

## Prof. NURİ ÖZALP



### Personal Information

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Publons / Web Of Science ResearcherID: H-9453-2017

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### Education Information

Doctorate, University of Louisiana at Lafayette, Mathematics, United States Of America  
1988 - 1993

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey  
1983 - 1985

Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 1979 -  
1983

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Global Existence of Solutions and Quenching for Parabolic Mixed Boundary Value Problem, The University Of Southwestern Louisiana, Matematik, 1993

Postgraduate, alfa-hiperyüzeyleri ve kısmi türevli bir denklem sınıfı için temel çözümler, Ankara University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 1985

### Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 2014 - Continues

Associate Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 2008 - 2014

Assistant Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 1994 - 2008

Research Assistant, University of Louisiana at Lafayette, Science, Mathematics, 1989 - 1993

Research Assistant, Ankara University, Fen Fakültesi, Matematik Bölümü, 1984 - 1986

### Academic and Administrative Experience

Ankara University, 2017 - 2020

## Courses

İleri Programlama, Undergraduate, 2013 - 2014, 2011 - 2012, 2009 - 2010, 2007 - 2008, 2005 - 2006, 2003 - 2004, 2001 - 2002

Matematiksel Modelleme, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

Monoton İteratif Teknikler, Doctorate, 2013 - 2014

Asimptotik ve Perturbasyon Yöntemler, Postgraduate, 2013 - 2014, 2011 - 2012, 2009 - 2010, 2007 - 2008, 2005 - 2006, 2003 - 2004, 2001 - 2002

Nümerik Analiz, Undergraduate, 2013 - 2014, 2012 - 2013, 2010 - 2011, 2008 - 2009, 2006 - 2007, 2004 - 2005, 2002 - 2003, 2000 - 2001

## Advising Theses

ÖZALP N., On some fractional dynamic models, Doctorate, Ö.ÖZTÜRK(Student), 2018

ÖZALP N., Kesirli basamaktan lineer olmayan bir model üzerine, Doctorate, Y.SOFUOĞLU(Student), 2015

ÖZALP N., Kesirli basamaktan lineer olmayan bir model üzerine, Y.SOFUOĞLU(Student), 2015

ÖZALP N., Bir parabolik denklemin çözümlerinin sönümü, Doctorate, B.SELÇUK(Student), 2014

ÖZALP N., Kesirli basamaktan bir diferensiyel denklem sistemi üzerine, Doctorate, İ.KOCA(Student), 2013

ÖZALP N., Kesirli basamaktan bazı diferensiyel denklem modelleri, Postgraduate, A.LÜLECİ(Student), 2011

ÖZALP N., Kesirli basamaktan bir diferensiyel denklem üzerine, Doctorate, E.DEMİRCİ(Student), 2011

ÖZALP N., Kesirli diferensiyel denklemler için monoton yöntemler, Postgraduate, İ.BALTACI(Student), 2009

ÖZALP N., Sonlu elemanlar ile bazı kısmi türevli denklemlerin çözüm algoritmaları, Postgraduate, A.MAHMOOD(Student), 2008

ÖZALP N., Popülasyon modelleri ve uygulamaları, Postgraduate, B.SÜTCÜ(Student), 2008

ÖZALP N., Bazı sınır değer problemleri ve uygulamaları, Postgraduate, S.AÇIKGÖZ(Student), 2007

ÖZALP N., Bazı kısmi türevli denklemler için nümerik algoritmalar, Postgraduate, G.MEHMETLİOĞLU(Student), 2007

ÖZALP N., Isı denklemi için yaklaşım teorisi yöntemleri, Postgraduate, D.KAHYA(Student), 2007

ÖZALP N., Fonksiyon yaklaşımları ve çeşitli bağlayıcı fonksiyonlar, Postgraduate, E.DEMİRCİ(Student), 2005

ÖZALP N., Lineer programlar ve bilgisayar çözümleri, Postgraduate, N.BEYLEM(Student), 2003

ÖZALP N., Matris hesapları içeren bazı problemler için algoritmalar, Postgraduate, G.ALTINOKLU(Student), 2002

ÖZALP N., Vektör uzayları yöntemleri ile bazı optimizasyon problemleri, Postgraduate, A.BILIKÇI(Student), 2002

ÖZALP N., Bazı matematiksel modellerin yaklaşık çözümleri için monoton iteratif teknikler, Postgraduate, C.KÖSE(Student), 2001

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

- I. **Fractional analog of a chemical system inspired by Braess' paradox**  
Mizrak O. O., ÖZALP N.  
COMPUTATIONAL & APPLIED MATHEMATICS, vol.37, no.3, pp.2503-2518, 2018 (SCI-Expanded)
- II. **Fractional Laplace transform method in the framework of the CTIT transformation**  
ÖZALP N., Mizrak O. O.  
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.317, pp.90-99, 2017 (SCI-Expanded)
- III. **QUENCHING BEHAVIOR OF SEMILINEAR HEAT EQUATIONS WITH SINGULAR BOUNDARY CONDITIONS**  
Selcuk B., ÖZALP N.  
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, vol.2015, 2015 (SCI-Expanded)

