

## Prof. Yusuf ZEREN

### Personal Information

**Office Phone:** [+90 212 383 4375](tel:+902123834375)

**Email:** [yzeren@yildiz.edu.tr](mailto:yzeren@yildiz.edu.tr)

**Other Email:** [yusufzeren@hotmail.com](mailto:yusufzeren@hotmail.com)

**Web:** <https://avesis.yildiz.edu.tr/yzeren>

**Address:** Yıldız Teknik Üniversitesi, Davutpaşa Kampüsü, Fen Edebiyat Fakültesi, Matematik Bölümü, E-2017, Esenler, İstanbul

### International Researcher IDs

ScopusID: 15057241500

Yoksis Researcher ID: 185812

### Education Information

Post Doctorate, Cincinnati State Technical and Community College, Mathematics, United States Of America 2012 - 2012

Doctorate, Ankara University, Faculty Of Science, Department Of Mathematics, Turkey 1997 - 2002

Postgraduate, Harran University, Faculty Of Arts And Sciences, Department Of Mathematics, Turkey 1994 - 1996

Undergraduate, Firat University, Faculty Of Arts And Sciences, Matematik, Turkey 1989 - 1993

### Certificates, Courses and Trainings

Personal Evolution, Başarıya Giden Yolda Niçin ve Nasıl Çalışmalıyız, İstanbul Ticaret Üniversitesi, 2022

Personal Evolution, Geleceğin Türkiye'sinde Başarmak İçin, Mardin Artuklu Üniversitesi, 2022

Education Management and Planning, Uygulamalı Ar-Ge Proje Yazımı ve Yönetimi, Tübitak, 2014

Education Management and Planning, Eğitimcilerin Eğitimi Semineri, Tübitak, 2005

IT, Bilgisayar İşletmenliği, Gazi Üniversitesi, 2000

### Dissertations

Doctorate, Türevlenebilir fonksiyonlara lineer pozitif integral operatörler aileleriyle yaklaşımının asimptotik değeri, Ankara University, Faculty Of Science, Department Of Mathematics, 2002

Postgraduate, Bazı dizi uzayları ve matris dönüşümleri, Harran University, Faculty Of Science And Letters, Department Of Mathematics, 1996

### Research Areas

Mathematics, Multivariate Complex Functions and Analytic Spaces, Computer Science, Differential Equations, Sequences, Series, Summability, Functional Analysis, Fourier Analysis, General Mathematics, General Topology, Real Functions, Integral Equations, Integral Transformations, Computational Calculation, Functions of a Complex Variable, Mathematics Education, Operators, Measure and Integration, Potential Theory, Abstract Harmonic Analysis, Natural Sciences

## Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2022 - Continues  
Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2015 - 2022  
Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2010 - 2015  
Assistant Professor, Harran University, Faculty Of Arts And Sciences, Department Of Mathematics, 2005 - 2010  
Research Assistant, Harran University, Faculty Of Arts And Sciences, Department Of Mathematics, 2002 - 2005  
Research Assistant, Ankara University, Faculty Of Science, Department Of Mathematics, 1997 - 2002  
Research Assistant, Harran University, Faculty Of Arts And Sciences, Department Of Mathematics, 1995 - 1997

## Academic and Administrative Experience

Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2020 - Continues  
Rectorate Commissioner, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2018 - Continues

## Courses

Uzmanlık Alan Dersi(Doktora), Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014  
Bitirme Çalışması, Undergraduate, 2021 - 2022, 2019 - 2020  
Doktora Tezi, Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Matematik II, Undergraduate, 2021 - 2022  
Matematik 1, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014  
Yüksek Lisans Tezi, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014  
Uzmanlık Alan Dersi(Yüksek Lisans), Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013  
Harmonic Analysis 1, Postgraduate, 2019 - 2020, 2015 - 2016, 2011 - 2012, 2010 - 2011  
Kompleks Fonksiyonlar Teorisi 2, Undergraduate, 2019 - 2020, 2018 - 2019  
Operatör Teorisi 1, Postgraduate, 2020 - 2021, 2014 - 2015, 2012 - 2013  
Kompleks Fonksiyonlar Teorisi 1, Undergraduate, 2019 - 2020, 2012 - 2013  
Functional Analysis 2, Doctorate, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Kompleks Fonksiyonlar Teorisine Giriş 1, Undergraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2012 - 2013  
Functional Analysis1, Doctorate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015  
Matematik Analiz 1, Undergraduate, 2015 - 2016, 2013 - 2014  
Lineer Operatörlere Giriş , Undergraduate, 2015 - 2016, 2013 - 2014  
Seminer, Postgraduate, 2016 - 2017  
Fonksiyonel Analize Giriş, Undergraduate, 2014 - 2015, 2012 - 2013  
Lineer Operatörler 1, Postgraduate, 2013 - 2014, 2011 - 2012  
Topolojiye Giriş, Undergraduate, 2013 - 2014  
Matematik II, Undergraduate, 2012 - 2013  
Matematik I, Undergraduate, 2013 - 2014  
Fonksiyonel Analiz 1, Undergraduate, 2012 - 2013  
Matematik 2, Undergraduate, 2009 - 2010, 2008 - 2009

