

## Asst. Prof. GÜL ÖZKAN KIZILIRMAK

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-3263-8685

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### Education

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2012 - 2017

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2011 - 2012

Postgraduate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Turkey 2010 - 2011

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 2008 - 2010

Undergraduate, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey 2005 - 2010

Undergraduate, Gazi University, Fen Fakültesi, Matematik Bölümü, Turkey 2004 - 2008

### Foreign Languages

German, C1 Advanced

### Dissertations

Doctorate, Bi-periyodik Fibonacci ve bi-periyodik Lucas dizilerinin periyotları üzerine, Gazi University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2017

Postgraduate, Gauss pell sayıları, Gazi University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2012

### Research Areas

### Academic Positions

Assistant Professor, Gazi University, Fen Fakültesi, Matematik, 2020 - Continues

Research Assistant, Gazi University, Fen Fakültesi, Matematik, 2010 - 2020

Research Assistant, Suleyman Demirel University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2009 - 2010

### Courses

#### Undergraduate

MAT 4003 ARAŞTIRMA PROJESİ I, Undergraduate, 2017 - 2018

MAT 101 GENEL MATEMATİK I, Undergraduate, 2017 - 2018

MAT 198 LİNEER CEBİR, Undergraduate, 2017 - 2018

MAT 102 MATEMATİK II, Undergraduate, 2017 - 2018

MAT 101 MATEMATİK I, Undergraduate, 2017 - 2018

## Journal articles indexed in SCI, SSCI, and AHCI

### I. On the Periods of Biperiodic Fibonacci and Biperiodic Lucas Numbers

Taşcı D., Özkan Kızılırmak G.

DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2016 (SCI-Expanded)

## Articles Published in Other Journals

### I. Bounds for the Elliptic Sombor Co-Index of Graph Operations

Ozkan Kizilirmak G.

Gazi Üniversitesi Fen Fakültesi dergisi (Online), vol.5, no.1, pp.1-10, 2024 (Peer-Reviewed Journal)

### II. ON THE QUADRA MERSENNE-JACOBSTHAL, QUADRA MERSENNE-PELL AND RELATED QUATERNION SEQUENCES

ÖZKAN KIZILIRMAK G., Çakaci S.

JOURNAL OF SCIENCE AND ARTS, no.1, pp.5-16, 2024 (ESCI)

### III. The bounds for topological invariants of a weighted graph using traces

SEVGİ E., ÖZKAN KIZILIRMAK G., BÜYÜKKÖSE Ş.

Open Journal of Discrete Applied Mathematics, 2023 (Peer-Reviewed Journal)

### IV. The eccentricity-based topological indices

ÖZKAN KIZILIRMAK G.

ACTA UNIVERSITATIS SAPIENTIAE INFORMATICA, 2023 (ESCI)

### V. Bounds of Fibonacci-sum graph for some distancebased topological indices and an application on BFS algorithm

ÖZKAN KIZILIRMAK G.

New Trends in Mathematical Sciences, 2023 (Peer-Reviewed Journal)

### VI. Bounds for some distance-based and degree-distance-based topological indices

Özkan Kızılırmak G.

Contributions to Mathematics, vol.6, pp.45-49, 2022 (ESCI)

### VII. On the Bi-Periodic Mersenne Sequence

ÖZKAN KIZILIRMAK G., TAŞCI D.

Fundamental journal of mathematics and applications (Online), vol.5, pp.160-167, 2022 (Peer-Reviewed Journal)

### VIII. THE BOUNDS FOR THE LARGEST EIGENVALUES OF FIBONACCI-SUM AND LUCAS-SUM GRAPHS

Taşcı D., Özkan Kızılırmak G., Sevgi E., Büyükköse Ş.

Turkish World Mathematical Society Journal of Applied and Engineering Mathematics, vol.12, no.1, pp.367-371, 2022 (ESCI)

### IX. On some identities and Hankel matrices norms involving new defined generalized modified pell numbers

ÖZKAN KIZILIRMAK G.

Journal of New Results in Science, vol.10, no.3, pp.60-66, 2021 (Peer-Reviewed Journal)

### X. Bir Grafın GCD Spektral Yarıçapı ve GCD Enerjisi İçin Alt ve Üst Sınırlar

Özkan Kızılırmak G., Sevgi E., Büyükköse Ş.

Gazi Üniversitesi Fen Fakültesi Dergisi, vol.2, no.2, pp.14-18, 2021 (Peer-Reviewed Journal)

### XI. PROPERTIES OF LUCAS-SUM GRAPH

TAŞCI D., BÜYÜKKÖSE Ş., ÖZKAN KIZILIRMAK G., SEVGİ E.

