

## Assoc. Prof. Gülistan KAYA GÖK

### Personal Information

**Email:** gulistankayagok@hakkari.edu.tr

**Web:** <https://avesis.hakkari.edu.tr/gulistankayagok>

### International Researcher IDs

ORCID: 0000-0001-9059-1606

Yoksis Researcher ID: 131598

### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2008 - 2014

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Turkey 2006 - 2008

Undergraduate, Bolu Abant İzzet Baysal University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2000 - 2005

### Dissertations

Doctorate, Serbest metabelyen nilpotent lie cebirlerinin sunumları, Cukurova University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2014

Postgraduate, n-boyutlu öklid ve ortogonal geometrilerde noktalar sistemlerinin denklik problemleri, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), 2008

### Academic Titles / Tasks

Assistant Professor, Hakkari University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2014 - Continues

Research Assistant, Cukurova University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2010 - 2014

Research Assistant, Hakkari University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2009 - 2010

### Academic and Administrative Experience

Hakkari University, 2022 - Continues

Hakkari University, 2021 - Continues

Hakkari University, 2016 - 2020

Hakkari University, 2014 - 2016

### Courses

#### Postgraduate

İleri Lineer Cebir, Postgraduate, 2021 - 2022

İleri Graf Teori, Postgraduate, 2021 - 2022

Yüksek Lisans Uzmanlık Alan Dersi, Postgraduate, 2021 - 2022

Yüksek Lisans Tez Hazırlık Dersi, Postgraduate, 2021 - 2022

Graf Teori, Postgraduate, 2021 - 2022

İleri Cebir, Postgraduate, 2021 - 2022

### **Undergraduate**

Matematiğin Temelleri 1, Undergraduate, 2021 - 2022, 2020 - 2021

Lineer Cebir 1, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Soyut Matematik, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Cebir, Undergraduate, 2021 - 2022, 2020 - 2021

Matematik Tarihi, Undergraduate, 2021 - 2022, 2020 - 2021

Olasılık, Undergraduate, 2021 - 2022, 2020 - 2021

Lineer Cebir 2, Undergraduate, 2020 - 2021, 2019 - 2020

Matematik Öğretimi II, Undergraduate, 2019 - 2020

Analiz 3, Undergraduate, 2019 - 2020

Kompleks Değişkenler Teorisi, Undergraduate, 2018 - 2019

Analiz 1, Undergraduate, 2018 - 2019

Analiz 2, Undergraduate, 2018 - 2019

MATEMATİK II, Undergraduate, 2017 - 2018

Temel Matematik I, Undergraduate, 2017 - 2018

Matematik Öğretimi 1, Undergraduate, 2016 - 2017, 2015 - 2016

MATEMATİK VE SANAT, Undergraduate, 2016 - 2017, 2014 - 2015

Matematik Öğretimi 2, Undergraduate, 2016 - 2017

MATEMATİK VE OYUN, Undergraduate, 2015 - 2016, 2014 - 2015

Temel Matematik II, Undergraduate, 2014 - 2015

Genel Matematik 1, Undergraduate, 2014 - 2015

KİM KORKAR MATEMATİKTEN, Undergraduate, 2014 - 2015

Genel Matematik 2, Undergraduate, 2014 - 2015

Temel Matematik 1, Undergraduate, 2014 - 2015

### **Associate Degree**

Ticari Matematik, Associate Degree, 2016 - 2017

Matematik 1, Associate Degree, 2014 - 2015

## **Supervised Theses**

Gülistan K. G., Sombor Index and Sombor Energy, Postgraduate, K.ÇELİK(Student), 2024

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

### **I. Some bounds for the resolvent energy**

KAYA GÖK G., Ashrafi A. R.

Applied Mathematics and Computation, vol.397, 2021 (SCI-Expanded)

### **II. On the topological matrix and topological indices**

KAYA GÖK G.

AKCE International Journal of Graphs and Combinatorics, vol.17, no.1, pp.252-258, 2020 (SCI-Expanded)

## **Articles Published in Other Journals**

### **I. SOME NOTES ON THE LAPLACIAN ENERGY OF EXTENDED ADJACENCY MATRIX**

KAYA GÖK G., BÜYÜKKÖŞE Ş.

