

## Dr.Öğr.Üyesi ÖNDER TÜRK

### Kişisel Bilgiler

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### Araştırma Alanları

Diferansiyel denklemler, Kısmi diferansiyel eşitlikler, Sayısal Analiz, Yaklaşımlar ve Açılımlar

### Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, Orta Doğu Teknik Üniversitesi, Uygulamalı Matematik Enstitüsü, 2020 - Devam Ediyor

### Mesleki Deneyim

Enstitü Müdür Yardımcısı, Orta Doğu Teknik Üniversitesi, Uygulamalı Matematik Enstitüsü, 2020 - Devam Ediyor

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A DRBEM approximation of the Steklov eigenvalue problem**  
TÜRK Ö.  
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, cilt.122, ss.232-241, 2021 (SCI İndekslerine Giren Dergi)
- II. **An MHD Stokes eigenvalue problem and its approximation by a spectral collocation method**  
Türk Ö.  
Computers and Mathematics with Applications, cilt.80, ss.2045-2056, 2020 (SCI İndekslerine Giren Dergi)
- III. **Approximation of the Stokes eigenvalue problem on triangular domains using a stabilized finite element method**  
Türk Ö.  
MECCANICA, cilt.55, ss.2021-2031, 2020 (SCI İndekslerine Giren Dergi)
- IV. **Chebyshev spectral collocation method approximations of the Stokes eigenvalue problem based on penalty techniques**  
Turk Ö., Codina R.  
APPLIED NUMERICAL MATHEMATICS, cilt.145, ss.188-200, 2019 (SCI İndekslerine Giren Dergi)
- V. **A stabilized finite element method for the two-field and three-field Stokes eigenvalue problems**  
Turk Ö., Boffi D., Codina R.  
COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING, cilt.310, ss.886-905, 2016 (SCI İndekslerine Giren Dergi)
- VI. **A FEM approach to biomagnetic fluid flow in multiple stenosed channels**  
Turk Ö., Bozkaya C., Tezer M.  
COMPUTERS & FLUIDS, cilt.97, ss.40-51, 2014 (SCI İndekslerine Giren Dergi)
- VII. **Finite element study of biomagnetic fluid flow in a symmetrically stenosed channel**  
Turk Ö., Tezer M., Bozkaya C.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.259, ss.760-770, 2014 (SCI İndekslerine Giren Dergi)

VIII. **BEM and FEM based numerical simulations for biomagnetic fluid flow**

Tezer M., Bozkaya C., Turk Ö.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, cilt.37, sa.9, ss.1127-1135, 2013 (SCI İndekslerine Giren Dergi)

IX. **Chebyshev Spectral Collocation Method for Unsteady Mhd Flow and Heat Transfer of a Dusty Fluid Between Parallel Plates**

Turk Ö., Tezer-Sezgin M.

NUMERICAL HEAT TRANSFER PART A-APPLICATIONS, cilt.64, sa.7, ss.597-610, 2013 (SCI İndekslerine Giren Dergi)

X. **FEM solution of natural convection flow in square enclosures under magnetic field**

Turk Ö., Tezer-Sezgin M.

INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, cilt.23, sa.5, ss.844-866, 2013 (SCI İndekslerine Giren Dergi)

### **Diğer Dergilerde Yayınlanan Makaleler**

I. **Chebyshev Spectral Collocation Method Approximation to Thermally Coupled MHD Equations**

TÜRK Ö.

Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.22, ss.355-366, 2018 (Diğer Kurumların Hakemli Dergileri)

### **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

I. **Boundary Perturbations in Laplace and Steklov Eigenproblems**

Bahadır E., TÜRK Ö.

3rd International E-Conference on Mathematical Advances and Applications, İstanbul, Türkiye, 24 - 27 Haziran 2020, ss.76

II. **Modal analysis of elastic vibrations of incompressible materials based on a variational multiscale finite element method**

Codina R., TÜRK Ö.

European Numerical Mathematics and Advanced Applications Conference 2019, Egmond aan Zee, Hollanda, 30 Eylül - 04 Ekim 2019

III. **A CSCM approximation of steady MHD flow and heat transfer between parallel plates with hydrodynamic slip and convective boundary conditions**

TEZER M., TÜRK Ö.

