

# Prof. BİLAL ALTAY

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: ABG-9578-2020

ScopusID: 8233265400

Yoksis Researcher ID: 8954

## Education

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 1997 - 2002

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 1995 - 1997

Undergraduate, Inonu University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1991 - 1995

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Bazı yeni çift dizi uzayları, Inonu University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2002

Postgraduate, Ters çevrilebilir matrisler üzerine, Inonu University, Fen Bilimleri Enstitüsü, Matematik (Dr), 1997

## Research Areas

Mathematics, Functional Analysis, Natural Sciences

## Academic Positions

Professor, Inonu University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2016 - Continues

Professor, Inonu University, Eğitim Fakültesi, İlköğretim, 2011 - 2016

Associate Professor, Inonu University, Eğitim Fakültesi, İlköğretim, 2009 - 2011

Research Assistant PhD, Inonu University, Eğitim Fakültesi, İlköğretim, 2002 - 2009

Research Assistant, Inonu University, Eğitim Fakültesi, İlköğretim, 1995 - 2002

## Academic and Administrative Experience

Dean, Inonu University, Eğitim Fakültesi, 2024 - Continues

Head of Department, Inonu University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2019 - 2024  
Dean, Inonu University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2016 - 2017  
Head of Department, Inonu University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2016 - 2017  
Head of Department, Inonu University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2016 - 2017  
Head of Department, Inonu University, Eğitim Fakültesi, İlköğretim, 2015 - 2016  
Faculty Management Board Member, Inonu University, Eğitim Fakültesi, İlköğretim, 2009 - 2011

## Courses

### Doctorate

Dizi Uzaylarında Matris Dönüşümleri II, Doctorate, 2024 - 2025  
Matrislerle Tanımlanan Dizi Uzayları I, Doctorate, 2024 - 2025  
Bazı Matris Sınıflarının Karakterizasyonu, Doctorate, 2014 - 2015

### Undergraduate

Cebir Öğretimi, Undergraduate, 2024 - 2025  
Cebir Öğretimi, Undergraduate, 2023 - 2024  
Cebir, Undergraduate, 2024 - 2025  
Matematik Öğretiminde Etkinlik Geliştirme, Undergraduate, 2024 - 2025  
Cebir Öğretimi, Undergraduate, 2022 - 2023  
Cebir, Undergraduate, 2023 - 2024  
Cebir, Undergraduate, 2022 - 2023  
CEBİRE GİRİŞ, Undergraduate, 2017 - 2018  
Cebire Giriş, Undergraduate, 2015-2016  
Cebire Giriş, Undergraduate, 2014-2015  
Cebire Giriş, Undergraduate, 2013-2014  
Öğretmenlik Uygulaması, Undergraduate, 2013-2014  
Topluma Hizmet Uygulamaları, Undergraduate, 2013-2014  
Analiz III, Undergraduate, 2013-2014  
Soyut Matematik, Undergraduate, 2013-2014  
Diferensiyel Denklemler, Undergraduate, 2013-2014  
Cebire Giriş, Undergraduate, 2013-2014  
Cebire Giriş , Undergraduate, 2012-2013  
Cebire Giriş, Undergraduate, 2012-2013  
Soyut Matematik, Undergraduate, 2012-2013  
Lineer Cebir I, Undergraduate, 2012-2013  
Cebire Giriş, Undergraduate, 2011-2012  
Cebire Giriş, Undergraduate, 2010-2011

### Undergraduate Minor

Çift İndisli Dizi Uzayları I, Undergraduate Minor, 2012-2013

## Supervised Theses

Altay B., Sanal manipülatiflerle desteklenmiş öz düzenleme stratejisine dayalı öğretimin 7. sınıf oran-orantı konusunda öğrencilerin problem çözme performanslarına ve akıl yürütme becerilerine etkisi, Doctorate, H.GAMZE(Student), 2024  
Altay B., 2005-2021 yılları arasında Türkiye'de ortaokul cebir öğrenme alanında yapılan araştırmaların incelenmesi, Postgraduate, Ş.BARIŞ(Student), 2022  
Altay B., Geliştirilen STEM eğitim modülünün uygulanması sonucunda öğretmen adaylarının orantısal akıl yürütme değişimlerinin incelenmesi, Doctorate, S.NACAR(Student), 2022  
Altay B., Bazı dizi uzayları ve baz çeşitleri, Postgraduate, A.FATMA(Student), 2022