Journal of Science and Arts, vol.3, no.52, pp.511-518, 2020 (Peer-Reviewed Journal)

### **II. Bounds on the Path Energy**

- KAYA GÖK G.  
Journal of New Theory, no.30, pp.63-67, 2020 (Peer-Reviewed Journal)
- III. **On The Reformulated Zagreb Coindex**  
KAYA GÖK G.  
Journal of New Theory, no.28, pp.28-32, 2019 (Peer-Reviewed Journal)
- IV. **On The Inverse Sum In Degree Index and Co Index**  
KAYA GÖK G.  
CUMHURİYET SCIENCE JOURNAL, vol.40, no.2, pp.369-377, 2019 (Peer-Reviewed Journal)
- V. **On the Forgetten Topological Index and Co Index**  
kaya gök g.  
Avrupa Bilim ve Teknoloji Dergisi, vol.0, no.15, pp.308-314, 2019 (Peer-Reviewed Journal)
- VI. **A Note on the Spectral Radius of Weighted Signless Laplacian Matrix**  
BÜYÜKKÖSE Ş., MUTLU N., KAYA GÖK G.  
Advances in Linear Algebra Matrix Theory, vol.8, no.1, pp.53-63, 2018 (Peer-Reviewed Journal)
- VII. **A Note on The Weighted Wiener Index and The Weighted Quasi-Wiener Index**  
BÜYÜKKÖSE Ş., MUTLU N., KAYA GÖK G.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.30, no.4, pp.413-419, 2017 (Scopus)
- VIII. **A Presentation of the Free Lie Algebra  $M_{(2,m)}$**   
KAYA GÖK G.  
MATHEMATICS AND STATISTICS (ALHAMBRA), vol.5, no.3, pp.130-134, 2017 (Peer-Reviewed Journal)
- IX. **A Presentation of the Free Lie Algebra  $M_{(2,m,3)}$**   
KAYA GÖK G.  
MATHEMATICS AND STATISTICS (ALHAMBRA), vol.4, no.3, pp.71-75, 2016 (Peer-Reviewed Journal)
- X. **A Presentation of The Free Lie Algebra  $F/\Gamma(3,F)$**   
KAYA GÖK G.  
Mathematical Sciences and Applications E-Notes, vol.4, no.1, pp.24-30, 2016 (Peer-Reviewed Journal)
- XI. **A Presentation of  $M_{(2,5)}$**   
KAYA GÖK G.  
INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.84, no.1, pp.85-98, 2013 (Scopus)

## Books

- I. **SOME BOUNDS ON ARITHMETIC GEOMETRIC INDEX**  
ŞIKŞAK M., KAYA GÖK G.  
in: Recent Researches and Reviews in Mathematics and Natural Science, Rıdvan Karapınar, Editor, Livre de Lyon, Lyon, pp.139-150, 2022
- II. **THE DIFFERENCES BETWEEN GEOMETRIC ARITHMETIC INDEX AND HARMONIC INDEX**  
ÇELİK K., KAYA GÖK G.  
in: Recent Approaches in Mathematics and Natural Science, Prof. Dr. M. Çiğdem SAYIL, Editor, Livre de Lyon, Lyon, pp.132-143, 2022
- III. **Ağırlıklı Derece Kırchhoff İndeksi İçin Yaklaşımlar**  
KAYA GÖK G.  
in: Doğa ve Mühendislik Bilimlerinde Güncel Tartışmalar 7 , Hikmet Y. ÇOĞUN, Hasan ÜZMUŞ, İshak PARLAR, Editor, Engin DEVREZ, Bilgin Kültür Sanat Yayınları, Ankara, pp.487-497, 2022
- IV. **Graf Teori**  
BÜYÜKKÖSE Ş., KAYA GÖK G., ÖZKAN KIZILIRMAK G., EREN S.  
Nobel Akademik Yayıncılık, Ankara, 2021
- V. **Graf Teoriye Giriş**  
BÜYÜKKÖSE Ş., KAYA GÖK G.  
NOBEL AKADEMİK YAYINCILIK EĞİTİM DANIŞMANLIK TİC. LTD. ŞTİ., AKARA, 2019

