Assoc. Prof. Özlem BAKŞİ

Personal Information

Office Phone: <u>+90 383 432 4</u> Email: baksi@yildiz.edu.tr

Other Email: ozlem.baksi@gmail.com Web: https://avesis.yildiz.edu.tr/baksi

Address: YTU Fen Edebiyat Fak. Matematik Böl. Esenler İstanbul

International Researcher IDs ORCID: 0000-0002-2423-8676 Yoksis Researcher ID: 174325

Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey 1994 - 1999 Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey 1992 - 1994

Undergraduate, Ytu, Fen Edebıyat, Matematık, Turkey 1988 - 1992

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Sınırsız Operatör Katsayılı Sturm-Liouville Denkleminin İz Formülü, Yıldız Teknik Üniversitesi, Matematik, Analiz Ve Fonksiyonlar Teorisi, 1999

Postgraduate, 2-Dizayn ve 3-Dizayn ların İncelenmesi, Yıldız Teknik Üniversitesi, Matematik, Cebir Ve Sayılar Teorisi, 1994

Research Areas

Mathematics, Differential Equations, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2023 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2017 - 2023 Assistant Professor, The Ohio State University, Collage of Art and Science, Department of Mathematics, 2016 - 2017 Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2006 - 2016 Lecturer PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2000 - 2006 Research Assistant, Yildiz Technical University, Fen Edebiyat Fakultesi, Matematik, 1993 - 2000

Courses

Matematik 2, Undergraduate, 2021 - 2022

Lineer Cebir, Undergraduate, 2022 - 2023

Kompleks Fonksiyonlar Teorisi 1, Undergraduate, 2022 - 2023, 2021 - 2022

Diferansiyel Denklemler, Undergraduate, 2021 - 2022

Fourier Analizi, Postgraduate, 2021 - 2022

Matematik 1, Undergraduate, 2021 - 2022

Jury Memberships

Academic Staff Examination, Yüksek Lisans İngilizce Matematik Sınavı, Matematik Bölümü Yüksek Lisans Sınavı, May, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

I. Trace regularization problem for a fourth-order differential operator on separable Banach space BAKŞİ Ö., SEZER Y., Caliskan S.

Mathematical Methods in the Applied Sciences, 2024 (SCI-Expanded)

II. Asymptotic formula for the sum of eigenvalues of fourth order differential operator on Banach space

BAKŞİ Ö., SEZER Y.

Filomat, vol.38, no.17, pp.6059-6086, 2024 (SCI-Expanded)

III. Asymptotic Behaviour of Negative Eigenvalues of an Operator Differential Equation BAKŞİ Ö.

Filomat, vol.36, no.7, pp.2411-2426, 2022 (SCI-Expanded)

IV. The Second Regularized Trace of Even Order Differential Operators with Operator Coefficient Baksi Ö., Sezer Y.

FILOMAT, vol.36, no.4, pp.1069-1080, 2022 (SCI-Expanded)

V. On Higher Regularized Traces of a Differential Operator with Bounded Operator Coefficient Given in a Finite Interval

SEZER Y., BAKŞİ Ö., KARAYEL S.

MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.18, no.3, 2021 (SCI-Expanded)

VI. BASIS PROPERTIES OF p-EXPONENTIAL FUNCTION OF LINDQVIST AND PEETRE TYPE

BAKŞİ Ö., Gurka P., Lang J., Mendez O.

MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.21, no.4, pp.1003-1013, 2018 (SCI-Expanded)

VII. STRICT S-NUMBERS OF THE VOLTERRA OPERATOR

BAKŞİ Ö., Khan T., Lang J., Musil V.

PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY, vol.146, no.2, pp.723-731, 2018 (SCI-Expanded)

VIII. Second regularized trace of a differential operator with second order unbounded operator coefficient given in a finite interval

Bakşi Ö., Karayel S., Sezer Y.