- Altay B., Normlu uzaylarda şartsız yakınsak seriler üzerine, Doctorate, Ş.BALTACI(Student), 2022
- Altay B., 6. sınıf öğrencilerinin kesirler konusundaki imajlarının kavram yanlışları ve başarıları ile ilişkisinin incelenmesi, Doctorate, E.MACİT(Student), 2019
- Altay B., Furkan H., FK-uzaylarının seçkin alt uzayları üzerine, Doctorate, M.TEMİZER(Student), 2019
- Altay B., Yaşaroğlu C., Mobil teknoloji destekli dikişsiz öğrenme ortamlarının 7. sınıf cebir ünitesinde öğrenci başarı ve motivasyonuna etkisi ile sürece ilişkin öğrenci ve veli görüşleri, Doctorate, S.POÇAN(Student), 2019
- ALTAY B., Banach uzaylarında bazı dizi uzaylarının kopyaları üzerine, Doctorate, R.KAMA(Student), 2017
- ALTAY B., İnvaryant dizi uzayları, Postgraduate, M.TEMİZER(Student), 2016
- ALTAY B., Matris etki alanlarının altuzayları üzerine, Postgraduate, A.JULU(Student), 2013
- ALTAY B., Bazı dizi uzaylarının bölümsel özellikleri ve dualleri üzerine, Postgraduate, Y.ATALAN(Student), 2012
- ALTAY B., Çift indisli diziler için çekirdek teoremleri, Doctorate, Y.SEVER(Student), 2010
- ALTAY B., Çift dizilerde I- yakınsaklık üzerine, Doctorate, E.DÜNDAR(Student), 2010
- ALTAY B., FK uzayları üzerine, Postgraduate, M.KARAKUŞ(Student), 2009

## Journal articles indexed in SCI, SSCI, and AHCI

- I. **The Effects of Mobile Technology on Learning Performance and Motivation in Mathematics Education**  
POÇAN S., ALTAY B., YAŞAROĞLU C.  
EDUCATION AND INFORMATION TECHNOLOGIES, vol.28, no.1, pp.683-712, 2023 (SSCI)
- II. **On f-strongly Cesaro and f-statistical derivable functions**  
ALTAY B., Garcia-Pacheco F. J., KAMA R.  
AIMS MATHEMATICS, vol.7, no.6, pp.11276-11291, 2022 (SCI-Expanded)
- III. **Multiplier Sequence Spaces Defined by Statistical Summability and Orlicz-Pettis Theorem**  
KAMA R., ALTAY B.  
NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, vol.42, no.12, pp.1410-1422, 2021 (SCI-Expanded)
- IV. **On Cesaro summability of vector valued multiplier spaces and operator valued series**  
ALTAY B., KAMA R.  
POSITIVITY, vol.22, no.2, pp.575-586, 2018 (SCI-Expanded)
- V. **Weakly unconditionally Cauchy series and Fibonacci sequence spaces**  
KAMA R., ALTAY B.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2017 (SCI-Expanded)
- VI. **I-2-Uniform Convergence of Double Sequences of Functions**  
DÜNDAR E., ALTAY B.  
FILOMAT, vol.30, no.5, pp.1273-1281, 2016 (SCI-Expanded)
- VII. **I-2-CONVERGENCE AND I-2-CAUCHY DOUBLE SEQUENCES**  
DÜNDAR E., ALTAY B.  
ACTA MATHEMATICA SCIENTIA, vol.34, no.2, pp.343-353, 2014 (SCI-Expanded)
- VIII. **On Some Double Cesaro Sequence Spaces**  
SEVER Y., Altay B.  
FILOMAT, vol.28, no.7, pp.1417-1424, 2014 (SCI-Expanded)
- IX. **SOME INEQUALITIES RELATED TO THE PRINGSHEIM, STATISTICAL AND sigma-CORES OF DOUBLE SEQUENCES**  
Cakan C., ALTAY B., Coskun H.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.42, no.2, pp.115-123, 2013 (SCI-Expanded)
- X. **Multipliers for bounded I(2)-convergence of double sequences**  
Dundar E., ALTAY B.  
MATHEMATICAL AND COMPUTER MODELLING, vol.55, pp.1193-1198, 2012 (SCI-Expanded)
- XI. **DOUBLE LACUNARY DENSITY AND LACUNARY STATISTICAL CONVERGENCE OF DOUBLE SEQUENCES**  
Cakan C., ALTAY B., Coskun H.

