

# Prof. Zeynep Kayar

## Personal Information

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## International Researcher IDs

ORCID: 0000-0002-8309-7930

Yoksis Researcher ID: 40752

## Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Mathematics, Turkey  
2005 - 2014

Undergraduate, Ankara University, Fen Fakültesi, Matematik, Turkey 2000 - 2004

## Foreign Languages

English, B2 Upper Intermediate

Spanish, B1 Intermediate

## Dissertations

Doctorate, Lyapunov Type Inequalities and Their Applications For Linear and Nonlinear Systems Under Impulse Effect (İmpuls Etkisi Altındaki Lineer ve Lineer Olmayan Sistemler İçin Lyapunov Tipi Eşitsizlikler ve Uygulamaları), Middle East Technical University, Graduate School Of Natural And Applied Sciences, Matematik, 2014

## Research Areas

Mathematics, Differential Equations, Natural Sciences

## Academic Titles / Tasks

Professor, Van Yüzüncü Yil University, Fen Fakültesi, Matematik Bölümü, 2024 - Continues

Associate Professor, Van Yüzüncü Yil University, Fen Fakültesi, Matematik Bölümü, 2019 - 2024

Assistant Professor, Van Yüzüncü Yil University, Fen Fakültesi, Matematik Bölümü, 2014 - 2019

Research Assistant PhD, Van Yüzüncü Yil University, Fen Fakültesi, Matematik Bölümü, 2014 - 2014

Research Assistant PhD, Middle East Technical University, Fen Fakültesi, Matematik, 2014 - 2014

Research Assistant, Middle East Technical University, Fen Fakültesi, Matematik, 2005 - 2014

## Academic and Administrative Experience

Ethics Committee Member, Van Yüzüncü Yıl University, Fen Fakültesi, Matematik Bölümü, 2024 - Continues  
Bölüm Kalite Komisyonu Üyesi, Van Yüzüncü Yıl University, Fen Fakültesi, Matematik Bölümü, 2021 - Continues

## Courses

### Postgraduate

Lineer Sınır Değer ve Özdeğer Problemleri, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2014 - 2015

İmpulsif Diferansiyel Denklemler, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

### Undergraduate

Analitik Geometri-II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Analitik Geometri-I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Genel Matematik-I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Genel Matematik II, Undergraduate, 2019 - 2020, 2018 - 2019

Genel Matematik-II, Undergraduate, 2017 - 2018, 2016 - 2017

Genel Matematik-I, Undergraduate, 2017 - 2018, 2016 - 2017

Lineer Cebir-II, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015

Lineer Cebir-I, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015

Mühendislik Matematiği, Undergraduate, 2015 - 2016

Mühendislik Matematiği, Undergraduate, 2015 - 2016, 2014 - 2015

## Supervised Theses

Kayar Z., Lyapunov type inequalities for fractional differential equations, Postgraduate, F.Akman(Student), 2021

Kayar Z., Some results on fractional boundary value problems with slit strip and multi strip boundary conditions (Yarık şerit ve çoklu şerit sınır koşullarına sahip kesirli sınır değer problemleri üzerine bazı sonuçlar), Postgraduate, D.Hashim(Student), 2017

Kayar Z., Sturmian comparison theory for nonlinear impulsive differential equations (Lineer olmayan impulsif diferansiyel denklemler için Sturm karşılaştırma teorisi), Postgraduate, S.Kamal(Student), 2017

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Van Yüzüncü Yıl Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Van Yüzüncü Yıl Üniversitesi, July, 2021

Post Graduate, Post Graduate, Van Yüzüncü Yıl Üniversitesi, June, 2021

Post Graduate, Post Graduate, Van Yüzüncü Yıl Üniversitesi, September, 2020

Doctorate, Doctorate, Van Yüzüncü Yıl Üniversitesi, May, 2020

Post Graduate, Tez Savunma Jürisi, Van Yüzüncü Yıl Üniversitesi, August, 2019

Post Graduate, Tez Savunma Jürisi, Van Yüzüncü Yıl Üniversitesi, February, 2019

Post Graduate, Tez Savunma Jürisi, Yüzüncü Yıl Üniversitesi, May, 2016

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

1. **Pachpatte type inequalities and their nabla unifications via convexity**  
Kayar Z., Kaymakçalan B.

