumları ve Görüşleri**  
Bakırcı H., Cancan M., Uzunyol B.  
TURKISH STUDIES, vol.12, no.28, pp.67-90, 2017 (SSCI)
- XXVII. **Statistical convergence of double sequences in fuzzy normed spaces**  
MOHIUDDINE S. A., Sevli H., Cancan M.  
FILOMAT, vol.26, no.4, pp.673-681, 2012 (SCI-Expanded)
- XXVIII. **Intuitionistic fuzzy stability of a Jensen functional equation via fixed point technique**  
MOHIUDDINE S. A., Cancan M., Sevli H.  
MATHEMATICAL AND COMPUTER MODELLING, vol.54, pp.2403-2409, 2011 (SCI-Expanded)
- XXIX. **Some results over thin-thick sets in cone locally convex spaces**  
Cancan M.  
FIXED POINT THEORY AND APPLICATIONS, 2011 (SCI-Expanded)
- XXX. **Statistical convergence in fuzzy 2-normed space**  
Mohiuddine S. A., Şevli H., Cancan M.  
JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, vol.12, no.4, pp.787-798, 2010 (SCI-Expanded)
- XXXI. **Browder's Fixed Point Theorem and Some Interesting Results in Intuitionistic Fuzzy Normed Spaces**  
Cancan M.  
FIXED POINT THEORY AND APPLICATIONS, 2010 (SCI-Expanded)
- XXXII. **On Asymptotically ( $\lambda, \sigma$ )-Statistical Equivalent Sequences of Fuzzy Numbers**  
Savas E., Sevli H., Cancan M.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2010 (SCI-Expanded)
- XXXIII. **Sharp inequalities involving the constant e and the sequence  $(1 + 1/n)^n$**   
Batir N., Cancan M.  
International Journal of Mathematical Education in Science and Technology, vol.40, no.8, pp.1101-1109, 2009 (SCI-Expanded)

### Articles Published in Other Journals

- I. **On topological indices of double and strong double graph of silicon carbide  $\text{Si}_2\text{C}_3\text{-I}[p,q]$**   
Sardar M. S., Ali M. A., Ashraf F., Cancan M.  
Eurasian Chemical Communications, vol.5, no.1, pp.37-49, 2023 (Scopus)
- II. **Study of middle graph for certain classes of graph by applying degree-based topological indices**  
Sardar M. S., Ali M. A., Ashraf F., Cancan M.  
Eurasian Chemical Communications, vol.5, no.1, pp.50-62, 2023 (Scopus)
- III. **Domination version: Sombor index of graphs and its significance in predicting physicochemical properties of butane derivatives**  
Shashidhara A. A., Ahmed H., Soner Nandappa D., Cancan M.