Operators and Matrices, vol.11, pp.735-747, 2017 (SCI-Expanded)

IX. Basis properties of Lindqvist-Peetre functions in L-r (0,1)(n)

Bakasi O., Gurka P., Lang J., Mendez O.

REVISTA MATEMATICA COMPLUTENSE, vol.30, no.1, pp.1-12, 2017 (SCI-Expanded)

X. The third regularized trace formula for the Sturm-Liouville operator with the bounded operator coefficient

Baksi O., Adiguezelov E.

Articles Published in Other Journals

I. TRACE REGULARIZATION PROBLEM FOR HIGHER ORDERDIFFERENTIAL OPERATOR

Sezer Y., Bakşi Ö., Karayel S.

Maltepe Journal of Mathematics, vol.2, no.1, pp.27-37, 2020 (Peer-Reviewed Journal)

II. The Regularized Trace of Two Terms Differential Operator in the Space H1 = L2 (0, 春天) BAKSİ Ö.

Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.9, pp.1594-1605, 2019 (Peer-Reviewed Journal)

III. The sum of subtraction of the eigenvalues of two self-adjoint differential operators with unbounded operator coefficient

Karayel S., Bakşi Ö., Sezer Y.

International Journal of Pure and Applied Mathematics, vol.3, no.63, pp.255-268, 2010 (Peer-Reviewed Journal)

IV. Sonlu Aralıkta Verilmiş İkinci Mertebeden Bir Diferansiyel Operatörün Negatif Özdeğerlerinin Toplamı İçin Asimtotik Formül

Bakşi Ö., Sedi İ.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.23, no.4, pp.87-98, 2005 (ESCI)

V. On a regularized trace of adifferential operator with bounded operator coefficient BAKŞİ Ö., BAYKAL ÜNAL O., ADIGÜZELOV E.

International Mathematical Journal, vol.3, no.5, pp.273-286, 2004 (Peer-Reviewed Journal)

VI. On the Regularized Trace of the Differential Operator Equation Given in Finite Interval Operator Ehliman A., Bakşi Ö.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.1, no.1, pp.47-55, 2004 (ESCI)

VII. The Asymptotic Behaviour of the Negative Part of The Spectrum of Sturm Liouville Operator with the Operator Coefficient which has singularity

EHLİMAN A., BAKŞİ Ö., BAYRAMOV A.

International Journal of Differential Equations and Applications, pp.315-329, 2002 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Trace Regularization Problem for a Fourth Order Differential Operator on Separable Banach Space Bakşi Ö., Sezer Y., Kızılbudak Çalışkan S.

ICOMAA 2024 7th International HYBRID Conference on Mathematical Advances and Applications, İstanbul, Turkey, 8 - 11 May 2024, pp.148

II. Time-Ordered Hyperbolic Evolution Systems

Bakşi Ö., Gül E., Kızılbudak Çalışkan S., Sezer Y., Karayel S., Hansen A. K., Gill T. L.

2nd International Workshop: Constructive Mathematical Analysis, Konya, Turkey, 6 - 08 July 2023, pp.10

III. The Second Regularized Trace of Even Order Differential Operators with Operator Coefficient BAKŞİ Ö., SEZER Y.

Fourth International Conference of Mathematical Sciences (ICMS 2020), İstanbul, Turkey, 21 June 2020, vol.1, pp.39

IV. On the Identities of Generalized Trigonometric Functions

BAKŞİ Ö.

4th International Conference on Pure and Applied Sciences: Renewable Energy, İstanbul, Turkey, 23 - 25 November 2017

V. On the basis properties of generalized trigonometric functions of Lindquvist-Peetre type in the Lebesque space Lr(0,1)n

Bakşi Ö.

Banach Spaces and Operator Theory with Applications, Poznan, Poland, 3 - 07 July 2017

VI. Some inequalities about the eigenvalues of a two terms differential operator and the sum of the eigenvalues of that operator

Bakşi Ö.