## Advising Theses

Zeren Y., Banach fonksiyon Uzaylarında Bazı Trigonometrik ve Üstel Sistemlerin Bazlık Özellikleri, Postgraduate, M.ÖZÜKANAR(Student), Continues

Zeren Y., Some Problems of Spectral Theory of Differential Operators and Solvability Problems of Elliptic Equations in Nonstandard Function Spaces, Doctorate, F.Elif(Student), Continues

Zeren Y., Solvability Problems of Elliptic Equations in non-standart Banach-Sobolev Function Spaces, Doctorate, Ş.ÇETİN(Student), 2023

Zeren Y., Grand-Lebesgue Uzaylarında Dejenere Üstel Sistemlerin Frame Özellikleri, Doctorate, K.ŞİMŞİR(Student), 2023

Zeren Y., Pseudosimetrik Banach Fonksiyon Uzayları , Postgraduate, F.Elif(Student), 2022

Zeren Y., İkinci dereceden süreksiz bir diferansiyel operatörün spektral özellikleri, Doctorate, F.ŞİRİN(Student), 2021

Zeren Y., Korovkin Tipli İntegral Operatörlerin İstatistiksel Yakınsaklığı, Doctorate, C.Karaçam(Student), 2021

Zeren Y., Inital Value Problem for Schrödinger Equation Containing Kurzweil Henstock Integral, Postgraduate, K.AKSOY(Student), 2021

Zeren Y., Yeniden Düzenlenmiş-Değişmez Uzaylarda Katı Singüler Gömmeler, Postgraduate, E.DENİZ(Student), 2019

Zeren Y., Banach Fonksiyon Uzayları Üzerinde Fourier Serisi, Postgraduate, S.YAVUZ(Student), 2019

Zeren Y., Değişken üslü lineer olmayan eliptik denklemler, Postgraduate, C.KAZAR(Student), 2019

Zeren Y., Hardy-Littlewood maksimal operatörünün değişken üslü lebesgue uzayında sınırlılığı, Postgraduate, M.DİKMEN(Student), 2017

Zeren Y., Hardy operatörünün diferansiyel denklemlere uygulaması, Postgraduate, K.ŞİMŞİR(Student), 2017

Zeren Y., Frame teori ve ayrılabilir olmayan Hilbert uzayında Bessel sistemi, Postgraduate, Y.SAÇLI(Student), 2017

Zeren Y., Bazı eşitsizlikler ve uygulamaları, Postgraduate, Y.SARICA OĞLU(Student), 2017

ZEREN Y., Approximation by Positive Operators in some Banach Spaces, Postgraduate, F.ŞİRİN(Student), 2016

ZEREN Y., Ağırlıklı Değişken üslü Lebesgue Uzayında Hardy Operatörünün Kompaktlığı, Doctorate, L.AKIN(Student), 2016

ZEREN Y., Maksimal, Potansiyel ve Singüler İntegral Operatörlerinin Modifiye Olmuş Morrey Uzaylarında Sınırlılığı, Postgraduate, H.ARMUTCU(Student), 2016

ZEREN Y., Morrey Tip Uzaylarda Yaklaşım Teorisinin Bazı Problemleri, Postgraduate, Ş.ÇETİN(Student), 2016

Zeren Y., Morrey Uzaylarında Riesz Potansiyelinin Bazı Özellikleri, Postgraduate, C.KARAÇAM(Student), 2015

Zeren Y., İntegral operatör aileleriyle genelleştirilmiş türevlere yaklaşım, Postgraduate, L.AKIN(Student), 2008

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Ticaret Üniversitesi, June, 2022

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, January, 2022

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, December, 2021

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, December, 2021

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, December, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2020

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, November, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Ticaret Üniversitesi, December, 2019

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, November, 2019

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, November, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Ticaret Üniversitesi, June, 2019  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, May, 2019  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, May, 2019  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, November, 2017  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, November, 2017  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, May, 2017  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, May, 2017  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, November, 2016  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, November, 2016  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, May, 2016  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, May, 2015  
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, May, 2014  
Post Graduate, Post Graduate, Harran Üniversitesi, May, 2008

## Taught Courses And Trainings

Zeren Y., Erasmus Ders Verme Hareketliliği, Romanya, 2014 - 2014  
Zeren Y., Erasmus Ders Verme Hareketliliği, İtalya, 2012 - 2012