Indian Journal of Pure and Applied Mathematics, 2024 (SCI-Expanded)

- II. **On the complementary nabla Pachpatte type dynamic inequalities via convexity**  
Kayar Z., Kaymakçalan B.  
Kuwait Journal of Science, vol.51, no.1, 2024 (SCI-Expanded)
- III. **Some Extended Nabla and Delta Hardy-Copson Type Inequalities with Applications in Oscillation Theory**  
Kayar Z., Kaymakçalan B.  
BULLETIN OF THE IRANIAN MATHEMATICAL SOCIETY, vol.48, no.5, pp.2407-2439, 2022 (SCI-Expanded)
- IV. **Lyapunov-type inequalities for higher-dimensional Hamiltonian systems on time scales: A new generalized vector zero approach**  
Kayar Z., Zafer A.  
Journal Of Mathematical Analysis And Applications, vol.512, no.2, pp.1-16, 2022 (SCI-Expanded)
- V. **Diamond alpha Bennett-Leindler type dynamic inequalities and their applications**  
Kayar Z., Kaymakçalan B., Pelen N. N.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.45, no.5, pp.2797-2819, 2022 (SCI-Expanded)
- VI. **Diamond alpha Hardy-Copson type dynamic inequalities**  
Kayar Z., Kaymakçalan B.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.51, no.1, pp.48-73, 2022 (SCI-Expanded)
- VII. **Applications of the novel diamond alpha Hardy-Copson type dynamic inequalities to half linear difference equations**  
Kayar Z., Kaymakçalan B.  
JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS, vol.28, pp.457-484, 2022 (SCI-Expanded)
- VIII. **Novel Diamond Alpha Bennett–Leindler Type Dynamic Inequalities and Their Applications**  
Kayar Z., Kaymakçalan B.  
Bulletin Of The Malaysian Mathematical Sciences Society, vol.45, no.2, pp.1-28, 2022 (SCI-Expanded)
- IX. **Hardy-Copson type inequalities for nabla time scale calculus**  
Kayar Z., Kaymakçalan B.  
Turkish Journal Of Mathematics, vol.45, no.2, pp.1040-1064, 2021 (SCI-Expanded)
- X. **Bennett–Leindler Type Inequalities for Nabla Time Scale Calculus**  
Kayar Z., Kaymakçalan B., Pelen N. N.  
Mediterranean Journal Of Mathematics, vol.18, no.1, pp.1-18, 2021 (SCI-Expanded)
- XI. **A New Gronwall-Bellman Inequality in Frame of Generalized Proportional Fractional Derivative**  
Alzabut J., Sudsutad W., Kayar Z., Baghani H.  
MATHEMATICS, vol.7, no.8, 2019 (SCI-Expanded)
- XII. **Lyapunov type inequalities and their applications for quasilinear impulsive systems**  
Kayar Z.  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, vol.13, no.1, pp.711-721, 2019 (SCI-Expanded)
- XIII. **STURM-PICONE COMPARISON THEOREMS FOR NONLINEAR IMPULSIVE DIFFERENTIAL EQUATIONS**  
Kayar Z., Masiha S. K. R.  
MATHEMATICA SLOVACA, vol.68, no.6, pp.1373-1384, 2018 (SCI-Expanded)
- XIV. **An existence and uniqueness result for linear fractional impulsive boundary value problems as an application of Lyapunov type inequality**  
Kayar Z.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.47, no.2, pp.287-297, 2018 (SCI-Expanded)
- XV. **Sturm-Picone comparison theorems for nonlinear impulsive differential equations with discontinuous solutions**  
Kayar Z., Masiha S. K.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.40, no.18, pp.7879-7888, 2017 (SCI-Expanded)
- XVI. **AN EXISTENCE AND UNIQUENESS RESULT FOR LINEAR SEQUENTIAL FRACTIONAL BOUNDARY VALUE PROBLEMS (BVPS) VIA LYAPUNOV TYPE INEQUALITY**  
Kayar Z.

