

## Asst. Prof. EYLEM ÖZTÜRK

### Personal Information

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**Address:** Hacettepe Üniv, Fen Fakültesi, Matematik Bölümü

### International Researcher IDs

ORCID: 0000-0002-0636-3430

Yoksis Researcher ID: 101834

### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Matematik Bölümü, Turkey 2008 - 2014

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Matematik Bölümü, Turkey 2005 - 2008

Undergraduate, Hacettepe University, Fen Fakültesi, Matematik Bölümü, Turkey 2000 - 2005

### Dissertations

Doctorate, Bir sınıf doğrusal olmayan difüzyon-reaksiyon denklemlerinin incelenmesi, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2014

Postgraduate, Yamabe tipli denklem için 3. sınıf sınır probleminin incelenmesi, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2008

### Research Areas

Mathematics, Differential Equations, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2018 - Continues

Research Assistant PhD, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2014 - 2018

Research Assistant, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2005 - 2014

### Academic and Administrative Experience

Deputy Head of Department, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2023 - Continues

### Courses

#### Undergraduate

Fonksiyonlar Teorisi ve Fonksiyonel Analizin Temelleri, Undergraduate, 2023 - 2024

MATEMATİKSEL BİYOLOJİYE GİRİŞ, Undergraduate, 2020 - 2021

MATEMATİK 2, Undergraduate, 2019 - 2020  
MATEMATİK 1, Undergraduate, 2020 - 2021  
Bilgisayar Destekli Matematik Pro. I, Undergraduate, 2019 - 2020  
Analiz III, Undergraduate, 2019 - 2020  
Analiz IV, Undergraduate, 2018 - 2019  
ENGINEERING MATHEMATICS, Undergraduate, 2019 - 2020  
Çalışma Metodları I, Undergraduate, 2019 - 2020

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

- I. **Variational approach to the periodic problem for a nonlinear parabolic equation in Musielak–Orlicz spaces**  
Nowakowski A., Öztürk E.  
NONLINEAR ANALYSIS: REAL WORLD APPLICATIONS, vol.85, pp.1-10, 2025 (SCI-Expanded)
- II. **Nonhomogeneous singular problems with convection**  
Öztürk E., Papageorgiou N. S.  
JOURNAL OF FIXED POINT THEORY AND APPLICATIONS, vol.26, no.4, pp.1-14, 2024 (SCI-Expanded)
- III. **The limit case in a nonlocal  $p$ -Laplacian equation with dynamical boundary conditions**  
Öztürk E.  
REVISTA DE LA UNION MATEMATICA ARGENTINA, vol.67, no.2, pp.567-591, 2024 (SCI-Expanded)
- IV. **Global multiplicity of positive solutions for anisotropic  $(p, q)$ -Robin boundary value problems with an indefinite potential term**  
Öztürk E., Papageorgiou N. S.  
ELECTRONIC JOURNAL OF QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS, no.58, pp.1-25, 2024 (SCI-Expanded)
- V. **Global Multiplicity of Positive Solutions for Nonlinear Robin Problems with an Indefinite Potential Term**  
Öztürk E., Papageorgiou N. S.  
RESULTS IN MATHEMATICS, vol.79, no.3, pp.1-19, 2024 (SCI-Expanded)
- VI. **Well-Posedness and Global Attractors for Viscous Fractional Cahn-Hilliard Equations with Memory**  
ÖZTÜRK E., Shomberg J. L.  
FRACTAL AND FRACTIONAL, vol.6, no.9, 2022 (SCI-Expanded)
- VII. **Limit for the  $p$ -laplacian equation with dynamical boundary conditions**  
Öztürk E., Rossi J. D.  
Electronic Journal of Differential Equations, vol.01, no.Special Issue 01, pp.135-147, 2021 (SCI-Expanded)
- VIII. **Well-posedness and long time behavior for  $p$ -Laplacian equation with nonlinear boundary condition**  
Antontsev S., ÖZTÜRK E.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.472, no.2, pp.1604-1630, 2019 (SCI-Expanded)
- IX. **EXISTENCE AND NONEXISTENCE OF SOLUTIONS OF THE REACTION-DIFFUSION EQUATION WITH ROBIN BOUNDARY CONDITION**  
ÖZTÜRK E., KALLI K.  
UKRAINIAN MATHEMATICAL JOURNAL, vol.68, no.3, pp.475-484, 2016 (SCI-Expanded)
- X. **Solvability and long time behavior of nonlinear reaction-diffusion equations with Robin boundary condition**  
ÖZTÜRK E., Soltanov K. N.  
NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, vol.108, pp.1-13, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Existence and Behavior Results for a Nonlocal Nonlinear Parabolic Equation with Variable Exponent**  
SERT U., ÖZTÜRK E.  
KYUNGPOOK MATHEMATICAL JOURNAL, vol.60, no.1, pp.145-161, 2020 (ESCI)
- II. **ASYMPTOTIC BEHAVIOR OF THE NON-AUTONOMOUS REACTION-DIFFUSION EQUATION WITH ROBIN BOUNDARY CONDITION**  
ÖZTÜRK E.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.1, pp.422-440, 2019 (ESCI)