JOURNAL OF SCIENCE AND ARTS, no.2, pp.313-316, 2020 (ESCI)

### XII. Lambert Series in the Summation of Reciprocals in Gaussian Fibonacci Sequences

- ÖZKAN KIZILIRMAK G., TAŞCI D.  
Turkish Journal Of Mathematics and Computer Science, vol.11, no.1, pp.53-57, 2019 (Peer-Reviewed Journal)
- XIII. **EXPRESSION OF RECIPROCAL SUM OF GAUSSIAN LUCAS SEQUENCES BY LAMBERT SERIES**  
Özkan Kızılırmak G., Taşcı D.  
JOURNAL OF SCIENCE AND ARTS, no.3, pp.587-592, 2019 (Peer-Reviewed Journal)
- XIV. **Pisano Periods For The K-Fibonacci And K-Lucas Sequences Mod 2(n)**  
TAŞCI D., ÖZKAN KIZILIRMAK G.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.1, pp.213-220, 2018 (ESCI)
- XV. **Pisano Periods For The K-Fibonacci And K-Lucas Sequences Mod 2<sup>n</sup>**  
TAŞCI D., ÖZKAN KIZILIRMAK G.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.1, pp.213-220, 2018 (Scopus)

## Books

- I. **Graphs Associated with Number Sequences**  
Özkan Kızılırmak G., Büyükköse Ş.  
in: Research Highlights in Mathematics and Computer Science, Xingting Wang, Editor, Book pi, Abohar, pp.40-48, 2022
- II. **Graf Teori**  
BÜYÜKKÖSE Ş., KAYA GÖK G., ÖZKAN KIZILIRMAK G., EREN S.  
Nobel Akademik Yayıncılık, 2021
- III. **ON THE ZAGREB AND RANDIC INDICES OF A GRAPH**  
ÖZKAN KIZILIRMAK G., SEVGİ E.  
in: Research&Reviews in Science and Mathematics-I, Prof.Dr.Hasan AKGÜL, Prof.Dr. Alpaslan DAYANGAÇ, Editor, Gece Kitabı, Ankara, pp.169-186, 2021
- IV. **Yapay Zekâ Ve Büyük Veri Analizleri İçin Graf Teori**  
ÖZKAN KIZILIRMAK G., BÜYÜKKÖSE Ş.  
in: Yapay Zeka ve Büyük Veri Teknolojileri ve Yaklaşımları, Prof.Dr.Şeref SAĞIROĞLU, Dr. Mustafa Umur DEMİREZEN, Editor, Nobel Yayınevi, Ankara, pp.107-128, 2020

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Euler Revan Sombor Index**  
ÖZKAN KIZILIRMAK G.  
Euro Asia 12th. International Congress On Applied Sciences, Azerbaijan, 17 - 18 February 2025, (Summary Text)
- II. **Status Euler Sombor Index**  
ÖZKAN KIZILIRMAK G.  
Efes International Scientific Research and Innovation Congress-II, İzmir, Turkey, 21 - 23 February 2025, pp.547-548, (Summary Text)
- III. **Gourava Coindices**  
ÖZKAN KIZILIRMAK G., PENDİK Z. B.  
GAP 12th International Summit Scientific Research Congress, Gaziantep, Turkey, 29 - 31 May 2024, pp.65, (Summary Text)
- IV. **Application of Graphs to Integer Sequences**  
AYGÜL F. N., ÖZKAN KIZILIRMAK G.  
6th International Latin American Scientific Research Congress, Cuba, 1 - 03 February 2024, pp.31, (Summary Text)
- V. **GRAF TEORİSİNİN YAPAY ZEKA ÜZERİNE UYGULAMALARI**  
CANBAY K. N., ÖZKAN KIZILIRMAK G.  
9. ULUSLARARASI ANKARA BİLİMSEL ARAŞTIRMALAR KONGRESİ, Turkey, 28 December 2023, (Summary Text)

