# Prof. ALİ ÖZDEMİR

## Personal Information

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**International Researcher IDs**
ORCID: 0000-0001-9330-7084
Yoksis Researcher ID: 110200

## Education

Doctorate, Selcuk University, Turkey 1987 - 1991
Postgraduate, Selcuk University, Turkey 1985 - 1987
Undergraduate, Ataturk University, Turkey 1978 - 1982

## Foreign Languages

English

## Dissertations

Doctorate, M-matrisleri üzerine bir eşitsizlik, Selcuk University, 1991
Postgraduate, Bir matrisin karakteristik matrisinin adjointinin karakteristik polinomunun katsayıları, Selcuk University, 1987

## Research Areas

**Avesis Research Areas:** Natural Sciences
**WoS Research Areas:** Mathematics
**Scopus Research Areas:** General Mathematics

## Academic Positions

Professor, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Matematik, 2025 - Present
Associate Professor, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Matematik, 2021 - 2024
Ondokuz Mayis University, 1992 - 2003
Research Assistant, Selcuk University, 1984 - 1992

## Academic and Administrative Experience

Manisa Celal Bayar University, 2011 - Present

## Courses

**Undergraduate**

DÖNÜŞÜMLER VE GEOMETRİLER (S), Undergraduate, 2017-2018, 2016-2017
MATEMATİK I, Undergraduate, 2017-2018
LİNEER CEBİR I, Undergraduate, 2017-2018, 2016-2017, 2013-2014
LİNEER CEBİR II, Undergraduate, 2017-2018, 2016-2017
MATEMATİK II, Undergraduate, 2017-2018, 2016-2017
ARAŞTIRMA PROJESİ II, Undergraduate, 2017-2018, 2016-2017
ARAŞTIRMA PROJESİ I, Undergraduate, 2017-2018, 2016-2017
LİNEER CEBİR I II, Undergraduate, 2015-2016, 2012-2013, 2011-2012, 2010-2011, 2009-2010
GENEL MATEMATİK, Undergraduate, 2015-2016
ANALİZ III IV, Undergraduate, 2015-2016, 2013-2014, 2012-2013, 2011-2012, 2010-2011, 2009-2010
ANAİLİZ III IV, Undergraduate, 2014-2015
LİNEER CEBİR, Undergraduate, 2014-2015

**Undergraduate Minor**

NEGATİF OLMAYAN MATRİSLER, Undergraduate Minor, 2017-2018, 2016-2017, 2015-2016, 2014-2015, 2013-2014, 2012-2013
MATRİS EŞİTSİZLİKLERİ, Undergraduate Minor, 2017-2018, 2016-2017, 2015-2016, 2014-2015

**Undergraduate Double Major**

İLERİ MATRİS TEORİSİ II, Undergraduate Double Major, 2017-2018, 2016-2017
İLERİ MATRİS TEORİSİ I, Undergraduate Double Major, 2017-2018, 2016-2017
İLERİ MATRİS TEORİSİ I II, Undergraduate Double Major, 2015-2016
İLERİ MATRİS TEORİSİ, Undergraduate Double Major, 2014-2015
İLERİ MATRİS TEORİSİ I (YL) I II, Undergraduate Double Major, 2013-2014, 2012-2013
MATRİS EŞİTSİZLİKLERİ I II, Undergraduate Double Major, 2012-2013, 2009-2010
İLERİ MATRİS TEORİSİ I (YL), Undergraduate Double Major, 2011-2012
İLERİ MATRİS TEORİSİ (YL) I II, Undergraduate Double Major, 2010-2011

## Supervised Theses

ÖZDEMİR A., Programlamaya yönelik mobil oyun geliştirilmesi ve bulanık mantık tabanlı android uygulama ile tutumun incelenmesi, Doctorate, K.FİLİZ(Student), 2020
ÖZDEMİR A., Bulanık mantık tabanlı gregorc öğrenme stili modeli gerçekleştirimi, Postgraduate, V.ÇINARLI(Student), 2019
ÖZDEMİR A., 3-boyutlu öklid uzayında bishop çatısına göre uzay eğrilerinin bazı karakterizasyonları, Postgraduate, M.SÖNMEZ(Student), 2017
ÖZDEMİR A., Honey & Mumford ve Mccarthy öğrenme stili modellerinin bulanık mantık tabanlı gerçekleştirimi ve performans analizi, Postgraduate, K.FİLİZ(Student), 2016
ÖZDEMİR A., Bulanık mantık tabanlı dunn öğrenme stili modeli gerçekleştirimi, Postgraduate, M.UYSAL(Student), 2016
ÖZDEMİR A., Minkowski 3-uzayında Bishop çatısına göre uzay eğrilerinin bazı karakterizasyonları, Postgraduate, B.ARDA(Student), 2012
ÖZDEMİR A., Dual hiperbolik küresel trigonometride temel bağlantılar, Postgraduate, M.EMRE(Student), 2004