- DYNAMIC SYSTEMS AND APPLICATIONS, vol.26, no.1, pp.147-156, 2017 (SCI-Expanded)
- XVII. **Matrix measure approach to Lyapunov-type inequalities for linear Hamiltonian systems with impulse effect**  
Kayar Z., Zafer A.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.440, no.1, pp.250-265, 2016 (SCI-Expanded)
- XVIII. **Lyapunov-type inequalities for nonlinear impulsive systems with applications**  
Kayar Z., Zafer A.  
Electronic Journal of Qualitative Theory of Differential Equations, no.27, pp.1-13, 2016 (SCI-Expanded)
- XIX. **Stability criteria for linear Hamiltonian systems under impulsive perturbations**  
Kayar Z., Zafer A.  
APPLIED MATHEMATICS AND COMPUTATION, vol.230, pp.680-686, 2014 (SCI-Expanded)
- XX. **Higher-Order Numerical Scheme for the Fractional Heat Equation with Dirichlet and Neumann Boundary Conditions**  
PRIYA G. S., PRAKASH P., NIETO J. J., Kayar Z.  
NUMERICAL HEAT TRANSFER PART B-FUNDAMENTALS, vol.63, no.6, pp.540-559, 2013 (SCI-Expanded)
- XXI. **Impulsive Boundary Value Problems for Planar Hamiltonian Systems**  
Kayar Z., Zafer A.  
ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Falling Body Motion in Time Scale Calculus**  
Pelen N. N., Kayar Z.  
Gazi University Journal of Science Part A: Engineering and Innovation, vol.11, no.1, pp.210-224, 2024 (Peer-Reviewed Journal)
- II. **Diamond-Alpha Pachpatte Type Dynamic Inequalities Via Convexity**  
Kayar Z., Kaymakçalan B.  
Differential Equations and Dynamical Systems, 2023 (ESCI)
- III. **THE COMPLEMENTARY NABLA BENNETT-LEINDLER TYPE INEQUALITIES**  
Kayar Z., KAYMAKÇALAN B.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.71, no.2, pp.349-376, 2022 (ESCI)
- IV. **Extensions of Diamond Alpha Hardy-Copson Type Dynamic Inequalities and Their Applications to Oscillation Theory**  
Kayar Z., Kaymakçalan B.  
Dynamic Systems And Applications, vol.30, no.7, pp.1180-1209, 2021 (Peer-Reviewed Journal)

## Books

- I. **Diamond-Alpha Hardy-Copson Type Dynamic Inequalities-I**  
KAYAR Z., KAYMAKÇALAN B.  
in: Dynamic Equations on Time Scales and Applications (1st ed.). , Agarwal Ravi P., Hazarika Bipan, Tikare Sanket, Editor, Chapman and Hall/CRC, pp.271-289, 2024
- II. **Diamond-Alpha Hardy-Copson Type Dynamic Inequalities-II**  
KAYAR Z., KAYMAKÇALAN B.  
in: Dynamic Equations on Time Scales and Applications, Agarwal Ravi P., Hazarika Bipan, Tikare Sanket, Editor, Chapman and Hall/CRC, pp.209-309, 2024
- III. **Dynamic Calculus and Equations on Time Scales**  
Kayar Z., Kaymakçalan B.

in: Generalized diamond alpha Bennett–Leindler-type dynamic inequalities, Svetlin G. Georgiev, Editor, De Gruyter, Massachusetts, pp.259-294, 2023