- VI. **Bounds for various graph energies**  
SEVGİ E., ÖZKAN KIZILIRMAK G., BÜYÜKKÖSE Ş., CANGÜL İ. N.  
International Conference on Applied Mathematics and Numerical Methods – fourth edition (ICAMNM 2022), Romania, 29 June - 02 July 2022, (Full Text)
- VII. **KUADRATİK MERSENNE-JACOBSTHAL VE KUADRATİK MERSENNE-PELL SAYILARI**  
ÖZKAN KIZILIRMAK G., ÇAKACI S.  
3. BASKENT INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY STUDIES, Turkey, 23 September 2022, (Full Text)
- VIII. **(a,b)-NIRMALA INDEX OF LUCAS-SUM GRAPH**  
ÖZKAN KIZILIRMAK G.  
7th INTERNATIONAL NEW YORK CONFERENCE ON EVOLVING TRENDS IN INTERDISCIPLINARY RESEARCH & PRACTICES, United States Of America, 01 October 2022, (Full Text)
- IX. **SOME (a,b)-KA INDICES OF LUCAS SUM GRAPH**  
Özkan Kızılırmak G.  
6th INTERNATIONAL CONFERENCE ON MATHEMATICS “An Istanbul Meeting for World Mathematicians”, İstanbul, Turkey, 21 - 24 June 2022, (Summary Text)
- X. **SOME RESULTS ON DEGREE-SUM, DEGREE SQUARE SUM, FIRST ZAGREB AND SECOND ZAGREB ENERGIES OF THE FIBONACCI SUM GRAPH**  
ÖZKAN KIZILIRMAK G., SEVGİ E., BÜYÜKKÖSE Ş.  
4th INTERNATIONAL AFRICAN CONFERENCE ON CURRENT STUDIES, Libya, 21 October 2021, (Full Text)
- XI. **BOUNDS FOR ZAGREB INDICES OF A GRAPH USING FIBONACCI NUMBERS**  
ÖZKAN KIZILIRMAK G.  
INTERNATIONAL AFGHANISTAN INTERDISCIPLINARY RESEARCH CONFERENCE, Mazar-i-Sharif, Afghanistan, 19 August 2021, (Full Text)
- XII. **Bounds For Some Energies Of Fibonacci-Sum Graphs**  
SEVGİ E., ÖZKAN KIZILIRMAK G., BÜYÜKKÖSE Ş.  
1. INTERNATIONAL MARMARA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, İstanbul, Turkey, 21 August 2021, (Full Text)
- XIII. **FİBONACCI- TOPLAM VE LUCAS- TOPLAM GRAFLARININ EN BÜYÜK ÖZDEĞERLERİ İÇİN SINIRLAR**  
TAŞCI D., ÖZKAN KIZILIRMAK G., BÜYÜKKÖSE Ş., SEVGİ E.  
Uluslararası 30 Ağustos Bilimsel Araştırmalar Sempozyumu, 28 - 31 August 2019, (Full Text)
- XIV. **Lucas-Toplam Grafların Özellikleri**  
TAŞCI D., ÖZKAN KIZILIRMAK G., SEVGİ E., BÜYÜKKÖSE Ş.  
Uluslararası 30 Ağustos Bilimsel Araştırmalar Sempozyumu, 28 - 31 August 2019, (Full Text)
- XV. **Gaussian Pell sayıların Ters Gösterimlerinin Sonsuz Toplamlar Üzerine**  
ÖZKAN KIZILIRMAK G., TAŞCI D.  
14. Ankara Matematik Günleri Sempozyumu, Ankara, Turkey, 28 - 29 June 2019, (Summary Text)
- XVI. **Lambert Series in the Summation of Reciprocals in Gaussian Fibonacci Sequences**  
TAŞCI D., ÖZKAN KIZILIRMAK G., SEVGİ E.  
INTERNATIONAL CONFERENCE ON MATHEMATICS “An Istanbul Meeting for World Mathematicians”  
Minisymposium on Approximation Theory Minisymposium on Math Education, 3 - 06 July 2018, (Summary Text)
- XVII. **Bi-Periodic Balancing Numbers**  
TAŞCI D., SEVGİ E., ÖZKAN KIZILIRMAK G.  
INTERNATIONAL CONFERENCE ON MATHEMATICS “An Istanbul Meeting for World Mathematicians”  
Minisymposium on Approximation Theory Minisymposium on Math Education, 3 - 06 July 2018, (Summary Text)
- XVIII. **On the bounds of eigenvalues of matrixs for bi-periodic Fibonacci and bi-periodic Lucas recurrence relations**  
TAŞCI D., ÖZKAN KIZILIRMAK G., BÜYÜKKÖSE Ş.  
International Conference on Mathematics and Mathematics Education, 11 - 13 May 2017, pp.134-136, (Summary Text)
- XIX. **k-Fibonacci and k-Lucas sequences taken to modulo m**

TAŐCI D., ÖZKAN KIZILIRMAK G.

International Conference on Mathematics and Mathematics Education 2017, 11 - 13 May 2017, (Summary Text)

## **Metrics**

Publication: 40

Citation (WoS): 1

Citation (Scopus): 1

H-Index (WoS): 1

H-Index (Scopus): 1

## **Non Academic Experience**

Gazi Üniversitesi, Arařtırma Görevlisi