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

- I. **The Y -Index of Some Complement Graph Structures and Their Applications of Nanotubes and Nanotorus**  
Alsharafi M., Alameri A., ZEREN Y., Shubatah M., Alwardi A.  
Journal of Mathematics, vol.2024, 2024 (SCI-Expanded)
- II. **Degree-Based Topological Descriptors of Hexaphenylbenzene Molecule Graphs**  
Alsharafi M., Akar M., Zeren Y., Alameri A.  
Polycyclic Aromatic Compounds, vol.44, no.2, pp.1238-1257, 2024 (SCI-Expanded)
- III. **On solvability of homogeneous Riemann boundary value problems in Hardy-Orlicz classes**  
Zeren Y., Alizadeh F., Dal F. E.  
TURKISH JOURNAL OF MATHEMATICS, vol.47, no.2, pp.565-581, 2023 (SCI-Expanded)
- IV. **On solvability in the small and Schauder-type estimates for higher order elliptic equations in grand Sobolev spaces (nonseparable case)**  
Bilalov B. T., Zeren Y., Sadigova S. R., Cetin S.  
Applicable Analysis, vol.102, no.11, pp.3064-3077, 2023 (SCI-Expanded)
- V. **The analogs of the Korovkin theorems in banach function spaces**  
ZEREN Y., Ismailov M., Karacam C.  
POSITIVITY, vol.26, no.2, 2022 (SCI-Expanded)
- VI. **On basicity of exponential and trigonometric systems in grand Lebesgue spaces**  
Ismailov M. I., ZEREN Y., Acar K. S., Aliyarova I. F.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.51, no.6, pp.1577-1587, 2022 (SCI-Expanded)
- VII. **Solvability in the small of m-th order elliptic equations in weighted grand Sobolev spaces**  
Bilalov B., ZEREN Y., Sadigova S., Cetin S.  
TURKISH JOURNAL OF MATHEMATICS, vol.46, no.6, pp.2078-2095, 2022 (SCI-Expanded)
- VIII. **A VARIABLE EXPONENT BOUNDEDNESS OF THE STEKLOV OPERATOR**  
Zeren Y.  
MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.24, no.3, pp.645-653, 2021 (SCI-Expanded)
- IX. **Korovkin-type theorems and their statistical versions in grand Lebesgue spaces**

- ZEREN Y., Ismailov M., Karacam C.  
TURKISH JOURNAL OF MATHEMATICS, vol.44, no.3, pp.1027-1041, 2020 (SCI-Expanded)
- X. **On basicity of the system of eigenfunctions of one discontinuous spectral problem for second order differential equation for grand-Lebesgue space**  
Zeren Y., Ismailov M., Sirin F.  
TURKISH JOURNAL OF MATHEMATICS, vol.44, pp.1595-1611, 2020 (SCI-Expanded)
- XI. **ON BOUNDEDNESS OF FRACTIONAL MAXIMAL OPERATOR IN WEIGHTED  $L_p(\cdot)$  SPACES**  
MAMEDOV F. I., ZEREN Y.  
MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.19, no.1, pp.1-14, 2016 (SCI-Expanded)
- XII. **A Necessary and Sufficient Condition for Hardy's Operator in the Variable Lebesgue Space**  
Mamedov F., Zeren Y.  
ABSTRACT AND APPLIED ANALYSIS, 2014 (SCI-Expanded)
- XIII. **On Equivalent Conditions for the General Weighted Hardy Type Inequality in Space  $L_p(\cdot)$**   
Mamedov F. I., ZEREN Y.  
ZEITSCHRIFT FUR ANALYSIS UND IHRE ANWENDUNGEN, vol.31, no.1, pp.55-74, 2012 (SCI-Expanded)
- XIV. **NECESSARY AND SUFFICIENT CONDITIONS FOR THE BOUNDEDNESS OF THE RIESZ POTENTIAL IN MODIFIED MORREY SPACES**  
Guliyev V. S., Hasanov J. J., ZEREN Y.  
JOURNAL OF MATHEMATICAL INEQUALITIES, vol.5, no.4, pp.491-506, 2011 (SCI-Expanded)
- XV. **On a two-weighted estimation of maximal operator in the Lebesgue space with variable exponent**  
Mamedov F. I., ZEREN Y.  
ANNALI DI MATEMATICA PURA ED APPLICATA, vol.190, no.2, pp.263-275, 2011 (SCI-Expanded)
- XVI. **On the limiting case for boundedness of the B-Riesz potential in B-Morrey spaces**  
Guliyev V. S., Hasanov J. J., Zeren Y.  
ANALYSIS MATHEMATICA, vol.35, no.2, pp.87-97, 2009 (SCI-Expanded)
- XVII. **Pointwise and integral estimates for the B-Riesz potential in terms of B-maximal and B-fractional maximal functions**  
Guliev V. S., GARAKHANOVA N., ZEREN Y.  
SIBERIAN MATHEMATICAL JOURNAL, vol.49, no.6, pp.1008-1022, 2008 (SCI-Expanded)
- XVIII. **On the Riesz potential in Morrey spaces, associated with the Laplace-Bessel differential operator**  
Zeren Y.  
INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, vol.19, no.8, pp.607-612, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The second Hyper-Zagreb index of VC5C7 [p, q] and HC5C7 [p, q] nanotubes**  
Alsharafi M. S. Y., Alameri A. Q., ZEREN Y.  
Journal of Discrete Mathematical Sciences and Cryptography, vol.27, no.3, pp.915-928, 2024 (ESCI)
- II. **THE Y- INDEX AND COINDEX OF V C5C7[p; q] AND HC5C7[p; q] NANOTUBES**  
ALSHARAFI M., ALAMERI A., ZEREN Y.  
Turkish World Mathematical Society Journal of Applied and Engineering Mathematics, vol.14, no.2, pp.433-445, 2024 (ESCI)
- III. **Degree-Based Molecular Descriptors of Chain Biphenylene**  
ZEREN Y., Alameri A., Alsharafi M., Ayache A., Jamil M. K.  
Biointerface Research in Applied Chemistry, vol.13, no.5, 2023 (Scopus)
- IV. **On innovations of the multivariable fractional Hardy-type inequalities on time scales**  
Toprakseven S., Bengi R., Zeren Y.  
Forum of Mathematics, Sigma, vol.41, no.4, pp.807-811, 2023 (Peer-Reviewed Journal)
- V. **On innovations of the multivariable fractional Hardy-type inequalities on time scales**  
Akn L., Zeren Y.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.41, no.2, pp.415-422, 2023 (ESCI)