## Papers Published in Refereed Scientific Meetings

- I. **Concave generalizations of delta and nabla Bennett-Leindler type dynamic inequalities**  
Kayar Z., Kaymakçalan B.  
Approximation Theory and Special Functions-ATSF 2024 Conference - 8th Series, Ankara, Turkey, 4 - 07 September 2024, pp.183
- II. **Reversed nabla Pachpatte type dynamic inequalities**  
Kayar Z., Kaymakçalan B.  
International E-Conference on Mathematical and Statistical Science: A Selcuk Meeting (ICOMSS'23), Konya, Turkey, 5 - 07 June 2023, pp.131
- III. **Novel delta and nabla Pachpatte type inequalities via convexity**  
Kayar Z., Kaymakçalan B.  
4th International Conference on Pure and Applied Mathematics (ICPAM-VAN 2022), Van, Turkey, 22 - 23 June 2022, pp.110
- IV. **Delta ve nabla Hardy-Copson tipi eşitsizliklerin yeni formları ve dinamik denklemlere uygulanmaları**  
Kayar Z., Kaymakçalan B.  
33. Ulusal Matematik Sempozyumu, İstanbul, Turkey, 31 August - 03 September 2021, pp.64
- V. **Novel delta and nabla Hardy-Copson type inequalities and their applications to dynamic equations**  
Kayar Z., Kaymakçalan B.  
The 26th International Conference on Difference Equations and Applications (ICDEA 2021), Sarajevo, Bosnia And Herzegovina, 26 - 30 July 2021, pp.164
- VI. **Generalization of Hardy-Copson type inequalities to time scale nabla calculus**  
Kayar Z., Kaymakçalan B.  
International Conference on Pure and Applied Mathematics ICPAM-VAN 2020, Van, Turkey, 3 - 05 September 2020, pp.77
- VII. **A novel Lyapunov type inequality for linear discrete Hamiltonian systems**  
Kayar Z.  
XIX International Conference "Dynamical System Modeling and Stability Investigations" (DSMSI-2019), Kyiv, Ukraine, 22 - 24 May 2019, pp.55-56
- VIII. **Disconjugacy via Lyapunov type inequality for linear discrete Hamiltonian systems**  
Kayar Z.  
International Workshop on Dynamical Systems and Applications (IWDSA 2019), Ankara, Turkey, 3 - 04 May 2019, pp.47
- IX. **A novel Lyapunov type inequality for quasilinear impulsive systems**  
Kayar Z.  
International Conference on Pure and Applied Mathematics (ICPAM 2018), Van, Turkey, 11 - 13 September 2018, pp.93
- X. **Adjoint Riemann-Liouville and Caputo fractional differential operators**  
Kayar Z.  
International Congress of Mathematicians 2018 (ICM 2018), Rio De Janeiro, Brazil, 1 - 09 August 2018, pp.1
- XI. **Lyapunov type inequality for linear dynamic Hamiltonian systems**  
Kayar Z.  
The 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Taipei, Taiwan, 5 - 09 July 2018, pp.223
- XII. **Stability of linear periodic impulsive fractional differential equations**  
Kayar Z.  
Caucasian Mathematics Conference (CMC-II), Van, Turkey, 22 - 24 August 2017, pp.88

