

Res. Asst. PhD Erdem Toksoy

Personal Information

Email: erdem.toksoy@omu.edu.tr

Web: <https://avesis.omu.edu.tr/erdem.toksoy>

International Researcher IDs

ORCID: 0000-0003-3597-6161

Publons / Web Of Science ResearcherID: AHE-2884-2022

Yoksis Researcher ID: 148584

Education Information

Doctorate, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Matematik (Dr), Turkey 2015 - 2021

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 2011 - 2015

Undergraduate, Ataturk University, Kazım Karabekir Eğitim Fakültesi, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, Turkey 2005 - 2010

Dissertations

Doctorate, ON FUNCTION SPACES WITH THE FRACTIONAL TRANSFORM IN THE WEIGHTED SEGAL ALGEBRA AND SOME COMPACT EMBEDDINGS, Ondokuz Mayıs University, Lisansüstü Eğitim Enstitüsü, Matematik Anabilim Dalı, 2021
Postgraduate, Kesirli fourier dönüşümü ağırlıklı lebesgue uzayında olan fonksiyon uzayları, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2015

Research Areas

Natural Sciences

Academic Titles / Tasks

Research Assistant, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2011 - Continues

Courses

Analiz II, Undergraduate, 2022 - 2023

Analiz III, Undergraduate, 2023 - 2024

Analiz I, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

1. On geometrical characteristics and inequalities of new bicomplex Lebesgue Spaces with hyperbolic-valued norm

Toksoy E., Sagir B.

GEORGIAN MATHEMATICAL JOURNAL, 2023 (SCI-Expanded)

II. **Some compact and non-compact embedding theorems for the function spaces defined by fractional Fourier transform**

Toksoy E., Sandıkçı A.

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.50, no.6, pp.1620-1635, 2021 (SCI-Expanded)

III. **IMPROVEMENT IN ESTIMATING THE POPULATION MEAN IN SIMPLE RANDOM SAMPLING USING INFORMATION ON TWO AUXILIARY ATTRIBUTES AND NUMERICAL APPLICATION IN AGRICULTURAL ENGINEERING**

ZAMAN T., Toksoy E.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.6, pp.4584-4590, 2019 (SCI-Expanded)

IV. **On function spaces with fractional Fourier transform in weighted Lebesgue spaces**

Toksoy E., Sandıkçı A.

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

Articles Published in Other Journals

I. **Lipschitz spaces under fractional convolution**

Toksoy E.

Advanced Studies: Euro-Tbilisi Mathematical Journal, vol.16, no.4, pp.39-56, 2023 (ESCI)

II. **ON A WEIGHTED ALGEBRA UNDER FRACTIONAL CONVOLUTION**

TOKSOY E.

JOURNAL OF SCIENCE AND ARTS, vol.23, no.4, pp.883-896, 2023 (ESCI)

III. **A Note on Function Spaces with Fractional Fourier Transforms in Wiener-type Spaces**

TOKSOY E.

Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.11, 2023 (Peer-Reviewed Journal)

IV. **On An Abstract Segal Algebra Under Fractional Convolution**

SANDIKÇI A., TOKSOY E.

Montes Taurus J. Pure Appl. Math., vol.4, no.1, pp.1-22, 2022 (Peer-Reviewed Journal)

V. **On Some Properties of Space $S_{\{w\}}^{\{\alpha\}}$**

TOKSOY E., SANDIKÇI A.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.2, pp.923-934, 2020 (Peer-Reviewed Journal)

Books & Book Chapters

I. **On Geometric Structure of Bicomplex Weighted $\mathbb{BC}$ -Modules $lpk(\mathbb{BC})$**

TOKSOY E., DUYAR C.

in: Explorations in Mathematical Analysis: A Collection of Diverse Papers, İlker Eryılmaz, Editor, BIDGE Publications, Ankara, pp.75-102, 2023

Refereed Congress / Symposium Publications in Proceedings

I. **On a New Class of Segal Algebra with Fractional Convolution**

TOKSOY E.

3rd International Artemis Congress on Life, Engineering, and Applied Sciences, İzmir, Turkey, 25 March 2023

II. **FUNCTION SPACES WHOSE FRACTIONAL FOURIER TRANSFORMS ARE IN SUBSPACES OF HOMOGENEOUS BANACH SPACES**

TOKSOY E.

ANADOLU 11TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Diyarbakır, Turkey, 29 - 30 December 2022

III. ON A SEGAL ALGEBRA WITH FRACTIONAL CONVOLUTION

TOKSOY E.

INTERNATIONAL İSTANBUL MODERN SCIENTIFIC RESEARCH CONGRESS-IV, İstanbul, Turkey, 16 - 18 December 2022

IV. FRACTIONAL HONOGENEIOUS BANACH SPACES

TOKSOY E.

2. International Black Sea Modern Scientific Research Congress, Rize, Turkey, 21 - 22 December 2022

V. On An Abstract Segal Algebra Under Fractional Convolution

TOKSOY E., SANDIKÇI A.

Hagia Sophia, 3. International Conference on Multidisciplinary Scientific Studies, İstanbul, Turkey, 15 September 2021

VI. Kesirli Fourier Dönüşümü ile Tanımlanan Fonksiyon Uzayları için Bazı Tıkız ve Tıkız Olmayan Gömülme Teoremleri

TOKSOY E., SANDIKÇI A.

33. ULUSAL MATEMATİK SEMPOZYUMU, İstanbul, Turkey, 31 August - 03 September 2021

VII. Swalphi Uzayının Bazı Özellikleri,

TOKSOY E., SANDIKÇI A.

32. Ulusal Matematik Sempozyumu, Samsun, Turkey, 31 August - 03 September 2019

VIII. Improved of Approximating Function L_1

OKUMUŞ İ., TOKSOY E., ÇELİK E.

International Conference on Applied Analysis and Algebra , 2011, Turkey, 29 June 2011