- VI. **Pseudosymmetric Spaces as Generalization of Symmetric spaces**  
Bilalov B., Zeren Y., Alizade B., Dal F. E.  
SAHAND COMMUNICATIONS IN MATHEMATICAL ANALYSIS, vol.20, no.1, pp.61-79, 2022 (ESCI)
- VII. **Solution in the Small and Interior Schauder-type Estimate for the m-th Order Elliptic Operator in Morrey-Sobolev Spaces**  
Bilalov B., Ahmedov T., Zeren Y., Sadigova S.  
AZERBAIJAN JOURNAL OF MATHEMATICS, vol.2, no.12, pp.190-219, 2022 (ESCI)
- VIII. **SOME PROPERTIES FOR HIGHER ORDER COMMUTATORS OF HARDY-TYPE INTEGRAL OPERATOR ON HERZ-MORREY SPACES WITH VARIABLE EXPONENT**  
AKIN L., ZEREN Y.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.10, no.2, pp.157-163, 2019 (ESCI)
- IX. **Some questions of harmonic analysis in weighted Morrey type spaces**  
ZEREN Y.  
AFRIKA MATEMATIKA, vol.30, pp.129-150, 2019 (ESCI)
- X. **DESIGN AND VERIFICATION OF PARITY CHECKING CIRCUIT USING HOL4 THEOREM PROVING**  
Deniz E., Aksoy K., Tahar S., ZEREN Y.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.10, no.2, pp.245-252, 2019 (ESCI)
- XI. **INTRODUCTION TO HOL4 THEOREM PROVER**  
Aksoy K., Tahar S., ZEREN Y.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.10, no.2, pp.237-243, 2019 (ESCI)
- XII. **On Morrey-type classes of harmonic functions**  
ZEREN Y., Abdullayeva R. H., Çetin S.  
RENDICONTE DEL CIRCOLO MATEMATICO DI PALERMO, vol.67, no.3, pp.501-516, 2018 (ESCI)
- XIII. **Approximation To Generalized Taylor Derivatives By Integral Operator Families**  
Akin L., Zeren Y.  
MSU J. OF SCI., vol.5, pp.421-423, 2017 (Peer-Reviewed Journal)
- XIV. **Compactification of Weighted Hardy Operator in Variable Exponent Lebesgues Spaces**  
Mamedov F., Zeren Y., Akin L.  
Asian Journal of Mathematics and Computer Research, vol.17, pp.38-47, 2017 (Peer-Reviewed Journal)
- XV. **On some Hardy-Sobolev's type variable exponent inequality and its application**  
Mamedov F. I., Mammadli S. M., Zeren Y.  
Transactions Issue Mathematics, Azerbaijan National Academy of Sciences, vol.37, pp.102-110, 2017 (Scopus)
- XVI. **On One Kind of Positive Operators in Lebesgue Space Of Harmonic Functions**  
Zeren Y., Şirin F., Hasanlı R.  
Transactions of NAS of Azerbaijan, Issue Mathematics, vol.36, no.4, 2016 (Scopus)
- XVII. **Two weight inequalities for the maximal operator in lebesgue space with variable exponent.**  
Zeren Y., Mamedov F.  
Journal of Mathematical Sciences, vol.173, no.6, pp.701-716, 2011 (Scopus)
- XVIII. **On limiting case of the Sobolev theorem for B-Riesz potential in B-Morrey spaces**  
Zeren Y., Hasanov J. J.  
Arab Journal of Mathematical Sciences, vol.13, pp.27-38, 2007 (Scopus)
- XIX. **Two-weight norm inequalities for some anisotropic sublinear operators**  
ZEREN Y., guliyev v.  
Turk J. Math, 2006 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Computational Analysis of Degree-Based Topological Descriptors of Triphenylene Benzenoid System**  
Alsharafi M., Zeren Y., Akar M., Alameri A.  
6th International HYBRID Conference on Mathematical Advances and Applications (ICOMAA 2023), İstanbul, Turkey, 10 - 13 May 2023, pp.144
- II. **Pseudosymmetric spaces as generalization of symmetric spaces**  
Bilalov B., Zeren Y., Alizade B., Dal F. E.  
5th International ONLINE Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 - 14 May 2022, vol.1, no.1, pp.50
- III. **Solution in the Small and Interior Schauder-type Estimate for the m-th Order Elliptic Operator in Morrey-Sobolev Spaces**  
Zeren Y., Bilalov B., Sadıgova S., Çetin Ş.  
5th International ONLINE Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 - 14 May 2022, vol.1, no.1, pp.52
- IV. **A Generalization of the New Dynamic Inequalities on Time Scales**  
Akin L., Zeren Y.  
5th International ONLINE Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 - 14 May 2022, vol.1, no.1, pp.122
- V. **On solvability in the small and Schauder-type estimates for higher order elliptic equations in grand Sobolev spaces**  
Bilalov B., Zeren Y., Sadıgova S., Çetin Ş.  
5th International ONLINE Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 - 14 May 2022, vol.1, no.1, pp.51
- VI. **On the basis property of a weighted exponential system in grand Lebesgue spaces**  
Zeren Y., İsmayilov M., Şimşir Acar K.  
5th International ONLINE Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 - 14 May 2022, vol.1, no.1, pp.200
- VII. **On basicity of the system of eigenfunctions of a spectral problem in weighted Morrey space**  
Şirin F., Zeren Y., Karaçam C.  
5th International ONLINE Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 - 14 May 2022, vol.1, no.1, pp.90
- VIII. **Solvability in the small and interior Schauder type estimates for m – th order elliptic equations in weighted Banach function spaces**  
Bilalov B., Softova L., Zeren Y., Sadıgova S.  
5th International ONLINE Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 - 14 May 2022, vol.1, no.1, pp.123
- IX. **Korovkin Theorems in grand Lebesgue spaces in the sense of statistical equi-equal convergence**  
Zeren Y., Karaçam C., Şirin F.  
5th International ONLINE Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 - 14 May 2022, vol.1, no.1, pp.58
- X. **On Basicity Of The System of Eigenfunctions for One Discontinuous Operator Produced by a Spectral Problem in Banach Function Space**  
Zeren Y., Şirin F.  
TURKISH JOURNAL OF MATHEMATICS - STUDIES ON SCIENTIFIC DEVELOPMENTS IN GEOMETRY, ALGEBRA, AND APPLIED MATHEMATICS, İstanbul, Turkey, 1 - 03 February 2022, vol.1, no.1, pp.104
- XI. **Statistical Variants of Analogs of Korovkin type Theorems in Banach Function Spaces**  
Zeren Y., İsmayilov M., Karaçam C.  
TURKISH JOURNAL OF MATHEMATICS - STUDIES ON SCIENTIFIC DEVELOPMENTS IN GEOMETRY, ALGEBRA, AND APPLIED MATHEMATICS, İstanbul, Turkey, 1 - 03 February 2022, vol.1, no.1, pp.104
- XII. **Analogs on Korovkin theorems and their statistical versions in weighted grand Lebesgue spaces**