## Articles

I. **An analysis of cystic fibrosis transmembrane conductance regulator gene variants in the Cystic Fibrosis Registry of Türkiye**
Capraz Yavuz B., Kara A. S., DAYANGAÇ ERDEN D., Sen V., Selimoglu Sen H., Oztosun B., Korkmaz C., Ayzit Kilinc A., Savas S., Ercan F., et al.
European Journal of Pediatrics, vol.185, no.11, 2026 (SCI-Expanded, Scopus)

II. **Determination of the yearly distribution of the incidence of Allergic Bronchopulmonary Aspergillosis (ABPA) in patients registered in the cystic fibrosis patient registry system of Turkey and identification of risk factors for its development**
Demir H. İ., Yalçın E., Büyükşahin H. N., Savaş S., Şen V., Şen H. S., Başkan A. K., KILINÇ SAKALLI A. A., Yazan H., Çollak A., et al.
Chronic Illness, vol.22, no.3, pp.229-239, 2026 (SCI-Expanded, SSCI, Scopus)

III. **Clinical features associated with Pseudomonas aeruginosa colonization in children under 2 years of age: a retrospective study of Cystic Fibrosis Registry**
Ocak E., Cinel G., TUĞCU G. D., Polat S. E., Tural D. A., ÖZSEZEN B., Yalçın E., Kiper N., Şen V., Şen H. S., et al.
Turkish Journal of Pediatrics, vol.68, no.3, pp.439-449, 2026 (SCI-Expanded, Scopus, TRDizin)

IV. **Clinical characteristics and risk factors of patients with cystic fibrosis-related diabetes and pre-diabetes: cohort of cystic fibrosis registry of Türkiye**
Özaslan M. M., Kartal Öztürk G., Gülen F., DEMİRDÖĞEN E., ÇOBANOĞLU F. N., Tekin M. N., BİNGÖL A., BAŞARAN A. E., Şen V., Ünal E., et al.
Journal of Pediatric Endocrinology and Metabolism, vol.39, no.5, pp.440-448, 2026 (SCI-Expanded, Scopus)

V. **Pediatric pulmonologists' current practices and variations in flexible bronchoscopy: a national survey study from Türkiye**
Ocak E., Başaran E., Çakır E., ÇOBANOĞLU F. N., Ergenekon P., Polat S. E., Girit S., Öztürk G. K., KILINÇ SAKALLI A. A., KÖSE M., et al.
Turkish Journal of Pediatrics, vol.68, no.2, pp.261-276, 2026 (SCI-Expanded, Scopus, TRDizin)

VI. **The Evaluation of the Genotype and Phenotype Relationship in Patients With Nasal Polyps in Cystic Fibrosis Registry of Turkey**
Kekeç H., Eyüboğlu T. Ş., ASLAN A. T., MEDENİ V., Yalçın E., İpek Ö. F., KANTEMİR T., Tokdemir B. E., Ayman F. N., Gülen F., et al.
Pediatric Pulmonology, vol.61, no.4, 2026 (SCI-Expanded, Scopus)

VII. **Lung function outcomes of cystic fibrosis patients after early-life pulmonary exacerbations: National registry analysis**
Özkan Tabakçı S., Uytun S., Eryılmaz Polat S., Cinel G., Yalçın E., Kiper N., Akgül Erdal M., Şen V., Savaş S., Çelebi Ö., et al.
Pediatrics International, vol.68, no.1, 2026 (SCI-Expanded, Scopus)

VIII. **Current Status of Cystic Fibrosis in Türkiye: Data from the National Registry**
Tural D. A., Eyuboglu T. S., CINEL G., Cakir E., PEKCAN S., Özçelik U., Emiralioglu N., Yalçın E. G., Büyükşahin H. N., Serbes M., et al.
Thoracic research and practice, vol.26, no.5, pp.238-247, 2025 (ESCI, Scopus, TRDizin)

