

## Asst. Prof. MELTEM SERTBAŞ

### Personal Information

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### International Researcher IDs

Publons / Web Of Science ResearcherID: G-5154-2016

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### Education Information

Doctorate, Karadeniz Technical University, Fen Edebiyat Fakültesi, Matematik Bölümü, Turkey 2007 - 2011

Postgraduate, Karadeniz Technical University, Fen Edebiyat Fakültesi, Matematik Bölümü, Turkey 2004 - 2007

Undergraduate, Karadeniz Technical University, Fen Edebiyat Fakültesi, Matematik Bölümü, Turkey 2000 - 2004

### Foreign Languages

English, B1 Intermediate

### Research Areas

Mathematics, Functional Analysis, General Mathematics, Measure and Integration, Natural Sciences

### Academic Titles / Tasks

Karadeniz Technical University, Fen Fakültesi, Matematik Bölümü, 2018 - Continues

Assistant Professor, Karadeniz Technical University, Fen Fakültesi, Matematik Bölümü, 2014 - 2018

Lecturer PhD, Karadeniz Technical University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2011 - 2014

Lecturer, Karadeniz Technical University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2010 - 2011

Research Assistant, Karadeniz Technical University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2005 - 2010

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

- I. **Normal extensions for degenerate conformable fractional  $\alpha$ -order differential operator**  
SERTBAŞ M.  
Journal of Pseudo-Differential Operators and Applications, vol.14, no.2, 2023 (SCI-Expanded)
- II. **q-Difference Operator and Its q-Cohyponormality**  
SERTBAŞ M., Saral C.  
COMPLEX ANALYSIS AND OPERATOR THEORY, vol.14, no.8, 2020 (SCI-Expanded)
- III. **Degenerate maximal hyponormal differential operators for the first order**  
SERTBAŞ M., YILMAZ F.  
TURKISH JOURNAL OF MATHEMATICS, vol.43, no.1, pp.126-131, 2019 (SCI-Expanded)
- IV. **On the extended spectrum of some quasinormal operators**

SERTBAŞ M., YILMAZ F.

TURKISH JOURNAL OF MATHEMATICS, vol.41, no.6, pp.1477-1481, 2017 (SCI-Expanded)

V. **Normal Extensions a First Order Differential Opertors**

İSMAİLOV Z., Sertbaş M., Guler B. Ö.

FILOMAT, vol.28, no.5, pp.917-923, 2014 (SCI-Expanded)

VI. **Normal Extensions of a First Order Differential Operator**

İSMAİLOV Z., SERTBAŞ M., GÜLER B. Ö.

FILOMAT, vol.28, no.5, pp.917-923, 2014 (SCI-Expanded)

## Articles Published in Other Journals

I. **Normal Extensions of Differential Operators for Degenerate First-order**

SERTBAŞ M., YILMAZ F.

Lobachevskii Journal of Mathematics, vol.45, no.3, pp.1254-1260, 2024 (ESCI)

II.  **${}^q\mathcal{D}$ -Difference Operator on  $L_q^2(0, +\infty)$**

SERTBAŞ M., SARAL C.

Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics, vol.72, no.1, pp.247-258, 2023 (ESCI)

III. **Some Results for (s,m)-convex Function in the Second Sense**

SERTBAŞ M., MİHYAZ İ.

Maltepe Journal of Mathematics, vol.4, no.1, pp.1-8, 2022 (Peer-Reviewed Journal)

IV. **A NOTE FOR COMPACT OPERATORS ON INFINITE TENSOR PRODUCTS**

SERTBAŞ M., YILMAZ F.

ACTA MATHEMATICA UNIVERSITATIS COMENIANAE, vol.90, no.2, pp.209-216, 2021 (ESCI)

V. **q-Quasinormal Operators and Its Extended Eigenvalues**

SERTBAŞ M., YILMAZ F.

Maltepe Journal of Mathematics, vol.2, no.1, pp.9-13, 2020 (Peer-Reviewed Journal)

VI. **Birinci Mertebeden Düzgün Katsayılı Maksimal Hiponormal Operatör Genişlemeleri**

SERTBAŞ M.

Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.9, no.2, pp.290-294, 2019 (Peer-Reviewed Journal)

VII. **Selfadjoint extensions of a first order differential operator**

İSMAİLOV Z., Sertbaş M., Otkun Çevik E.

Applied Mathematics and Information Sciences Letters, vol.3, pp.39-45, 2015 (Peer-Reviewed Journal)

VIII. **Selfadjoint extentions of a first order differential operator**

İSMAİLOV Z., SERTBAŞ M., Elif O. Ç.

Applied Mathematics Information Science Letters, vol.3, no.2, pp.39-45, 2015 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

I. **q-Difference Operator and Its q-Cohyponormality**

SERTBAŞ M., SARAL Ç.

7th INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE AND APPLIED MATHEMATICS (ICRAPAM 2020), Muğla, Turkey, 25 - 28 September 2020, pp.102

II. **Degenerate Maximal Hyponormal Differential Operators For The First Order**

Sertbaş M., Yılmaz F.

