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Publons / Web Of Science ResearcherID: AAZ-6836-2020

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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences,

Matematik, Turkey 2001 - 2006

 $Postgraduate, Mimar\ Sinan\ Fine\ Arts\ University, Institute\ Of\ Science,\ Matematik,\ Turkey\ 1998$

- 2001

Undergraduate, Yildiz Technical University, Fen Edebiyat Fakültesi, Matematik, Turkey 1991 - 1997

Foreign Languages

English, B1 Intermediate

Research Areas

Mathematics, Differential Equations, Natural Sciences

Academic Titles / Tasks

Lecturer PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2007 - Continues Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2006 - Continues

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 1998 - Continues

Courses

Linear Algebra, Undergraduate, 2022 - 2023, 2021 - 2022, 2018 - 2019 Mathematics 2, Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019

Mathematics 1, Undergraduate, 2022 - 2023

Mathematics 1, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. Second regularized trace of a differential operator of Sturm-Liouville type Gül E., Karayel S.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.47, no.7, pp.5461-5483, 2024 (SCI-Expanded)

II. 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)

III. 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)

IV. The regularized trace formula for a fourth order differential operator given in a finite interval Karayel S., Sezer Y.

JOURNAL OF INEQUALITIES AND APPLICATIONS, 2015 (SCI-Expanded)

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 sum of subtraction of the eigenvalues of two self adjoint differential operators with unbounded operator coefficient

BAKŞİ Ö., SEZER Y., KARAYEL S.

INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.3, no.63, pp.255-268, 2010 (Scopus)

III. Asymptotic formulas for the number of negative eigenvalues of a differential operator with operator coefficient

Karayel S., Adıgüzelov E.

INTERNATIONAL JOURNAL OF MATHEMATICAL ANALYSIS, vol.3, pp.491-504, 2009 (Scopus)

IV. A self adjoint expansion of a symmetric differential operator with operator coefficient

Karayel S., Adıgüzelov E.

Int. J. Contemp. Math. Sci., Vol. 2, No. 22, s. 1053-1067., vol.2, no.66, pp.1053-1067, 2007 (Peer-Reviewed Journal)

V. The asymptotic formulas for the sum of squares of negative eigenvalues of the singular Sturm-Liouville operator

Karayel S., Adıgüzelov E., Akyol M.

Int. J.Contemp. Math. Sci., vol.1, no.7, pp.341-358, 2006 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. 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

On The Control Description of Transport of A Control Only Differential Orders

II. On The Second Regularized Trace Formula of A Second Order Differential Operator Gül E., Karayel S. 2nd International Workshop: Constructive Mathematical Analysis, Konya, Turkey, 6 - 08 July 2023, pp.21

III. On a Second Regularized Trace Formula

Gül E., Karayel S.

2nd International E-Conference on Mathematical and Statistical Sciences: A Selcuk Meeting, Konya, Turkey, 5 - 07 June 2023, pp.108

IV. On the Number of Negative Eigenvalues of a Differential Operator with Operator Coefficient KARAYEL S., Adıgüzelov E.

Operator Theory, Analysis and Mathematical Physics Conference, 01 June 2012

V. 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

VI. The Regularized Trace Formula for a Differential Operator of Fourth Order with Bounded Operator Coefficient

Bakşi Ö., KARAYEL S.

Int. Conference on Mathematical Science, 01 November 2010

VII. 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

VIII. Yarı Eksende verilmiş Sturm- Liouville Operatörünün Negatif Özdeğerlerinin Karelerinin Toplamının Asimtotik Davranışı

KARAYEL S., Adıgüzelov E.

XIX. Ulusal Matematik Sempozyumu, 01 August 2006

Supported Projects

GÜL E., KARAYEL S., Project Supported by Higher Education Institutions, Sınırlı Operatör Katsayılı Sturm-Liouville Operatörünün İkinci Düzenli İzinin Hesaplanması, 2023 - 2023