**VI. Açıklamalı Graf Teori Terimleri Sözlüğü**

KAYA GÖK G., BÜYÜKKÖSE Ş., BEKKİ S.  
Pegem Akademi, Ankara, 2018

**Papers Published in Refereed Scientific Meetings**

- I. **WEIGHTED SOMBOR INDEX**  
ÇELİK K., KAYA GÖK G.  
ISARC INTERNATIONAL SCIENCE AND ART RESEARCH, Batman, Turkey, 29 April 2023, pp.862-873
- II. **Ağırlıklı Grafların Patika Matrisi ve Patika Enerjisi**  
ŞAHİN S., KAYA GÖK G., BÜYÜKKÖSE Ş.  
1st International Conference on Engineering, Natural and Social Sciences, Konya, Turkey, 20 - 23 December 2022, pp.163-165
- III. **Some bounds for Sombor index**  
ÇELİK K., KAYA GÖK G.  
ALGEBRAIC COMBINATORICS WORKSHOP, Konya, Turkey, 22 - 23 July 2022, pp.15
- IV. **Different bounds for degree Kirchhoff index**  
KAYA GÖK G.  
4th INTERNATIONAL CONFERENCE ON PURE AND APPLIED MATHEMATICS, Van, Turkey, 22 - 23 June 2022, pp.109
- V. **SOME SPECIAL INEQUALITIES FOR DISTANCE ENERGY**  
KAYA GÖK G.  
2nd INTERNATIONAL MODERN SCIENTIFIC RESEARCH CONGRESS, İstanbul, Turkey, 23 - 25 December 2021, pp.953-958
- VI. **EQUIVALENCE IN ORTHOGONAL GROUPS**  
KAYA GÖK G.  
2nd INTERNATIONAL MODERN SCIENTIFIC RESEARCH CONGRESS, İstanbul, Turkey, 23 December 2021, pp.182-186
- VII. **SOME BOUNDS FOR THE DETOUR ENERGY**  
KINACI S., KAYA GÖK G.  
2nd INTERNATIONAL CONGRESS ON MATHEMATICS AND GEOMETRY, Ankara, Turkey, 20 May 2021, pp.217-221
- VIII. **On the ABC Index of Graphs**  
KAYA GÖK G.  
51th Annual Iranian Mathematics Conference, Kashan, Iran, 15 - 20 February 2021, pp.40
- IX. **Some Relations of Laplacian Resolvent Energy**  
EREN S., KAYA GÖK G.  
4. Çukurova Uluslararası Bilimsel Araştırmalar Kongresi, Adana, Turkey, 21 - 23 February 2020, pp.8-14
- X. **Some Relations of Resolvent Energy**  
KAYA GÖK G., EREN S.  
ISPEC 5. ULUSLARARASI MÜHENDİSLİK ve FEN BİLİMLERİ KONGRESİ, Van, Turkey, 20 - 22 December 2019, vol.1, pp.258-262
- XI. **Some Inequalities for Atom- Bond Connectivity Index**  
KAYA GÖK G., BÜYÜKKÖSE Ş.  
ISPEC 5 th INTERNATIONAL ON ENGINEERING AND NATURAL SCIENCES, Van, Turkey, 20 - 22 December 2019, vol.1, pp.77
- XII. **Some Bounds on the Topological Matrix and the Topological Indices**  
KAYA GÖK G., BÜYÜKKÖSE Ş.  
International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018, pp.367-368
- XIII. **On the Distance -Sum Connectivity Matrix**

KAYA GÖK G., BÜYÜKKÖSE Ş.

International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018, pp.100-101

**XIV. On the Distance Weighted Adjacency Matrix**

KAYA GÖK G., BÜYÜKKÖSE Ş.

Muş Alparslan Üniversitesi Uluslararası Stem ve Eğitim Bilimleri Kongresi, Muş, Turkey, 3 - 05 May 2018, pp.241-242

**XV. Some Bounds on the Extended Adjacency Matrix**

KAYA GÖK G., BÜYÜKKÖSE Ş.

Muş Alparslan Üniversitesi Uluslararası Stem ve Eğitim Bilimleri Kongresi, Muş, Turkey, 3 - 05 May 2018, pp.243-244

**XVI. Distance-Weighted Adjacency Matrix**

KAYA GÖK G., BÜYÜKKÖSE Ş.

Workshop on Graph Theory and Applications, Kocaeli, Turkey, 10 - 11 November 2017

**XVII. Eigenvalues of extended adjacency matrix**

KAYA GÖK G., BÜYÜKKÖSE Ş.

Caucasian Mathematics Conference, CMC II, 22 - 24 August 2017

**XVIII. Randic index of a graph using some graph operations**

ÇETİNKAYA K., BÜYÜKKÖSE Ş., KAYA GÖK G.

International Conference on Applied Mathematics and Analysis, 11 - 13 July 2016, pp.74

**XIX. Randic index of a weighted graph using graph operations**

ÇETİNKAYA K., BÜYÜKKÖSE Ş., KAYA GÖK G.

International Conference on Applied Mathematics and Analysis, 11 - 13 July 2016, pp.47

**XX. A Presentation of Free Lie Algebra  $F/\Gamma(3,F)$**

KAYA GÖK G., BÜYÜKKÖSE Ş., MUTLU N.

IECSMA-2015, Athens, Greece, 31 August - 03 September 2015, pp.41

**XXI. Wiener Index of Weighted Graphs**

BÜYÜKKÖSE Ş., KAYA GÖK G., MUTLU N.

International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.67

**XXII. Kirchoff Index of weighted graphs**

KAYA GÖK G., BÜYÜKKÖSE Ş., MUTLU N.

International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.66

**XXIII. A Presentation of  $M_-(2,m)$**

KAYA GÖK G., EKİCİ N.

IECSMA-2014, 25 - 28 August 2014

## Metrics

Publication: 42

Citation (Scopus): 4

H-Index (Scopus): 1