IX. **Impact of Modulator Therapy on the Chronic Colonization of Lower Respiratory Tract Pathogens in Children: Data From Cystic Fibrosis Registry of Turkey**
Sunman B., Yalçın E., Erdal M. A., Şen V., Başkan A. K., KILINÇ SAKALLI A. A., YAZAN H., Çakır E., Demir A. D., Ünal G., et al.
Pediatric Pulmonology, vol.60, no.6, 2025 (SCI-Expanded, Scopus)

X. **İki Biarum Taksonunun Mikromorfolojik Özelliklerinin İstatistiksel**
ÖZDEMİR C., ÖZDEMİR A.
Journal of New Results in Engineering and Natural Science, vol.15, pp.13-20, 2022 (Peer-Reviewed Journal)

XI. **A geometric modeling of tracheal elements of the chard (Beta vulgaris) leaf Uma Modelagem Geométrica de Elementos Traqueais da Folha de Acelga (Beta vulgaris)**
Arslan K., Bulca Sokur B., Özdemir C., Özdemir A., Bozdag B.
Planta Daninha, vol.37, 2019 (SCI-Expanded, Scopus)

XII. **Assesment of element concentrations in soil, root and leaf of spinach plant (Spinacia oleracea L.) grown in manisa**
ÇAM KAYNAR S., HİÇSÖNMEZ Ü., ÖZDEMİR A., ÖZDEMİR C.
Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.8, no.2, pp.131-140, 2018 (TRDizin)

XIII. **Hyperbolic Sine and Cosine Rules for Geodesic Triangles on the Hyperbolic Unit Sphere**

ÖZDEMİR A., KAZAZ M.
Mathematical and Computational Applications, vol.10, no.2, pp.203-209, 2005 (Scopus)

## Books

I. **Bulanık Mantık Tabanlı Öğrenme Stili Belirleme Sistemi**
BALBAL K. F., ÖZDEMİR A., ALAYBEYOĞLU YILMAZ A.
LAP LAMBERT Academic Publishing, 2016

## Papers Presented at Peer-Reviewed Scientific Conferences

I. **An Example of Folium Curve Geometric Modeling from Nature**
ÖZDEMİR A., ÖZDEMİR C.
7th International Conference on Frontiers in Academic Research, 15 March 2026, (Full Text)

II. **Cardioid (Heart Curve) Geometric Modeling in Nature**
ÖZDEMİR A., ÖZDEMİR C.
7th International Conference on Frontiers in Academic Research, Turkey, 15 March 2026, (Full Text)

III. **Angular Round Geometric Modeling in Microstructures**
ÖZDEMİR A., ÖZDEMİR C.
6rd International Conference on Trends in Advanced Research : Konya, Turkey, Turkey, 04 March 2026, (Full Text)

IV. **An One-Sheet Hyperboloid Geometric Modeling in Nature**
ÖZDEMİR A., ÖZDEMİR C.
6rd International Conference on Trends in Advanced Research, Turkey, 04 March 2026, (Full Text)

V. **Elliptic Paraboloid Geometric Modeling in Nature**
ÖZDEMİR A., ÖZDEMİR C.
8th International Conference on Scientific and Academic Research February 26-27, 2026: Konya, Turkey, 26 February 2026, (Full Text)

VI. **A Similar Example From Nature To Snub Dodecahedron Geometric Modeling**
ÖZDEMİR A., ÖZDEMİR C.
8th International Conference on Scientific and Academic Research February 26-27, 2026: Konya, Turkey, 26 February 2026, (Full Text)

VII. **Barrel Solid Geometric Modeling of Some Plant Structures**
ÖZDEMİR A., ÖZDEMİR C.
8th International Conference on Scientific and Academic Research February 26-27, 2026: Konya, Turkey, 26 February 2026, (Full Text)

VIII. **An Example Fermat's Spiral Geometric Modeling From Nature**
ÖZDEMİR A., ÖZDEMİR C.
8th International Conference on Scientific and Academic Research February 26-27, 2026: Konya, Turkey, 26 February 2026, (Full Text)

IX. **An Example of Spiral of Theodorus Geometric Modeling in Nature**
ÖZDEMİR A., ÖZDEMİR C.
8th International Conference on Scientific and Academic Research February 26-27, 2026: Konya, Turkey, 26 February 2026, (Full Text)