Zeren Y., Karaçam C., İsmailov M.

4 th International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 26 May - 29 June 2021, vol.1, no.1, pp.142

- XIII. **On the basis property of a system of eigenfunctions of a discontinuous second-order differential operator in a weighted grand Lebesgue spaces**  
Zeren Y., İsmailov M., Şirin F.  
4th International E-Conference on Mathematical Advances and Applications, İstanbul, Turkey, 26 - 29 May 2021, pp.141
- XIV. **Positive solutions of fractional boundary value problems for a combined Caputo fractional differential equation**  
Zeren Y., Toprakseven Ş.  
4th International E-Conference on Mathematical Advances and Applications, İstanbul, Turkey, 26 - 29 May 2021, pp.192
- XV. **On solvability "in small" of Higher Order Elliptic Equations in Symmetric Spaces**  
Zeren Y., Bilalov B., Sadigova S., Çetin Ş.  
4th International E-Conference on Mathematical Advances and Applications, İstanbul, Turkey, 26 - 29 May 2021, pp.183
- XVI. **Some equivalents to convergences operator sequences in the weighted grand Lebesgue spaces**  
Zeren Y., İsmailov M., Karaçam C.  
4th International E-Conference on Mathematical Advances and Applications, İstanbul, Turkey, 26 - 29 May 2021, pp.69
- XVII. **On Innovations of the Multivariable Fractional Hardy-Type Inequalities on Time Scales**  
Zeren Y., Akin L.  
4th International E-Conference on Mathematical Advances and Applications, İstanbul, Turkey, 26 - 29 May 2021, pp.132
- XVIII. **Lyapunov-type inequality for an anti-periodic fractional boundary value problem of the RieszCaputo derivative**  
Zeren Y., Bengi R., Toprakseven Ş.  
4th International E-Conference on Mathematical Advances and Applications, İstanbul, Turkey, 26 - 29 May 2021, pp.191
- XIX. **Interior Schauder-type Estimates for Higher-order Elliptic Operators in Grand-Sobolev Spaces**  
Bilalov B., Sadigova S., Zeren Y., Dal F. E.  
4th International E-Conference on Mathematical Advances and Applications, İstanbul, Turkey, 26 - 29 May 2021, pp.64
- XX. **On basicity properties of the system of exponentials and trigonometric functions in weighted grand-lebesgue spaces**  
Zeren Y., İsmailov M., Şirin F.  
4th International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 26 - 29 May 2021, vol.1, pp.94
- XXI. **An Investigation on Fractional Maximal Operatör in Time Scales**  
AKIN L., ZEREN Y.  
International Conference of Mathematical Advances and Applications, Turkey, 24 June 2020, vol.3
- XXII. **Korovkin-type theorems and their statistical versions in the weighted grand-Lebesgue spaces**  
Zeren Y.  
ICOMAA 2020, İstanbul, Turkey, 24 June - 27 August 2020, pp.65
- XXIII. **A Brief Introduction to Henstock Kurzweil Integral**  
Aksoy K., Zeren Y.  
3rd International E-Conference on Mathematical Advances and Applications, İstanbul, Turkey, 24 - 27 June 2020, pp.119
- XXIV. **Spectral properties of the problem on vibrations of a loaded string in weighted grand Lebesgue spaces**