- XIII. **Stability criteria for linear periodic sequential fractional differential equations**  
Kayar Z.  
Recent Trends in Pure and Applied Mathematics, Alba Lulia, Romania, 31 July - 04 August 2017, pp.24
- XIV. **Nonlinear analogues of Sturm-Picone and Leighton type comparison theorems for impulsive differential equations with discontinuous solutions**  
Kayar Z.  
International Conference on Differential & Difference Equations and Applications 2017, Amadora, Portugal, 5 - 09 June 2017, pp.66-67
- XV. **Sturm-Picone Type Theorems for Second Order Nonlinear Impulsive Differential Equations**  
Kayar Z.  
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 19 - 25 September 2016, vol.1863
- XVI. **A generalized Lyapunov type inequality for fractional  $2n \times 2n$  Hamiltonian systems**  
Kayar Z.  
Conference on Applied Mathematics and Analysis (ICAMA 2016), Ankara, Turkey, 11 - 13 July 2016, pp.65
- XVII. **İkinci mertebeden lineer olmayan impulsif diferansiyel denklemler için Sturm-Picone tipi teoremler**  
Kayar Z.  
11. Ankara Matematik Günleri, Ankara, Turkey, 26 - 27 May 2016, pp.1
- XVIII. **İmpuls Etkisi Altındaki Lineer ve Lineer Olmayan Sistemler İçin Lyapunov Tipi Eşitsizlikler ve Uygulamaları**  
Kayar Z.  
Genç Matematikçiler Toplantısı, İzmir, Turkey, 13 - 18 September 2015, pp.12
- XIX. **Existence and Uniqueness Results For Linear Impulsive Fractional Boundary Value Problems (BVPs) via Lyapunov Type Inequality**  
Kayar Z.  
7-th International Conference on Mathematical Analysis, Differential Equation & Their Applications, Baku, Azerbaijan, 8 - 13 September 2015, pp.84
- XX. **Fractional Boundary Value Problems (BVPs) and Lyapunov Type Inequality**  
Kayar Z.  
International Conference on Pure and Applied Mathematics, Van, Turkey, 25 - 28 August 2015, pp.89
- XXI. **Kesirli Mertebeden Lineer İmpulsif Diferansiyel Denklemler İçin Homojen Olmayan Sınır Değer Problemleri (SDP)**  
Kayar Z.  
10. Ankara Matematik Günleri, Ankara, Turkey, 11 - 12 June 2015, pp.80
- XXII. **Existence and Uniqueness of Solutions of Inhomogenous Boundary Value Problem (BVP) for Linear Impulsive Fractional Differential Equations**  
Kayar Z.  
International Conference on Differential & Difference Equations and Applications, Lizbon, Portugal, 18 - 22 May 2015, pp.84
- XXIII. **Lyapunov type inequalities and stability criteria for linear planar periodic Hamiltonian systems under impulse effect**  
Kayar Z.  
International Congress of Mathematicians (ICM 2014), Seoul, South Korea, 13 - 21 August 2014, pp.1

## Supported Projects

Kayar Z., Project Supported by Higher Education Institutions, Lineer ayrık Hamiltonian sistemler için Lyapunov tipi eşitsizlik, 2019 - 2019

Kayar Z., Project Supported by Higher Education Institutions, The International Conference of Numerical Analysis and Applied Mathematics 2016 ICNAAM 2016 session on Difference & Differential Equations and Applications, 2016 - 2017

## Memberships / Tasks in Scientific Organizations

European Mathematical Society, Member, 2020 - Continues, Poland

The Turkish Mathematical Society , Member, 2014 - Continues, Turkey

Association for Turkish Women in Mathematics, Member, 2014 - Continues, Turkey

## Peer Reviews in Scientific Publications

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, December 2021

Journal of the Egyptian Mathematical Society, Other Indexed Journal, December 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, November 2021

Hacettepe Journal Of Mathematics And Statistics, Journal Indexed in SCI-E, November 2021

Journal of the Egyptian Mathematical Society, Other Indexed Journal, November 2021

International Journal of Mathematics and Computer Science, Journal Indexed in ESCI, November 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, October 2021

Palestine Journal of Mathematics, Other Indexed Journal, October 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, October 2021

Palestine Journal of Mathematics, Other Indexed Journal, September 2021

Palestine Journal of Mathematics, Other Indexed Journal, September 2021

JOURNAL OF INEQUALITIES AND APPLICATIONS, Journal Indexed in SCI-E, August 2021

Computational Methods for Differential Equations, Journal Indexed in ESCI, August 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, August 2021

Computational Methods for Differential Equations, Journal Indexed in ESCI, July 2021

Computational Methods for Differential Equations, Journal Indexed in ESCI, July 2021

Electronic Journal of Mathematical Analysis and Applications, Other Indexed Journal, July 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, June 2021

International Journal of Mathematics and Computer Science, Journal Indexed in ESCI, June 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, May 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, May 2021

Journal of Mathematical Extension, Journal Indexed in ESCI, May 2021

International Journal of Mathematics and Computer Science, Journal Indexed in ESCI, April 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, April 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, April 2021

Journal of Mathematical Extension, Journal Indexed in ESCI, March 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, March 2021

International Journal of Mathematics and Computer Science, Journal Indexed in ESCI, March 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, February 2021

Journal of Mathematical Analysis, Journal Indexed in ESCI, February 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, February 2021