X. **Doğada Prolat Sferoid Geometrik Modellemenin Bir Örneği**
ÖZDEMİR A., ÖZDEMİR C.
3RD INTERNATIONAL CONFERENCE ON TRENDS IN ADVANCED RESEARCH ICTAR 2025 April 04-05, 2025, KONYA, TURKEY, 4 - 05 April 2025, (Full Text)

XI. **Pentagonal Geometrik Modele Sahip Bazı MikroYapılar**

ÖZDEMİR A., ÖZDEMİR C.
5 th International Conference on Engineering, Natural and Social Sciences, 15 - 16 April 2025, (Full Text)

XII. **Mikro Nonagon Geometrik Modellemeler**
ÖZDEMİR A., ÖZDEMİR C.
5 th International Conference on Engineering, Natural and Social Sciences, 14 - 15 April 2025, (Full Text)

XIII. **Hekzagonal Tiling Geometrik Modelin Mikro Örnekleri**
ÖZDEMİR A., ÖZDEMİR C.
5 th International Conference on Engineering, Natural and Social Sciences, 15 - 16 April 2025, (Full Text)

XIV. **Polihedron (Çokyüzlü) Geometrik Modellemesine Doğadan Bir Örnek**
ÖZDEMİR A., ÖZDEMİR C.
3 rd International Conference on Trends in Advanced Research, 4 - 05 April 2025, (Full Text)

XV. **Uzay Doldurma Eğrisinin (space-filling curve)**
ÖZDEMİR A., ÖZDEMİR C.
3rd International Conference on Trends in Advanced Research ICTAR 2025, Konya, Turkey, 4 - 05 April 2025, (Full Text)

XVI. **Bazı Mikro Karakterlerde Bor Etkisinin İstatistiksel Analizi**
ÖZDEMİR A., ÖZDEMİR C.
6th International Conference on Innovative Academic Studies March 12 – 13 in 2025 at Konya/Turkey., 12 - 13 March 2025, (Full Text)

XVII. **Farklı Bitki Genotiplerinin Bazı Mikro Karakterlerinde Sayısal Değerlendirmeler**
ÖZDEMİR A., ÖZDEMİR C.
6th International Conference on Innovative Academic Studies March 12 – 13 in 2025 at Konya/Turkey., 12 - 13 March 2025, (Full Text)

XVIII. **Bazı Mikro Geometrik Yapılarda Çap Ölçülerinin Karşılaştırması**
ÖZDEMİR A., ÖZDEMİR C.
6TH INTERNATIONAL CONFERENCE ON SCIENTIFIC AND ACADEMIC RESEARCH ICSAR 2025, 19 - 20 March 2025, (Full Text)

XIX. **Farklı Bitki Genotiplerinin Bazı Mikro Karakterlerinde Sayısal**
ÖZDEMİR A., ÖZDEMİR C.
6th International Conference on Innovative Academic Studies, 12 - 13 March 2025, (Full Text)

XX. **Uzay Doldurma Eğrisinin (space-filling curve) Mikro Yapıda Geometrik Modellemesi**
ÖZDEMİR A., ÖZDEMİR C.
3rd International Conference on Trends in Advanced Research ICTAR 2025, 4 - 05 April 2025, (Full Text)

## Funded Projects

ÖZDEMİR C., ÖZDEMİR A., AKYOL Y., BOZDAĞ B., Project Supported by Higher Education Institutions, BAP Research Project, Kıyı Ege'de Yayılış Gösteren Limonium Mill. Cinsine Ait Türlerin Anatomik Yapılarının Nümerik Analizi, 2017 - 2019

## Design

Özdemir A., Alaybeyoğlu A., Balbal K. F., A DESIGN OF ADROID BASED CHECK- LIST FOR INCREASING FLIGHT SAFETY AND REDUCUNG AIRCRAFT ACCIDENTS, Graphic Design / Web Design, July 2017

Özdemir A., Alaybeyoğlu A., Balbal K. F., A DESIGN OF EDUCATIONAL COMPUTER GAME, Graphic Design / Web Design, May 2017

Özdemir A., Alaybeyoğlu A., Balbal K. F., A DESIGN OF WEB BASED LEARNING ENVIRONMENT, Graphic Design / Web Design, May 2017

Özdemir A., Alaybeyoğlu A., A DESIGN OF IMAGE COMPRESSION SYSTEM FOR MOBILE DEVICES, Graphic Design / Web

Design, May 2017

## Metrics

Publication: 194
Citation (WoS): 7
Citation (Scopus): 9
H-Index (WoS): 2
H-Index (Scopus): 2