The Eigth Congress of Romanian Mathematicians, Iasi, Romania, 1 - 05 June 2015, pp.5

VII. On the Regularized Trace of an Operator which has Purely-discreate Spectrum BAKŞİ Ö.

10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, 01 July 2014

VIII. On the Trace of an Even Order Differential Operator

BAKŞİ Ö.

ICREA Conference on Approximation Theory and Fourier Analysis, 01 December 2011

IX. The Regularized Trace Formula For a Differential Operator of Fourth order with bounded operator Coefficient

SEZER Y., BAKŞİ Ö., KARAYEL S.

International Conference on Mathematical Sciences, Bolu, Turkey, 23 - 27 November 2010

X. Sınırlı Operator Katsayılı İki Terimli Bir Diferansiyel Operator İçin İz Formülü BAKSİ Ö.

5. Ankara Matematik Günleri, 01 June 2010

XI. The Asymptotic Formula for the Subtraction of eigenvalues of a second order Differential operator Bakşi Ö., Karayel S., Sezer Y.

International Symposium on Analysis and theory of Functions, İstanbul Kültür University, İstanbul, Turkey, 24 - 26 August 2009, pp.41-42

XII. On the Asymptotic Behaviour of the Negative Part of Second Order Differential Operator BAKŞİ Ö.

International Conference of Mathematical Science, 01 August 2009

XIII. On the Asymptotic Behaviour of the Sum of the Negative Eigenvalues of a Differential Operator Given in Semi-Axis

Bakşi Ö.

Fifth International Conference of Applied Mathematics and Computing, İstanbul, Turkey, 1 - 08 August 2008, pp.5-6

XIV. İkinci Mertebeden Operatör Katsayılı Bir Diferansiyel Operatörün Düzenli İzinin Hesaplanması Adıgüzelov E., Bakşi Ö.

XI. Ulusal Matematik Sempozyumu, Isparta, Turkey, 7 - 11 September 1998, pp.5

Scientific Refereeing

Esitsizlikler ve uygulamalar dergisi, SCI Journal, November 2015 Fark Denklemlerinde Ileri Duzey, SCI Journal, October 2015

Tasks In Event Organizations

Bakşi Ö., International Conference on Mathematical Advances and Applications, Scientific Congress, İstanbul, Turkey, Mayıs 2018

Mobility Activity

Sabbatical Leave, Post Doc, The Ohio State University, United States Of America, 2016 - 2017

Metrics

Publication: 31 Citation (WoS): 6 Citation (Scopus): 10 H-Index (WoS): 2 H-Index (Scopus): 2

Congress and Symposium Activities

ICOMAA 2024 7th International HYBRID Conference on Mathematical Advances and Applications, Invited Speaker, İstanbul, Turkey, 2024

2nd International Workshop: Constructive Mathematical Analysis, Invited Speaker, Konya, Turkey, 2023

4th International Conference on Pure and Applied Sciences: Renewable Energy, Working Group, İstanbul, Turkey, 2017

Banach Spaces and Operator Theory with Applications, Attendee, Poznan, Poland, 2017

The Eigth Congress of Romanian Mathematicians, Working Group, Iasi, Romania, 2015

10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Working Group, Madrid, Spain, 2014

ICREA Conference on Approximation Theory and Fourier Analysis, Working Group, Barcelona, Spain, 2012
International Conference on Mathematical Sciences, Bolu, Working Group, Bolu, Turkey, 2010
5. Ankara Matematik Günleri, Working Group, Ankara, Turkey, 2010
International Conference of Mathematical Science, Working Group, İstanbul, Turkey, 2009
International Symposium on Analysis and Theory of Functions, Working Group, İstanbul, Turkey, 2009
Fifth International Conference of Applied Mathematics and Computing, Working Group, Plovdiv, Bulgaria, 2008
XI. Ulusal Matematik Sempozyumu, Working Group, Isparta, Turkey, 1998

Awards

Bakşi Ö., Teşvik Ödülü , Yıldız Teknik Üniversitesi, Ytü, February 2012

Non Academic Experience

The Ohio State University