Internatinal Conference on Recent Advances in Pure and Applied Mathematics, İstanbul, Turkey, 12 - 15 June 2019, pp.72

III. **Singular Degenerate Normal Differential Operators for First-Order**

YILMAZ F., SERTBAŞ M.

3rd International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 4 - 08 September 2019, vol.2183

- IV. **Normal Differential Operators for Degenerate First-Order**  
SERTBAŞ M., YILMAZ F.  
Internatinal Conference on Recent Advances in Pure and Applied Mathematics, Trabzon, Turkey, 23 - 27 June 2018, pp.154
- V. **q-Quasinormal Operators and Its Extended Eginvalues**  
YILMAZ F., SERTBAŞ M.  
Internatinal Conference on Recent Advances in Pure and Applied Mathematics, Trabzon, Turkey, 23 - 27 June 2018
- VI. **Extended spectrum of some quasinormal operators on applied analysis**  
SERTBAŞ M., YILMAZ F.  
International Conferance on Applied Anlysis and Mathematical Modelling, İstanbul, Turkey, 3 - 07 July 2017, pp.235
- VII. **Extended Spectrum of Some Quasinormal Operators**  
SERTBAŞ M., YILMAZ F.  
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Turkey, 3 - 07 July 2017, pp.235
- VIII. **Maximal Hyponormal Differential Operators of Firts Order with Smooth Coefficients on Mathematical Sciences and Applications**  
SERTBAŞ M.  
5. International Eurasian Conference, Belgrade, Serbia, 15 - 20 August 2016
- IX. **Bir Sınıf Yarı Normal Operatörlerin Genişletilmiş Spektrumu**  
YILMAZ F., SERTBAŞ M.  
11. Ankara Matematik Günleri Sempozyumu, Ankara, Turkey, 26 - 27 May 2016, pp.56
- X. **Self-adjoint extensions of singular third-order differential operator and applications**  
Bairamov E., SERTBAŞ M., İSMAİLOV Z.  
2nd International Conference on Analysis and Applied Mathematics (ICAAM), Shymkent, Kazakhstan, 11 - 13 September 2014, vol.1611, pp.177-182
- XI. **Normal extensions of a first order differential operator**  
İSMAİLOV Z., SERTBAŞ M., GÜLER B. Ö.  
Algerian-Turkish International Days on Mathematics, İstanbul, Turkey, 12 - 14 September 2013, pp.86
- XII. **Normal Extensions of a First Order Differential Operator, Algerian**  
İSMAİLOV Z., SERTBAŞ M., GÜLER B. Ö.  
Turkish International Days on Mathematics, Fatih University, İstanbul, Turkey, 12 - 14 September 2013
- XIII. **Selfadjoint Extensions for a First Order Differential Operator**  
İSMAİLOV Z., Sertbaş M., Otkun Çevik E.  
2nd International Eurasian Conference on Mathematical Sciences and Applications, Sarayevo, Bosnia And Herzegovina, 26 - 29 August 2013, pp.129
- XIV. **Paranormality of some class of differential operators for first order**  
SERTBAŞ M., CONA L.  
First International Conference on Analysis and Applied Mathematics, Gumushane, Turkey, Gümüşhane, Turkey, 18 - 21 November 2012, pp.98
- XV. **Bir sınıf üçüncü mertebeden normal diferensiyel operatörler**  
İSMAİLOV Z., SERTBAŞ M.  
6. Ankara Matematik Günleri, Hacettepe Üniversitesi, Ankara, Turkey, 02 June 2011, pp.18
- XVI. **Bir sınıf ikinci mertebeden normal diferensiyel operatörler**  
İSMAİLOV Z., SERTBAŞ M.  
9. Matematik Sempozyumu Sergi ve Şenlikleri, Trabzon, Turkey, 20 - 22 October 2010, pp.147
- XVII. **Birinci mertebeden düzgün operatör katsayılı normal differansiyel operatörler**  
İSMAİLOV Z., SERTBAŞ M.  
IV. Ank. Mat. Gün. Semp., Ankara, Turkey, 4 - 05 June 2009, pp.44
- XVIII. **The Structure of Spectrum for Normal Operators**

İSMAİLOV Z., SERTBAŞ M.

The 14th International Conference on Difference Equations and Applications, İstanbul, Turkey, 21 - 25 July 2008, pp.211-218

**XIX. Karışık tipten bir diferansiyel operatörün normal genişlemeleri**

İSMAİLOV Z., SERTBAŞ M.

III. Ankara Matematik Günleri Sempozyumu, Ankara, Turkey, 22 - 23 May 2008, pp.44

**XX. Normal operatörlerin spektrumu**

İSMAİLOV Z., SERTBAŞ M.

Proc. XIX Nat. Mat. Semp., Kütahya, Turkey, 22 - 25 August 2006, pp.1

## **Metrics**

Publication: 36

Citation (WoS): 8

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