- Eurasian Chemical Communications, vol.5, no.1, pp.91-102, 2023 (Scopus)
- IV. **Extremum sum-connectivity index of trees and unicyclic graphs**  
Shooshtari H., Motamedi R., Cancan M.  
ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, vol.15, no.11, 2022 (ESCI)
  - V. **Certain types of minimum covering Estrada index of graphs**  
Shooshtari H., Atapour M., Cancan M.  
ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, 2022 (ESCI)
  - VI. **Zagreb energy of some classes of graphs**  
Shooshtari H., Hatefi H., Cancan M.  
ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, vol.15, no.10, 2022 (ESCI)
  - VII. **Valency based topological descriptors of para line graph of Remdesivir used in the prevention of Corona virus**  
Rosary M. S., Haoer R. S., Cancan M., Tas Z.  
JOURNAL OF INFORMATION & OPTIMIZATION SCIENCES, vol.43, no.4, pp.821-835, 2022 (ESCI)
  - VIII. **Sharp upper bounds on forgotten and SK indices of cactus graph**  
Alsinai A., Rehman H. M. U., Manzoor Y., Cancan M., Farahani M. R.  
JOURNAL OF DISCRETE MATHEMATICAL SCIENCES & CRYPTOGRAPHY, 2022 (ESCI)
  - IX. **Enumeration of spanning trees in a chain of diphenylene graphs**  
Modabish A., Husin M. N., Alameri A. Q., Ahmed H., Alaeiyan M., Farahani M. R., Cancan M.  
JOURNAL OF DISCRETE MATHEMATICAL SCIENCES & CRYPTOGRAPHY, vol.25, no.1, pp.241-251, 2022 (ESCI)
  - X. **The study of the b-chromatic number of some classes of fractal graphs**  
Sattar T., Sardar M. S., Alaeiyan M., Farahani M. R., Cancan M., Tas Z.  
JOURNAL OF DISCRETE MATHEMATICAL SCIENCES & CRYPTOGRAPHY, vol.25, no.5, pp.1509-1524, 2022 (ESCI)
  - XI. **On Sombor indices of line graph of silicate carbide  $Si_2C_3-I[p,q]$**   
Asif F., Zahid Z., Husin M. N., Cancan M., Tas Z., Alaeiyan M., Farahani M. R.  
JOURNAL OF DISCRETE MATHEMATICAL SCIENCES & CRYPTOGRAPHY, vol.25, no.1, pp.301-310, 2022 (ESCI)
  - XII. **Degree distance based topological indices of some graph transforms**  
Patil S., Hosamani S. M., Shirkol S. S., Cancan M., Farahani M. R., Kalynashetti M.  
JOURNAL OF DISCRETE MATHEMATICAL SCIENCES & CRYPTOGRAPHY, vol.25, no.1, pp.283-300, 2022 (ESCI)
  - XIII. **Construction of Petersen graph via graph product and correlation of topological descriptors of Petersen graph in terms of cyclic graph C-5**  
Waheed M., Saleem U., Cancan M., Tas Z., Alaeiyan M., Farahani M. R.  
JOURNAL OF DISCRETE MATHEMATICAL SCIENCES & CRYPTOGRAPHY, vol.25, no.5, pp.1525-1534, 2022 (ESCI)
  - XIV. **Some new degree based topological indices of h-naphtalenic graph via M-polynomial approach**  
Afzal F., Alsinai A., Zeeshan M., Afzal D., Chaudhry F., Cancan M.  
EURASIAN CHEMICAL COMMUNICATIONS, vol.3, no.11, pp.800-805, 2021 (ESCI)
  - XV. **Closed Formulas of Topological Properties for Remdesivir (C<sub>27</sub>H<sub>35</sub>N<sub>6</sub>O<sub>8</sub>P)**  
Hussain S., Alsinai A., Afzal D., Maqbool A., Afzal F., Cancan M.  
CHEMICAL METHODOLOGIES, vol.5, no.6, pp.485-497, 2021 (ESCI)
  - XVI. **On computation of latest topological descriptors of some cactus chains graphs via M-polynomial**  
Afzal F., Hussain H., Afzal D., Farahani M. R., Cancan M., Ediz S.  
JOURNAL OF INFORMATION & OPTIMIZATION SCIENCES, vol.42, no.7, pp.1437-1446, 2021 (ESCI)
  - XVII. **A study of non-commutative Von-Neumann regular rings**  
Afzal F., Rukh S., Afzal D., Farahani M. R., Cancan M., Ediz S.  
JOURNAL OF INFORMATION & OPTIMIZATION SCIENCES, vol.42, no.7, pp.1425-1436, 2021 (ESCI)
  - XVIII. **Calculating the topological indices of Starphene graph via M-polynomial approach**  
Chaudhry F., Sattar S., Ehsan M., Afzal F., Farahani M. R., Cancan M.  
EURASIAN CHEMICAL COMMUNICATIONS, vol.3, no.10, pp.656-664, 2021 (ESCI)
  - XIX. **Base polynomials for degree and distance based topological invariants of n-bilinear straight pentachain**  
Nizami A. R., Shabbir K., Sardar M. S., Qasim M., Cancan M., Ediz S.