- Zeren Y.  
International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 24 - 27 June 2020, pp.79
- XXV. **Using HOL4 for the Reliability Verification of Parity Checking Circuit**  
Deniz E., Aksoy K., Tahar S., ZEREN Y.  
2nd International Conference on Mathematical Advances and Applications (ICOMAA2019), 3 - 05 May 2019
- XXVI. **A variable exponent boundedness of the Steklov operator**  
ZEREN Y., ŞİRİN F.  
2nd International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 3 - 05 May 2019, pp.94
- XXVII. **On Spectral Properties of Second Order Discontinuous Differential Operator in  $\mathbb{R}^n \oplus \mathbb{C}$**   
ZEREN Y., ŞİRİN F.  
2nd International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 3 - 05 May 2019, pp.71
- XXVIII. **In-service Teachers' Understanding of Geometric Reflections: Motion and Mapping view**  
ZEREN Y., ŞİRİN F.  
2nd International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 3 - 05 May 2019, pp.74
- XXIX. **On Spektral Properties of Discontinuous Differential Operators With Second Order**  
ZEREN Y., ŞİRİN F.  
2nd International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 3 - 05 May 2019
- XXX. **On Existence and Uniqueness of Some Class Nonlinear Eigenvalue Problem**  
ZEREN Y., AKIN L.  
4th INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATIONS SEPTEMBER 11-14, 2018, KIRSEHIR / TURKEY, Kırşehir, Turkey, 11 - 14 September 2018, pp.188-191
- XXXI. **On a solvability for some variable exponent eigenvalue problem**  
ZEREN Y., AKIN L., ŞİMŞİR K., Kazar C.  
International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 May 2018, pp.163
- XXXII. **On solvability of some nonlinear eigenvalue problem in variable exponent Lebesgue spaces**  
MAMEDOV F. I., ZEREN Y., Mammadli S. M.  
International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 May 2018, pp.21
- XXXIII. **On Weighted Zorko Subspaces and Riesz type Theorems for Analytic Functions**  
ZEREN Y., YAVUZ S.  
International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 May 2018, pp.162
- XXXIV. **On the Boundedness of Fractional Maximal Operator with Variable Kernel on Herz-Morrey spaces**  
AKIN L., ZEREN Y., Düşünceli F.  
International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 May 2018, pp.98
- XXXV. **Basis Properties of Trigonometric Systems in Weighted Morrey Spaces**  
BİLALOV B., ZEREN Y., Çetin Ş.  
International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 May 2018, pp.19
- XXXVI. **An Increase Theorem for Positive Solutions of The Parabolic Equation second order**  
Deniz E., ZEREN Y., Guliyev A., YAVUZ S.  
International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 May 2018, pp.43
- XXXVII. **Fejer's Theorem and It's Statistical Version in  $L_p(\mathbb{R})$**   
ZEREN Y.  
Modern Problems of Mathematics and Mechanics, Baku, Azerbaijan, 06 December 2017, pp.231-233
- XXXVIII. **On some compactness result in weighted variable exponent Lebesgue space**  
ZEREN Y., AKIN L., ŞİMŞİR K.  
Modern Problems of Mathematics and Mechanics, Baku, Azerbaijan, 6 - 08 December 2017, pp.230
- XXXIX. **On the fractional maximal operator on some critical weighted Herz spaces with variable exponent Lebesgue spaces**  
AKIN L., ZEREN Y., DÜŞÜNCELİ F.

Modern Problems of Mathematics and Mechanics, Baku, Azerbaijan, 6 - 08 December 2017, pp.21-22