- IV. **BLOW UP AND QUENCHING FOR A PROBLEM WITH NONLINEAR BOUNDARY CONDITIONS**  
 ÖZALP N., Selcuk B.  
 ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, vol.2015, 2015 (SCI-Expanded)
- V. **The quenching behavior of a nonlinear parabolic equation with a singular boundary condition**  
 ÖZALP N., Selcuk B.  
 HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.44, no.3, pp.615-621, 2015 (SCI-Expanded)
- VI. **THE QUENCHING BEHAVIOR OF A SEMILINEAR HEAT EQUATION WITH A SINGULAR BOUNDARY OUTFLOW**  
 Selcuk B., ÖZALP N.  
 QUARTERLY OF APPLIED MATHEMATICS, vol.72, no.4, pp.747-752, 2014 (SCI-Expanded)
- VII. **Analysis of a Fractional-Order Couple Model with Acceleration in Feelings**  
 Koca I., ÖZALP N.  
 SCIENTIFIC WORLD JOURNAL, 2013 (SCI-Expanded)
- VIII. **A fractional order nonlinear dynamical model of interpersonal relationships**  
 ÖZALP N., Koca I.  
 ADVANCES IN DIFFERENCE EQUATIONS, vol.2012, 2012 (SCI-Expanded)
- IX. **On convergence, asymptotic behaviour and computational algorithm of generalized exponential integral functions arising in a radiative transfer**  
 BAYRAM E., ÖZALP N.  
 JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.113, no.14, pp.1818-1825, 2012 (SCI-Expanded)
- X. **A method for solving differential equations of fractional order**  
 DEMİRCİ E., ÖZALP N.  
 JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.236, no.11, pp.2754-2762, 2012 (SCI-Expanded)
- XI. **Uniform convergence and numerical computation of the Hubbell radiation rectangular source integral**  
 BAYRAM E., ÖZALP N.  
 RADIATION PHYSICS AND CHEMISTRY, vol.80, no.12, pp.1312-1315, 2011 (SCI-Expanded)
- XII. **A fractional order SEIR model with vertical transmission**  
 ÖZALP N., DEMİRCİ E.  
 MATHEMATICAL AND COMPUTER MODELLING, vol.54, no.1-2, pp.1-6, 2011 (SCI-Expanded)
- XIII. **A FRACTIONAL ORDER SEIR MODEL WITH DENSITY DEPENDENT DEATH RATE**  
 DEMİRCİ E., ÜNAL A., ÖZALP N.  
 HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.40, no.2, pp.287-295, 2011 (SCI-Expanded)
- XIV. **Uniform convergence and computation of the generalized exponential integrals**  
 ÖZALP N., BAYRAM E.  
 JOURNAL OF MATHEMATICAL CHEMISTRY, vol.49, no.2, pp.520-530, 2011 (SCI-Expanded)
- XV. **Solutions for a class of iterated singular equations**  
 Cetinkaya A., ÖZALP N.  
 PROCEEDINGS OF THE INDIAN ACADEMY OF SCIENCES-MATHEMATICAL SCIENCES, vol.117, no.2, pp.259-265, 2007 (SCI-Expanded)
- XVI. **A computational method for hypersurfaces in terms of gamma function**  
 ÖZALP N.  
 APPLIED MATHEMATICS AND COMPUTATION, vol.161, no.3, pp.721-732, 2005 (SCI-Expanded)
- XVII. **Radial solutions of a class of iterated partial differential equations**  
 ÖZALP N., Cetinkaya A.  
 CZECHOSLOVAK MATHEMATICAL JOURNAL, vol.55, no.2, pp.531-541, 2005 (SCI-Expanded)
- XVIII. **The Harnack inequalities for nonnegative solutions of an elliptic and ultra-hyperbolic equation**  
 ÖZALP N., Taşdelen F.  
 Mathematical and Computational Applications, vol.7, no.3, pp.229-234, 2002 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A fractional mathematical model approach on glioblastoma growth: tumor visibility timing and patient survival**  
Kar N., ÖZALP N.  
Mathematical Modelling and Numerical Simulation with Applications, vol.4, no.1, pp.66-85, 2024 (Peer-Reviewed Journal)
- II. **Fractional Order Bilingualism Model Without Conversion from Dominant Unilingual Group to Bilingual Group**  
Sofuoglu Y., ÖZALP N.  
DIFFERENTIAL EQUATIONS AND DYNAMICAL SYSTEMS, vol.25, no.1, pp.1-9, 2017 (ESCI)
- III. **Monotone iterative technique for a coupled system of first order differential equations**  
DEMİRCİ HAMAMCIOĞLU E., ÖZALP N.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.62, no.2, pp.1-11, 2013 (ESCI)

## Books & Book Chapters

- I. **Fourier Serileri ve Sınır Değer Problemleriyle Uygulamalı Kısmi Türevli Denklemler**  
ÖZALP N.  
Nobel, Ankara, 2024
- II. **Matematiksel Yöntemler**  
ÖZALP N.  
Akademi Yayın Hizmetleri, Ankara, 2019
- III. **MATEMATİKSEL MODELLEME**  
ÖZALP N.  
GAZİ, Ankara, 2015
- IV. **Nümerik Analiz Bilimsel Hesaplama Matematiği**  
ÖZALP N., DEMİRCİ HAMAMCIOĞLU E.  
Gazi Kitabevi, Ankara, 2012

## Refereed Congress / Symposium Publications in Proceedings

- I. **Kesirli Basamaktan bir Epidemik Model**  
ÖZALP N., ÜNAL A., DEMİRCİ HAMAMCIOĞLU E.  
V. Ankara Matematik Günleri Sempozyumu, Ankara, Turkey, 3 - 04 June 2010
- II. **Lineer olmayan başlangıç sınır değer problemleri için monoton iteratif yöntem**  
DEMİRCİ HAMAMCIOĞLU E., ÖZALP N.  
III. Ankara Matematik Günleri Sempozyumu, Turkey, 22 - 23 May 2008

## Metrics

Publication: 27

Citation (WoS): 359

Citation (Scopus): 449

H-Index (WoS): 7

H-Index (Scopus): 8