- STUDIA SCIENTIARUM MATHEMATICARUM HUNGARICA, vol.47, no.1, pp.35-45, 2010 (SCI-Expanded)
- XII. **Matrix transformations on some sequence spaces related to strong Cesaro summability and boundedness**  
ALTAY B., Basar F., Malkowsky E.  
APPLIED MATHEMATICS AND COMPUTATION, vol.211, no.2, pp.255-264, 2009 (SCI-Expanded)
- XIII. **sigma-REGULAR MATRICES AND A sigma-CORE THEOREM FOR DOUBLE SEQUENCES**  
Cakan C., ALTAY B., Coskun H.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.38, no.1, pp.51-58, 2009 (SCI-Expanded)
- XIV. **Matrix transformations on the matrix domains of triangles in the spaces of strongly C-1-summable and bounded sequences**  
Basar F., Malkowsky E., ALTAY B.  
PUBLICATIONES MATHEMATICAE-DEBRECEN, vol.73, pp.193-213, 2008 (SCI-Expanded)
- XV. **Certain topological properties and duals of the domain of a triangle matrix in a sequence space**  
Altay B., Basar F.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.336, no.1, pp.632-645, 2007 (SCI-Expanded)
- XVI. **On the Space of Sequences of p-Bounded Variation and Related Matrix Mappings**  
Altay B., Başar F.  
UKRAINIAN MATHEMATICAL JOURNAL, vol.55, pp.136-147, 2003 (SCI-Expanded)

## Articles Published in Other Journals

- I. **On Some New Rhaly Sequence Spaces and Rhaly Sections in BK-Space**  
DAŞ A., ALTAY B.  
Communications in Advanced Mathematical Sciences, vol.7, no.4, pp.212-219, 2024 (Peer-Reviewed Journal)
- II. **7. Sınıf Öğrencilerine Yönelik Bir Orantısal Akıl Yürütme Beceri Testi (OAYBT) Geliştirilmesi**  
KIRMIZIGÜL H. G., İLHAN A., ALTAY B.  
İnönü Üniversitesi Eğitim Fakültesi Dergisi, vol.24, no.2, pp.1222-1242, 2023 (Peer-Reviewed Journal)
- III. **Spatial ability test for university students: Development, validity and reliability studies**  
AÇIKGÜL K., ŞAD S. N., ALTAY B.  
International Journal of Assessment Tools in Education, vol.10, no.1, pp.76-97, 2023 (ESCI)
- IV. **Examination of prospective primary mathematics teachers' attitudes and self - efficiency beliefs in terms of various variables**  
NACAR S., MACİT E., ALTAY B.  
Journal for the Mathematics Education and Teaching Practices, vol.2, no.2, pp.81-91, 2021 (Peer-Reviewed Journal)
- V. **Matematik Öğretiminde Mobil Teknoloji Kullanımına Yönelik Veli Görüşleri**  
POÇAN S., ALTAY B., YAŞAROĞLU C.  
İnönü Üniversitesi Eğitim Fakültesi Dergisi, vol.22, no.1, pp.500-532, 2021 (Peer-Reviewed Journal)
- VI. **6. Sınıf Öğrencilerinin Kesir Kavram İmajlarının İncelenmesi (Kesrin Farklı Anlamları Temelinde)**  
MACİT E., ALTAY B.  
İnönü Üniversitesi Eğitim Bilimleri Enstitüsü Dergisi, vol.7, no.14, pp.104-118, 2020 (Peer-Reviewed Journal)
- VII. **On Some Semiconservative FK Spaces**  
Temizer Ersoy M., ALTAY B., FURKAN H.  
Electronic Journal of Mathematical Analysis and Applications, 2019 (Peer-Reviewed Journal)
- VIII. **On Some Sequence Spaces Related to a Sequence in a Normed Space**  
KAMA R., ALTAY B.  
Konuralp Journal of Mathematics, vol.7, no.1, pp.33-37, 2019 (Peer-Reviewed Journal)
- IX. **Difference matrix and some multiplier sequence spaces**  
KAMA R., ALTAY B.  
Konuralp Journal of Mathematics, vol.5, no.2, pp.260-267, 2017 (Peer-Reviewed Journal)
- X. **Some sequence spaces and completeness of normed spaces**