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, January 2021

Computational Methods for Differential Equations, Journal Indexed in ESCI, December 2020

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, December 2020

Computational Methods for Differential Equations, Journal Indexed in ESCI, November 2020

Journal of Mathematical Analysis, Journal Indexed in ESCI, November 2020

ADVANCES IN DIFFERENCE EQUATIONS, Journal Indexed in SCI-E, November 2020

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, November 2020

Journal of Mathematical Analysis, Journal Indexed in ESCI, November 2020

Journal of Mathematical Analysis, Journal Indexed in ESCI, October 2020

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, September 2020

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, September 2020

ADVANCES IN DIFFERENCE EQUATIONS, Journal Indexed in SCI-E, September 2020  
International Journal of Mathematics and Computer Science, Journal Indexed in ESCI, July 2020  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, June 2020  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, June 2020  
International Journal of Mathematics and Computer Science, Journal Indexed in ESCI, June 2020  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, June 2020  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, May 2020  
International Journal of Mathematics and Computer Science, Journal Indexed in ESCI, May 2020  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, May 2020  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, May 2020  
Journal of the Egyptian Mathematical Society, Other Indexed Journal, April 2020  
Journal of the Egyptian Mathematical Society, Other Indexed Journal, April 2020  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, March 2020  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, March 2020  
TURKISH JOURNAL OF MATHEMATICS, Journal Indexed in SCI-E, March 2020  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, February 2020  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, February 2020  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, January 2020  
Journal of the Egyptian Mathematical Society, Other Indexed Journal, October 2019  
Communications Faculty of Sciences University of Ankara Series A1 Mathematics and Statistics, Journal Indexed in ESCI, September 2019  
Advances In Difference Equations, Journal Indexed in SCI-E, August 2019  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, April 2019  
Communications Faculty of Sciences University of Ankara Series A1 Mathematics and Statistics, Journal Indexed in ESCI, March 2019  
Journal Of Inequalities And Applications, Journal Indexed in SCI-E, March 2019  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, March 2019  
Journal Of Inequalities And Applications, Journal Indexed in SCI-E, February 2019  
Arab Journal of Basic and Applied Sciences, Other Indexed Journal, February 2019  
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, Journal Indexed in SCI-E, January 2019  
Arab Journal of Basic and Applied Sciences, Other Indexed Journal, December 2018  
Advances In Difference Equations, Journal Indexed in SCI-E, October 2018  
Advances In Difference Equations, Journal Indexed in SCI-E, September 2018  
Journal Of Inequalities And Applications, Journal Indexed in SCI-E, June 2018  
Journal of Nonlinear Sciences and Applications, Other Indexed Journal, November 2017  
European Physical Journal, Journal Indexed in SCI-E, May 2017  
Hacettepe Journal Of Mathematics And Statistics, Journal Indexed in SCI-E, May 2017  
Journal of the Egyptian Mathematical Society, Other Indexed Journal, February 2017  
Discrete Dynamics In Nature And Society, Journal Indexed in SCI-E, January 2017

### **Scientific Project Refereeing**

TUBITAK Project, 1002 - Quick Support Program, June 2021

TUBITAK Project, 2229 - Undergraduate and Pre-License, Lect. and Teacher Scientific Impact. DPA, February 2019

### **Tasks In Event Organizations**

Kayar Z., Akgün N., 3rd International Conference on Pure and Applied Mathematics ICPAM-VAN 2020, Scientific Congress, Van, Turkey, Eylül 2020



Kayar Z., Akgün N., 2nd International Conference on Pure and Applied Mathematics, ICPAM - VAN 2018, Scientific Congress, Van, Turkey, Eylül 2018

Kayar Z., Caucasian Mathematics Conference (CMC-II), Scientific Congress, Van, Turkey, Ağustos 2017

Kayar Z., Akgün N., International Conference on Pure and Applied Mathematics (ICPAM 2015), Scientific Congress, Van, Turkey, Ağustos 2015

Kayar Z., 12th International Workshop on Dynamical Systems and Applications (IWDSA 2013), Scientific Congress, Ankara, Turkey, Ağustos 2013