- JOURNAL OF INFORMATION & OPTIMIZATION SCIENCES, vol.42, no.7, pp.1479-1495, 2021 (ESCI)
- XX. **A comparative analysis of consensus protocols for dealing power theft issue in Pakistan**  
Maqbool A., Sattar S., Naheed A., Khalid S., Rana T., Afzal F., Cancan M.  
JOURNAL OF INFORMATION & OPTIMIZATION SCIENCES, vol.42, no.7, pp.1523-1540, 2021 (ESCI)
- XXI. **On k-total distance degrees and k-total Wiener polarity index**  
Ediz S., Çiftçi İ., Cancan M., Farahani M. R.  
JOURNAL OF INFORMATION & OPTIMIZATION SCIENCES, vol.42, no.7, pp.1469-1477, 2021 (ESCI)
- XXII. **Bounds on partition dimension of Peterson graphs**  
Khalaf A. J. M., Nadeem M. F., Azeem M., Cancan M., Farahani M. R.  
JOURNAL OF INFORMATION & OPTIMIZATION SCIENCES, vol.42, no.7, pp.1569-1588, 2021 (ESCI)
- XXIII. **Resistance distance in some classes of rooted product graphs obtained by Laplacian generalized inverse method**  
Sardar M. S., Alaeiyan M., Farahani M. R., Cancan M., Ediz S.  
JOURNAL OF INFORMATION & OPTIMIZATION SCIENCES, vol.42, no.7, pp.1447-1467, 2021 (ESCI)
- XXIV. **Topological analysis of zigzag-edge coronoid graph by using M-polynomial**  
Ehsan M., Sattar S., Chaudhry F., Afzal F., Farahani M. R., Cancan M.  
EURASIAN CHEMICAL COMMUNICATIONS, vol.3, no.9, pp.590-597, 2021 (ESCI)
- XXV. **On eccentricity-based entropy measures for dendrimers**  
Huang R., Siddiqui M. K., Manzoor S., Ahmad S., Cancan M.  
HELIYON, vol.7, no.8, 2021 (ESCI)
- XXVI. **Computational analysis of new degree-based descriptors of Zig-Zag Benzenoid system**  
Afzal F., Zaman M., Chaudhry F., Afzal D., Farahani M. R., Cancan M.  
EURASIAN CHEMICAL COMMUNICATIONS, vol.3, no.6, pp.418-424, 2021 (ESCI)
- XXVII. **National space legislation: A dire need for Pakistan**  
Cancan M., Mahsud M., Ullah S., Mahsud Z.  
JOURNAL OF STATISTICS & MANAGEMENT SYSTEMS, vol.24, no.4, pp.729-739, 2021 (ESCI)
- XXVIII. **Topological indices of the system of generalized prisms via M-Polynomial approach**  
Afzal F., Farahani M. R., Cancan M., Arshad F., Afzal D., Chaudhry F.  
EURASIAN CHEMICAL COMMUNICATIONS, vol.3, no.5, pp.296-300, 2021 (ESCI)
- XXIX. **Exploring drivers of luxury brand buying behavior : An empirical study**  
Akbar K., Mahsud M., Afzal F., Cancan M., Riaz I.  
JOURNAL OF STATISTICS & MANAGEMENT SYSTEMS, vol.24, no.4, pp.715-727, 2021 (ESCI)
- XXX. **Degree-based entropy of molecular structure of HAC(5)C(7)[P,Q]**  
Afzal F., Cancan M., Ediz S., Afzal D., Chaudhry F., Farahani M. R.  
EURASIAN CHEMICAL COMMUNICATIONS, vol.3, no.5, pp.291-295, 2021 (ESCI)
- XXXI. **Degree based topological indices of tadpole graph via M-polynomial**  
Chaudhry F., Ehsan M., Afzal F., Farahani M. R., Cancan M., Çiftçi İ.  
EURASIAN CHEMICAL COMMUNICATIONS, vol.3, no.3, pp.146-153, 2021 (ESCI)
- XXXII. **Theoretical study of benzene ring embedded in P-type surface in 2d network using some new degree based topological indices via M-polynomial**  
Hussain S., Afzal F., Afzal D., Farahani M. R., Cancan M., Ediz S.  
EURASIAN CHEMICAL COMMUNICATIONS, vol.3, no.3, pp.180-186, 2021 (ESCI)
- XXXIII. **Computing M-polynomial and topological indices of TUHRC4 molecular graph**  
Chaudhry F., Ehsan M., Afzal F., Farahani M. R., Cancan M., Çiftçi İ.  
EURASIAN CHEMICAL COMMUNICATIONS, vol.3, no.2, pp.103-109, 2021 (ESCI)
- XXXIV. **A note on QSPR analysis of total Zagreb and total Randic Indices of octanes**  
Ediza S., Çiftçi İ., Tas Z., Cancan M., Farahani M. R., Aldemir M. Ş.  
EURASIAN CHEMICAL COMMUNICATIONS, vol.3, no.2, pp.139-145, 2021 (ESCI)
- XXXV. **On computation of newly defined degree-based topological invariants of Bismuth Tri-iodide via M-polynomial**  
Hameed S., Husin M. N., Afzal F., Hussain H., Afzal D., Farahani M. R., Cancan M.