- KAMA R., ALTAY B.  
Creative Mathematics and informations, vol.26, no.3, pp.281-287, 2017 (Peer-Reviewed Journal)
- XI. **On Riesz Sections in Sequence Spaces**  
TEMİZER M., ALTAY B., FURKAN H.  
Journal of Advances in Mathematics Computer Science, vol.24, no.3, pp.1-10, 2017 (Peer-Reviewed Journal)
- XII. **On Some Classes of Four Dimensional Regular Matrices**  
SEVER Y., ALTAY B.  
THAI JOURNAL OF MATHEMATICS, vol.14, no.1, pp.13-19, 2016 (ESCI)
- XIII. **I2 CONVERGENCE OF DOUBLE SEQUENCES OF FUNCTIONS**  
DÜNDAR E., ALTAY B.  
Electronic Journal of Mathematical Analysis and Applications, vol.3, no.1, pp.111-121, 2015 (Peer-Reviewed Journal)
- XIV. **On the core of double sequences**  
SEVER Y., ALTAY B.  
Sarajevo Journal of Mathematics, vol.11, pp.273-282, 2015 (Peer-Reviewed Journal)
- XV. **On convergence of double sequences of closed sets**  
SEVER Y., TALO Ö., ALTAY B.  
Contemporary Analysis and Applied Mathematics, vol.3, no.1, pp.30-49, 2015 (Peer-Reviewed Journal)
- XVI. **Domain of Generalized Difference Matrix  $B_{rs}$  on Some Maddox  $s$  Spaces**  
AYDIN C., ALTAY B.  
THAI JOURNAL OF MATHEMATICS, vol.11, no.1, pp.87-102, 2012 (Scopus)
- XVII. **On Some Properties of I2 Convergence and I2 Cauchy of Double Sequences**  
DÜNDAR E., ALTAY B.  
General Math Notes, vol.7, no.1, pp.1-12, 2011 (Peer-Reviewed Journal)
- XVIII. **The fine spectrum and the matrix domain of the difference operator on the sequence space  $lp_0$**   
ALTAY B., BAŞAR F.  
Communications in Mathematical Analysis, vol.2, no.2, pp.1-11, 2007 (Scopus)
- XIX. **On some new Euler difference sequence spaces**  
ALTAY B., POLAT H.  
SOUTHEAST ASIAN BULLETIN OF MATHEMATICS, vol.30, no.2, pp.209-220, 2006 (ESCI)
- XX. **Some paranormed Riesz sequence spaces of non absolute type**  
ALTAY B., BAŞAR F.  
SOUTHEAST ASIAN BULLETIN OF MATHEMATICS, vol.30, no.4, pp.591-608, 2006 (ESCI)
- XXI. **On the spectrum and the fine spectrum of the Zweier matrix as an operator on some sequence spaces**  
KARAKUŞ M., ALTAY B.  
THAI JOURNAL OF MATHEMATICS, vol.3, no.2, pp.153-162, 2005 (ESCI)
- XXII. **On the paranormed Riesz sequence spaces of non absolute type**  
ALTAY B., BAŞAR F.  
Southeast Asian Bull. Math., vol.26, no.5, pp.701-715, 2003 (Peer-Reviewed Journal)
- XXIII. **Matrix mappings on the space  $bs_p$  and its and duals**  
BAŞAR F., ALTAY B.  
Aligarh Bull. Math, vol.21, no.1, pp.79-91, 2002 (Peer-Reviewed Journal)
- XXIV. **On Reversible Matrices**  
ALTAY B., BAŞAR F.  
An. Univ. Timișoara Ser. Mat-Inform, vol.38, no.1, pp.17-26, 2000 (Peer-Reviewed Journal)

## Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Uzamsal Yetenek Testinin Geliştirilmesi: Geçerlik ve Güvenirlilik Çalışmaları**

AÇIKGÜL K., ŞAD S. N., ALTAY B.