## Papers Published in Refereed Scientific Meetings

- I. **On Nonlocal p-Laplacian Equation with Dynamical Boundary Conditions**  
Öztürk E.  
7th International HYBRID Conference on Mathematical Advances and Applications May, 8-11, 2024 Yildiz Technical University, İstanbul, Turkey, 8 - 11 May 2024, pp.1
- II. **On the infinity Laplacian and the relations with an optimal mass transport problem**  
Öztürk E.  
İzmir Mathematical Days V, İzmir, Turkey, 27 September - 29 December 2023, pp.13
- III. **"The limit as  $p \rightarrow \infty$  for the p-Laplacian Equation with Dynamical Boundary Conditions"**  
Öztürk E., Rossi J. D.  
27th International Conference on Difference Equations and Applications, Paris, France, 18 - 22 July 2022, pp.167-168
- IV. **Well Posedness and asymptotic behavior for p-Laplacian Equation with Nonlinear Boundary Condition**  
Öztürk E.  
International Conference on Analysis and Its Applications-2021 (ICAA\_Nepal\_2021), Baglung, Nepal, 9 - 11 April 2021, pp.38-39
- V. **Well-posedness and Global Attractors for Viscous Fractional CahnHilliard Equations with Memory**  
Öztürk E.  
• Turkey-Italy Colloquium on Applied Analysis and Differential Equations, Ankara, Turkey, 10 - 11 July 2019, pp.3-4
- VI. **Existence and behavior results for a nonlocal nonlinear parabolic equation with variable exponent**  
Sert U., Öztürk E.  
7th International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Turkey, 20 - 24 June 2018, pp.143
- VII. **Otonom ve otonom olmayan durumda Reaksiyondifüzyon denkleminin Robin sınır koşulu altında uzun zaman dinamiği**  
ÖZTÜRK E.  
The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Orlando, United States Of America, 1 - 05 July 2016
- VIII. **Solvability and long time behavior of nonlinear Reaction Diffusion equations with Robin Boundary Condition**  
ÖZTÜRK E.  
The 10th AIMS Conference on Dynamical Systems, Differential Equations and Applications, Madrid, Spain, 7 - 14 July 2014
- IX. **Third type Boundary value problem for a Yamabe type equation**  
ÖZTÜRK E.  
The 5th International Conference "Mathematical Analysis, Differential Equations and Their Applications", 15 - 20 September 2010
- X. **On Some Yamabe Type Equations**  
ÖZTÜRK E., Soltanov K. N.

## Supported Projects

ÖZTÜRK E., Project Supported by Higher Education Institutions, Lineer olmayan parabolik p-Laplacian denklemleri üzerine, 2017 - 2018

ÖZTÜRK E., Project Supported by Higher Education Institutions, Otonom ve otonom olmayan durumda Reaksiyondifüzyon denkleminin Robin sınır koşulu altında uzun zaman dinamiği, 2016 - 2016

ÖZTÜRK E., Project Supported by Higher Education Institutions, Lineer olmayan Reaksiyon-Difüzyon denkleminin Robin sınır koşulu altında çözülebilirliği ve uzun zaman davranışı, 2015 - 2016

ÖZTÜRK E., Project Supported by Higher Education Institutions, ZAMANA BAĞLI REAKSİYON-DİFÜZYON DENKLEMİNİN ROBIN SINIR KOŞULU ALTINDA ASİMPOTİK DAVRANIŞI, 2015 - 2016

## Metrics

Publication: 23

Citation (WoS): 6

Citation (Scopus): 2

H-Index (WoS): 2

H-Index (Scopus): 1

## Non Academic Experience

Oxford Üniversitesi, Ziyaretçi Araştırmacı