European Numerical Mathematics and Advanced Applications Conference 2019, Egmond aan Zee, Hollanda, 30 Eylül - 04 Ekim 2019

IV. **Numerical approximation of the Stokes eigenvalue problem in cubic domain based on penalty technique**

Codina R., TÜRK Ö.

The International Congress of Mathematicians, Rio de Janeiro, Brezilya, 1 - 09 Ağustos 2018, ss.91-92

V. **Chebyshev spectral collocation method approximations of the Stokes eigenvalue problem based on penalty techniques**

TÜRK Ö., Codina R.

European Conference on Numerical Mathematics and Advanced Applications (ENUMATH) 2017, Voss, Norveç, 25 - 29 Eylül 2017, ss.322

VI. **A stabilized finite element method for the two-field and three-field Stokes eigenvalue problems**

Boffi D., Codina R., TÜRK Ö.

Computational Methods in Applied Mathematics (CMAM-7), Jyväskylä, Finlandiya, 31 Temmuz - 06 Ağustos 2016, ss.65

**VII. A finite element formulation for Maxwell eigenvalue problem using continuous Lagrangian interpolations**

TÜRK Ö., Codina R., Boffi D.

THE MATHEMATICS OF FINITE ELEMENTS AND APPLICATIONS 2016, Londrina, Brezilya, 14 - 17 Temmuz 2016, ss.266

**VIII. A DRBEM Approach for the STOKES Eigenvalue Problem**

TEZER M., TÜRK Ö.

Inter. Conf. on Computational and Mathematical Methods in Science and Engineering, CMMSE 2016, Rota-Cadiz, İspanya, 4 - 08 Temmuz 2016, ss.1210-1219

**IX. Chebyshev Spectral Collocation Method for Natural Convection Flow of a Micropolar Nanofluid in the Presence of a Magnetic Field**

Türk Ö.

European Conference on Numerical Mathematics and Advanced Applications (ENUMATH), Ankara, Türkiye, 14 - 18 Eylül 2015, cilt.112, ss.453-461

**X. Natural Convection Flow of a nanofluid in an Enclosure under a uniform magnetic field**

TEZER M., BOZKAYA C., TÜRK Ö.

Advances in Boundary Element & and Meshless Techniques XVI, Valencia, İspanya, 6 - 08 Temmuz 2015, cilt.16, ss.138-143

**XI. Biomagnetic fluid flow in a channel under the effect of a uniform localized magnetic field**

TÜRK Ö., BOZKAYA C., TEZER M.

Advances in Boundary Element and Meshless Techniques XV, İtalya, 15 - 17 Temmuz 2014, ss.81-86

**XII. Biofluidflow in a channel with stenosis**

TÜRK Ö., TEZER M., BOZKAYA C.

International Conference on Applied and Computational Mathematics, Ankara, Türkiye, 3 - 06 Ekim 2012, ss.87-88

**XIII. FEM solution to unsteady biomagnetic fluid flow in a channel**

TEZER M., TÜRK Ö., BOZKAYA C.

Mathematical Modeling and Computational Topics in Biosciences, Vietri sul Mare, İtalya, 4 - 08 Haziran 2012, ss.163-164

**XIV. FEM Solution of Diffusion-Convection-Reaction Equations in Air Pollution**

TÜRK Ö., TEZER M.

European Conference on Numerical Mathematics and Advanced Applications, ENUMATH 2009, Uppsala, İsveç, 29 Haziran - 03 Temmuz 2009, ss.275

## Desteklenen Projeler

TEZER M., TÜRK Ö., Yükseköğretim Kurumları Destekli Proje, İçinde Parçacıklar Bulunduran Sıvıların Zamana Bağımlı Magnetohidrodinamik Akışı Ve Isı Transferi, 2011 - 2011

TEZER M., TÜRK Ö., Yükseköğretim Kurumları Destekli Proje, Numerical Solution Of Liquid Metal Magnetohydrodynamics(mhd) Flow With Heat Transfer, 2010 - 2010

## Etkinlik Organizasyonlarındaki Görevler

Bozkaya C., Küçüksakallı Ö., Türk Ö., Numerical Analysis and Computational Fluid Dynamics: Workshop in Honor of MÜNEVVER TEZER-SEZGİN's 67th Birthday, Çalıştay Organizasyonu, Ankara, Türkiye, Nisan 2019

## Atıflar

Toplam Atıf Sayısı (WOS):42

h-indeksi (WOS):5