- XL. **Fourier Series on Banach Function Space**  
YAVUZ S., ZEREN Y.  
International Conference on Operators in Morrey-Type Spaces and Applications, Kırşehir, Turkey, 10 June - 13 October 2017
- XLI. **Approximation To Generalized Riemann Derivatives By Integral Operator Families**  
AKIN L., ZEREN Y., DÜŞÜNCELİ F.  
Caucasian Mathematics Conference, CMC II, VAN, TURKEY, Van, Turkey, 22 - 24 August 2017, pp.26
- XLII. **Some Questions of Harmonic Analysis in Weighted Morrey Type Spaces**  
ZEREN Y.  
OMTSA -2017, 10 - 13 July 2017
- XLIII. **The Boundedness of The Hardy-Littlewood Maximal Operator**  
Dikmen M., ZEREN Y.  
International Conference on Operators in Morrey-Type Spaces and Applications, Kırşehir, Turkey, 10 - 13 June 2017
- XLIV.  **$\mu$ -statistical Convergence and  $\mu$ -stat Fundemantality**  
KARAÇAM C., ZEREN Y., BİLALOV B.  
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017
- XLV. **A Variable Exponent Hardy's Inequality for Some Nonlinear Equation and Its Application**  
ŞİMŞİR K., ZEREN Y., MAMEDOV F.  
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017
- XLVI. **Uncountable Bessel System in Non-Seperable Hilbert Spaces**  
SAÇLI Y., ZEREN Y.  
International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 May 2017
- XLVII. **Approximation To Generalized Derivatives By Integral Operator Families**  
AKIN L., ZEREN Y.  
ICMME 2017, Şanlıurfa, Turkey, 11 - 13 May 2017
- XLVIII. **COMPACTNESS OF MAXIMAL OPERATOR INWEIGHTED LEBESGUE SPACES WITH VARIABLEEXPONENT**  
AKIN L., ZEREN Y.  
INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATIONS, 12 - 15 July 2016
- XLIX. **BOUNDEDNESS OF THE CALDERON ZYGMUNDSINGULAR INTEGRAL OPERATOR AND ITS COMMUTATORS ON MODIFIED MORREY SPACES**  
Armutçu H., ZEREN Y., Guliyev V.  
INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATIONS, 12 - 15 July 2016
- L. **COMPACTNESS OF FRACTIONAL MAXIMAL OPERATORIN WEIGHTED  $L_p \times 0 L$  SPACE**  
ZEREN Y., AKIN L.  
INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATIONS, 12 - 15 July 2016
- LI. **Compactness of Fractional Maximal Operator in Weighted  $L^p(x)(0,1)$  Spaces**  
ZEREN Y., AKIN L.  
2nd INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATION, 01 July 2016
- LII. **ON ONE KIND OF POSITIVE OPERATORS IN LEBESGUE SPACE OF HARMONIC FUNCTIONS**  
ZEREN Y., ŞİRİN F.  
2nd INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATION, 01 July 2016
- LIII. **BOUNDEDNESS OF THE CALDERON-ZYGMUND SINGULER INTEGRAL OPERATOR AND ITS COMMUTATORS ON MODIFIED MORREY SPACES**  
ZEREN Y., ARMUTÇU H., S. GULIYEV V.  
2nd INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATION, 01 July 2016
- LIV. **ON SOME PROPERTIES OF POISSON AND CAUCHY TYPE INTEGRALS IN WEIGHTED MORREY TYPE SPACES**  
ZEREN Y., ÇETİN Ş.  
2nd INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATION, 01 July 2016

## Supported Projects

- ZEREN Y., ÖZÜKANAR M., Project Supported by Higher Education Institutions, Banach Fonksiyon Uzaylarında Bazı Trigonometrik ve Üstel Sistemlerin Bazlık Özellikleri, 2023 - Continues
- ZEREN Y., ÇETİN Ş., BİLALOV B., Project Supported by Higher Education Institutions, Standart Olmayan Banach-Sobolev Fonksiyon Uzaylarında Eliptik Denklemlerin Çözülebilirlik Problemleri, 2023 - 2025
- ZEREN Y., Karaçam C., Project Supported by Higher Education Institutions, Grand Lebesgue Uzaylarında Korovkin Tipli Yaklaşım ve İstatistiksel Süreklilik, 2020 - 2022
- ZEREN Y., Şirin F., Project Supported by Higher Education Institutions, AĞIRLIKLİ BİR TELİN TİTREŞİM PROBLEMİNİN GRAND-LEBESGUE UZAYLARINDA SPEKTRAL ÖZELLİKLERİ, 2020 - 2022
- Zeren Y., TÜBİTAK International Bilateral Joint Cooperation Program Project, 2542 - Azerbaycan Ulusal Bilimler Akademisi (ANAS) ile İkili İşbirliği Programı, 2020 - 2022
- Zeren Y., Aksoy K., Project Supported by Higher Education Institutions, Initial Value Problem for Schrödinger Equation Containing Kurzweil Henstock Integral, 2020 - 2021
- Zeren Y., TÜBİTAK International Bilateral Joint Cooperation Program Project, Frame Properties of the System of Eigenfunctions of a Second Order Discontinuous Differential Operator, 2019 - 2021
- Zeren Y., Akın L., Project Supported by Higher Education Institutions, İletişim Cihazlarının Yapılandırılmasında Matematiksel Modeller, 2017 - 2018
- ZEREN Y., Project Supported by Higher Education Institutions, Maksimal, Potansiyel ve Singüler İntegral Operatörlerinin Modifiye edilmiş Morrey Uzaylarında Sınırlılığı, 2015 - 2016
- ZEREN Y., Project Supported by Higher Education Institutions, Ağırlıklı Ve Değişken Üslü Lebesgue Uzayında Hardy Operatörünün Kompaktlığı, 2014 - 2015

## Activities in Scientific Journals

- Conference Proceedings of Science and Technology, Editor, 2021 - 2021
- Sigma Journal of Engineering and Natural Sciences, Special Issue Editor, 2021 - 2021
- Conference Proceedings of Science and Technology, Editor, 2020 - 2020
- Sigma Journal of Engineering and Natural Sciences, Special Issue Editor, 2019 - 2019
- Conference Proceedings of Science and Technology, Editor, 2019 - 2019

## Scientific Refereeing

- Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, June 2019
- CELAL BAYAR ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, May 2019
- Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, February 2018
- TUBİTAK Project, 2221 - Sabbatical Science Support P., Yıldız Technical University, Turkey, July 2012

## Scientific Consultations

- Tübitak, ARDEB-Dış Danışman Değerlendirmesi, Project Consultancy, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey, 2019 - 2019
- Tübitak, 4006 İstanbul İl Temsilciliği, Project Consultancy, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey, 2017 - 2019
- Tübitak, 4007 Bilim Şenlikleri Paneli, Project Consultancy, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey, 2018 - 2018
- Tübitak, ARDEB, Project Consultancy, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey, 2018 - 2018

