

## Asst. Prof. İBRAHİM ERDAL

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 2013 - 2018

Postgraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 2010 - 2013

Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 2006 - 2010

### Dissertations

Doctorate, Yarım eksenle spektral tekilliğe sahip sıçrama koşullu Sturm-Liouville operatörleri, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2018

Postgraduate, Diferensiyel operatörler için Weyl teorisi, Ankara University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2013

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 2020 - Continues

### Courses

CALCULUS II, Undergraduate, 2021 - 2022

CALCULUS I, Undergraduate, 2022 - 2023

İŞLETME MATEMATİĞİ, Undergraduate, 2021 - 2022

MATEMATİK II, Undergraduate, 2021 - 2022

CALCULUS I, Undergraduate, 2022 - 2023

BİTİRME PROJESİ, Undergraduate, 2021 - 2022

MATEMATİK I, Undergraduate, 2022 - 2023

GRADUATION PROJECT, Undergraduate, 2021 - 2022

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

- I. **Second-Order Multiparameter Problems Containing Complex Potentials**  
ERDAL İ., Ugurlu E.  
AXIOMS, vol.11, no.12, 2022 (SCI-Expanded)
- II. **Difference equations with a point interaction**  
Bayram E., Cebesoy S., Erdal İ.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.42, no.16, pp.5498-5508, 2019 (SCI-Expanded)
- III. **PROPERTIES OF EIGENVALUES AND SPECTRAL SINGULARITIES FOR IMPULSIVE QUADRATIC PENCIL OF DIFFERENCE OPERATORS**  
Bayram E., Cebesoy S., Erdal İ.  
JOURNAL OF APPLIED ANALYSIS AND COMPUTATION, vol.9, no.4, pp.1454-1469, 2019 (SCI-Expanded)
- IV. **Investigation of an impulsive Sturm-Liouville operator on semi axis**  
YARDIMCI Ş., ERDAL İ.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.48, no.5, pp.1409-1416, 2019 (SCI-Expanded)
- V. **Spectral properties of an impulsive Sturm-Liouville operator**  
Bayram E., Erdal İ., Yardımcı Ş.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2018, 2018 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Some Spectral Properties of Schrödinger Operators on Semi Axis**  
ERDAL İ.  
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.27, no.3, pp.542-549, 2023 (Peer-Reviewed Journal)
- II. **EIGENVALUES AND SCATTERING PROPERTIES OF DIFFERENCE OPERATORS WITH IMPULSIVE CONDITION**  
Erdal İ., Yardımcı Ş.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.1, pp.663-671, 2019 (ESCI)
- III. **PRINCIPAL FUNCTIONS OF IMPULSIVE DIFFERENCE OPERATORS ON SEMI AXIS**  
YARDIMCI Ş., ERDAL İ.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.2, pp.1797-1810, 2019 (ESCI)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Some Results for Matrix Sturm-Liouville Equations with a Point Interaction**  
ERDAL İ.  
III. International Conference on Mathematics and Its Applications in Science and Engineering (ICMASE), Bucharest, Romania, 04 July 2022
- II. **Weyl Theory for the Fractional Sturm-Liouville Equations**  
ERDAL İ.  
III. International Conference on Mathematics and Its Applications in Science and Engineering (ICMASE), Bucharest, Romania, 04 July 2022
- III. **Some Spectral Results For the Impulsive Difference Equations on the Whole Axis**  
CEBESoy Ş., ERDAL İ., BAYRAM E.  
The 6th International Conference on Control and Optimization with Industrial Applications (COIA), Baku, Azerbaijan, 11 - 13 July 2018
- IV. **Singular Multiparameter Differential Equations with Complex Potentials**  
ERDAL İ., YARDIMCI Ş.  
International Conference on Mathematics "An Istanbul Meeting for World Mathematicians" (ICOM), İstanbul,

Turkey, 3 - 06 July 2018

**V. Some Spectral Properties of Impulsive Schrödinger Operators**

ERDAL İ., BAYRAM E., YARDIMCI Ş.

International Conference on Mathematics "An Istanbul Meeting for World Mathematicians" (ICOM), İstanbul, Turkey, 3 - 06 July 2018

**VI. Spectral Analysis of the Impulsive Schrödinger Operators**

ERDAL İ., YARDIMCI Ş.

3rd International Researchers, Statisticians and Young Statisticians Congress (IRSYSC), Konya, Turkey, 24 - 26 May 2017

**VII. Spectral Singularities of the Impulsive Sturm-Liouville Operators on the Semi Axis**

ERDAL İ., YARDIMCI Ş.

2nd International Conference on Analysis and its Applications (ICAA 2016), Kırşehir, Turkey, 12 - 15 July 2016

## **Metrics**

Publication: 15

Citation (WoS): 24

Citation (Scopus): 8

H-Index (WoS): 4

H-Index (Scopus): 1