VIIth International Eurasian Educational Research Congress, Turkey, 10 - 13 September 2020, (Summary Text)

**II. İlköğretim matematik öğretmen adaylarının işbirlikli öğrenme yöntemine ilişkin görüşleri**

MACİT E., NACAR S., ALTAY B.

IV. Uluslararası Battalgazi Multidisipliner Kongresi, Turkey, 29 February - 01 March 2020, (Summary Text)

**III. Ortaokul matematik öğretmenlerinin kesir kavram yanlışlarına ilişkin görüşleri.**

MACİT E., NACAR S., ALTAY B.

IV. Uluslararası Battalgazi Multidisipliner Kongresi, Turkey, 29 February - 01 March 2020, (Summary Text)

**IV. Cebire Giriş Dersinden İşlem, Cebirsel Yapı ve Grup Kavram İmajları**

NACAR S., Macit E., ALTAY B.

1. Uluslararası 23 Nisan Multidisipliner Çalışmalar Kongresi, 23 - 25 April 2019, (Summary Text)

**V. Science Teacher Candidates' Concept Images of Function**

NACAR S., Macit E., ALTAY B.

International Conference on Education in Mathematics, Science Technology (ICEMST), 28 April - 01 May 2018, (Summary Text)

**VI. Using of Drama Method in History of Science Course**

NACAR S., Macit E., ALTAY B.

International Conference on Education in Mathematics, Science Technology (ICEMST), 28 April - 01 May 2018, (Summary Text)

**VII. New Distinguished Subspaces of Fk Spaces**

TEMİZER M., FURKAN H., ALTAY B.

International Conference on Mathematics and Mathematics Education (ICMME), 11 - 13 May 2017, (Summary Text)

**VIII. Science Teacher Candidates' Concept Images Of Function**

Nacar S., MACİT E., Altay .

International Conference on Education in Mathematics, Science Technology (ICEMST), Antalya, Turkey, 28 April - 01 May 2017, pp.35, (Summary Text)

**IX. Elementary School Teaching Department Students' Concept Images Of Function**

MACİT E., Nacar S., Altay .

International Conference on Education in Mathematics, Science Technology (ICEMST), Antalya, Turkey, 28 April - 01 May 2017, pp.70, (Summary Text)

**X. Unconditionally Cauchy Series and Zewier Matrix Method**

KAMA R., ALTAY B.

International Conference on Analysis and Its Applications (ICAA-2016), 12 - 15 July 2016, (Summary Text)

**XI. On Weakly Sections in Sequence Spaces**

TEMİZER M., FURKAN H., ALTAY B.

international conference on recent advances in pure and applied mathematics, 19 - 23 May 2016, (Summary Text)

**XII. Zweier Matrix Method and Weakly Unconditionally Cauchy series**

KAMA R., ALTAY B.

International Conference on Mathematics and Mathematics Education (ICMME-2016), 12 - 14 May 2016, (Summary Text)

**XIII. Riesz semiconservative FK space**

TEMİZER M., FURKAN H., ALTAY B.

International conference on mathematics and mathematics education(icmme-2016), 12 - 14 May 2016, (Summary Text)

**XIV. On some sectional subspaces of FK spaces**

TEMİZER M., ALTAY B.

International Conference on Advancement in Mathematical Sciences, Antalya, Turkey, 5 - 07 November 2015, (Summary Text)

**XV. New Sectional Properties in FK Spaces and Duals**

TEMİZER M., FURKAN H., ALTAY B.

International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM 2015), İstanbul, Turkey,  
3 - 06 June 2015, (Summary Text)

## **Metrics**

Publication: 55

Citation (WoS): 219

Citation (Scopus): 128

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H-Index (Scopus): 6