## Metrics

Publication: 51

Citation (WoS): 55

Citation (Scopus): 88

H-Index (WoS): 4

H-Index (Scopus): 6

## Congress and Symposium Activities

33rd National Mathematics Symposium, Attendee, İstanbul, Turkey, 2021

The 26th International Conference on Difference Equations and Applications (ICDEA 2021), Attendee, Sarajevo, Bosnia And Herzegovina, 2021

International Conference on Pure and Applied Mathematics ICPAM-VAN 2020, Attendee, Van, Turkey, 2020

XIX International Conference "Dynamical System Modeling and Stability Investigations" (DSMSI-2019), Attendee, Kyiv, Ukraine, 2019

International Workshop on Dynamical Systems and Applications (IWDSA 2019), Attendee, Ankara, Turkey, 2019

VI. Kadın Matematikçiler Derneği Çalıştayı, Attendee, Konya, Turkey, 2019

International Conference on Pure and Applied Mathematics (ICPAM 2018), Attendee, Van, Turkey, 2018

International Congress of Mathematicians 2018 (ICM 2018), Attendee, Rio-De-Janeiro, Brazil, 2018

The 12th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Attendee, Taipei, Taiwan, 2018

Caucasian Mathematics Conference (CMC-II), Attendee, Van, Turkey, 2017

Recent Trends in Pure and Applied Mathematics (TREPAM 2017), Attendee, Romania, 2017

Caucasian Mathematics Conference (CMC-II), Session Moderator, Van, Turkey, 2017

International Conference on Differential & Difference Equations and Applications 2017, Attendee, Amadora, Portugal, 2017

14 th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Attendee, Ródos, Greece, 2016

Conference on Applied Mathematics and Analysis (ICAMA 2016), Attendee, Ankara, Turkey, 2016

11. Ankara Matematik Günleri, Attendee, Ankara, Turkey, 2016

7-th International Conference on Mathematical Analysis, Differential Equation & Their Applications, Attendee, Baku, Azerbaijan, 2015

Genç Matematikçiler Toplantısı, Attendee, İzmir, Turkey, 2015

International Conference on Pure and Applied Mathematics, Session Moderator, Van, Turkey, 2015

International Conference on Pure and Applied Mathematics, Attendee, Van, Turkey, 2015

10. Ankara Matematik Günleri, Attendee, Ankara, Turkey, 2015

International Conference on Differential & Difference Equations and Applications, Attendee, Lisboa, Portugal, 2015

International Conference on Differential & Difference Equations and Applications, Session Moderator, Lisbon, Portugal, 2015

International Congress of Mathematicians, Attendee, Seoul, South Korea, 2014

International Conference on Nonlinear Differential and Difference Equations: Recent Developments and Applications, Attendee, Antalya, Turkey, 2014  
12th International Workshop on Dynamical Systems and Applications, Attendee, Ankara, Turkey, 2013  
Workshop on Qualitative Theory for Differential Equations, Attendee, Spain, 2012  
10. Dinamik Sistemler alıřtayı, Attendee, Kocaeli, Turkey, 2011  
8th International ISAAC Congress, Attendee, Moskva, Russia, 2011  
International Conference on Differential & Difference Equations and Applications, Attendee, Ponta Delgada, Portugal, 2011  
International Conference on Differential & Difference Equations and Applications, Session Moderator, Ponta-Delgada, Portugal, 2011  
Matematik Lisansüstü alıřtayı-1, Attendee, İstanbul, Turkey, 2010  
7th International ISAAC Congress, Attendee, London, United Kingdom, 2009  
4. Ankara Matematik Günleri, Attendee, Ankara, Turkey, 2009  
8. Ankara Diferansiyel Denklemler alıřtayı, Attendee, İstanbul, Turkey, 2008

## **Scholarships**

Doktora Bursu, TUBITAK, 2005 - 2010

## **Awards**

Kayar Z., 2013-2014 Yılı En İyi Doktora Tezi Ödülü, ODTÜ, May 2015