Tübitak, BİDEB-2221 Konuk veya Akademik İzinli Bilim İnsanı Destekleme Programı, Project Consultancy, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey, 2017 - 2017

Tübitak, 2221 Konuk veya Akademik İzinli Bilim İnsanı Destekleme Programı, Project Consultancy, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey, 2017 - 2017

Tübitak, 2232 Uluslararası Lider Araştırmacılar Programı, Project Consultancy, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey, 2017 - 2017

Tübitak, ARDEB-Topoloji Paneli, Project Consultancy, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey, 2017 - 2017

## **Tasks In Event Organizations**

Zeren Y., 7th International HYBRID Conference on Mathematical Advances and Applications, Scientific Congress, İstanbul, Turkey, Mayıs 2024

Zeren Y., 6th International HYBRID Conference on Mathematical Advances and Applications, Scientific Congress, İstanbul, Turkey, Mayıs 2023

Zeren Y., 2nd INTERNATIONAL WORKSHOP ON FUNCTIONAL ANALYSIS AND APPLICATIONS, Workshop Organization, İstanbul, Turkey, Mayıs 2022

Zeren Y., 5th International E-Conference on Mathematical Advances and Applications, Scientific Congress, İstanbul, Turkey, Mayıs 2022

Zeren Y., INTERNATIONAL WORKSHOP ON FUNCTIONAL ANALYSIS AND APPLICATIONS, Workshop Organization, İstanbul, Turkey, Ocak 2022

Zeren Y., 4th International E-Conference on Mathematical Advances and Applications, Scientific Congress, Turkey, Mayıs 2021

Zeren Y., 3rd International E-Conference on Mathematical Advances and Applications, Scientific Congress, İstanbul, Turkey, Haziran 2020

Zeren Y., 2nd International Conference on Mathematical Advances and Applications (ICOMAA2019), Scientific Congress, İstanbul, Turkey, Mayıs 2019

Zeren Y., International Conference on Mathematical Advances and Applications (ICOMAA2018), Scientific Congress, İstanbul, Turkey, Mayıs 2018

Zeren Y., Eğitimcilerin Eğitimi Çalıştayı, Workshop Organization, Batman, Turkey, Haziran 2008

## **Mobility Activity**

Erasmus Programme, Lecturing, Universitatea Alexandru Joan Cuza din Tasi, Romania, 2014 - 2014

Erasmus Programme, Lecturing, Universita Degli di Lecce, Italy, 2012 - 2012

## **Metrics**

Publication: 92

Citation (WoS): 69

Citation (Scopus): 71

H-Index (WoS): 4

H-Index (Scopus): 5

## **Congress and Symposium Activities**

TURKISH JOURNAL OF MATHEMATICS - STUDIES ON SCIENTIFIC DEVELOPMENTS IN GEOMETRY, ALGEBRA, AND APPLIED MATHEMATICS, Attendee, Ankara, Turkey, 2022

TURKISH JOURNAL OF MATHEMATICS - STUDIES ON SCIENTIFIC DEVELOPMENTS IN GEOMETRY, ALGEBRA, AND APPLIED MATHEMATICS, Attendee, Ankara, Turkey, 2022

Western Balkan Conference in Mathematics and Applications, Attendee, Prishtine, Kosovo, 2021

2nd International Conference on Mathematical Advances and Applications (ICOMAA), Working Group, İstanbul, Turkey, 2019

4th International Conference on Analysis and its Applications (ICAA), Working Group, Kirşehir, Turkey, 2018

International Conference on Mathematical Advances and Applications (ICOMAA), Working Group, İstanbul, Turkey, 2018

Modern Problems of Mathematics and Mechanics, Working Group, Baku, Azerbaijan, 2017

2nd International Conference on Analysis and its Applications (ICAA), Working Group, Kirşehir, Turkey, 2016

Mathematical Analysis, Differential Equations and their Applications (MADEA7), Working Group, Baku, Azerbaijan, 2015

International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM14), Working Group, Antalya, Turkey, 2014

International Conference on Applied Analysis and Mathematical Modeling (ICAAMM2013), Working Group, İstanbul, Turkey, 2013

International Conference on Applied Analysis and Algebra, Working Group, İstanbul, Turkey, 2012

International Conference on Analysis and its Applications, Working Group, Aligarh, India, 2011

International Conference on Applied Analysis and Algebra, Working Group, İstanbul, Turkey, 2011

III. Ankara Matematik Günleri Sempozyumu, Working Group, Ankara, Turkey, 2008

II. Türk Dünyası Matematik Sempozyumu, Working Group, Sakarya, Turkey, 2007

Eğitmcilerin Eğitimi Semineri, Working Group, Şanlıurfa, Turkey, 2005

International Mathematics Symposium, Working Group, Baku, Azerbaijan, 2005

## **Scholarships**

NATO-D, NATO, 2004 - 2004

NATO-B1, NATO, 2003 - 2003

NATO-A2, NATO, 2002 - 2002

## **Awards**

Zeren Y., Teşekkür Belgesi, Yıldız Teknik Üniversitesi, February 2022

Zeren Y., Teşekkür Belgesi, Yıldız Teknik Üniversitesi, January 2012

## **Non Academic Experience**

University, Atatürk Üniversitesi, Açıköğretim Fakültesi