- JOURNAL OF DISCRETE MATHEMATICAL SCIENCES & CRYPTOGRAPHY, vol.24, no.7, pp.2073-2091, 2021 (ESCI)
- XXXVI. **On computation of M-polynomial and topological indices of starphene graph**  
Chaudhry F., Ehsan M., Afzal D., Farahani M. R., Cancan M., Ediz S.  
JOURNAL OF DISCRETE MATHEMATICAL SCIENCES & CRYPTOGRAPHY, vol.24, no.2, pp.401-414, 2021 (ESCI)
- XXXVII. **Reversed degree-based topological indices for Benzenoid systems**  
Khalaf A. J. M., Virk A. U. R., Ali A., Cancan M.  
Journal of Prime Research in Mathematics, vol.17, no.1, pp.40-47, 2021 (Scopus)
- XXXVIII. **An improved fast error convergence topology for PD alpha-type fractional-order ILC**  
Riaz S., Lin H., Mahsud M., Afzal D., Alsinai A., Cancan M.  
JOURNAL OF INTERDISCIPLINARY MATHEMATICS, vol.24, no.7, pp.2005-2019, 2021 (ESCI)
- XXXIX. **Weighted entropies of Tuc(5)c(8)[P;Q] nanotube with the degree based topological indices as weights**  
Afzal F., Afzal F., Afzal D., Farahani M. R., Cancan M., Ediz S.  
EURASIAN CHEMICAL COMMUNICATIONS, vol.3, no.1, pp.14-18, 2021 (ESCI)
- XL. **Nature of Graphs of Commutative Ring of Gaussian Integer modulo n under  $x^3 - 1$  mapping**  
Khalaf A. J. M., Nazeer S., Qayyum K., Cancan M.  
Journal of Prime Research in Mathematics, vol.17, no.2, pp.58-72, 2021 (Scopus)
- XLI. **Weighted entropies of HAC(5)C(7)[p;q] nanotube**  
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 3. ULUSLARARASI SOSYAL ve BEŞERİ BİLİMLER KONGRESİ, Van, Turkey, 20 - 22 December 2019, pp.767-775
- II. **On ve-degrees in direct and strong products of two graphs**  
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 International Conference On Pure And Applied Mathematics-ICPAM VAN-2018, Van, Turkey, 11 - 14 September 2018, pp.62
- III. **A study on the relationship between primary school social studies curriculum with math curriculum**  
 Görmez E., Mengi A., Cancan M., Bilgin E. A.  
 Caucasian Mathematics Conference (CMC)-II, Van, Turkey, 22 - 24 August 2017, pp.68
- IV. **On the stratified domination number of Mycielskians of some graphs**  
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 Caucasian Mathematics Conference II, Van, Turkey, 22 - 24 August 2017, pp.46
- V. **Inverted Distance and Inverted Wiener Index**  
 Cancan M., Ediz S.  
 International Conference On Pure And Applied Mathematics, Van, Turkey, 26 - 28 August 2015, pp.59
- VI. **Reverse Zagreb indices of Cartesian product of graphs**  
 Ediz S., Cancan M.  
 International Conference On Pure And Applied Mathematics, Van, Turkey, 26 - 28 August 2015, pp.76

## **Supported Projects**

Cancan M., Project Supported by Higher Education Institutions, İntuitionistic fuzzy normlu uzaylarda asimptotik yapı üzerine, 2011 - 2013

## **Scientific Refereeing**

Journal of Computational and Applied Mathematics, National Scientific Refreed Journal, June 2009

## **Metrics**

Publication: 143

Citation (WoS): 504

Citation (Scopus): 364

H-Index (WoS): 12

H-Index (Scopus): 9

## **Congress and Symposium Activities**

THE 2ND INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATIONS, Attendee, Kırşehir, Turkey, 2016

INTERNATIONAL CONFERENCE ON PURE AND APPLIED MATHEMATICS, Attendee, Van, Turkey, 2015