

## Assoc. Prof. FATMA GAMZE DÜZGÜN

### Personal Information

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### Education Information

Post Doctorate, Universita Degli Studi Di Firenze, Mühendislik Fak., Informasyon, Italy 2014 - 2015

Doctorate, Hacettepe Üniversitesi, Fen Fak., Matematik, Turkey 2008 - 2014

Post Graduate, Hacettepe Üniversitesi, Fen Fak., Matematik, Turkey 2005 - 2008

Under Graduate, Hacettepe Üniversitesi, Fen Fak., Matematik, Turkey 2001 - 2005

### Foreign Languages

Italian, C1 Advanced

French, B1 Intermediate

English, C1 Advanced

### Dissertations

Doctorate, Investigation of a class of nonlinear diffusion equations, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2014

Post Graduate, Emden-Fowler 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

Research Assistant, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2005 - Continues

### Courses

Matematik 1, Under Graduate, 2017 - 2018

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Anisotropic Sobolev embeddings and the speed of propagation for parabolic equations**  
DÜZGÜN F. G. , Mosconi S., Vespri V.

- JOURNAL OF EVOLUTION EQUATIONS, vol.19, pp.845-882, 2019 (Journal Indexed in SCI)
- II. **Three nontrivial solutions for nonlinear fractional Laplacian equations**  
 DÜZGÜN F. G. , IANNIZZOTTO A.  
 ADVANCES IN NONLINEAR ANALYSIS, vol.7, pp.211-226, 2018 (Journal Indexed in SCI)
- III. **A game theory-inspired channel allocation policy for multi-radio pervasive ad hoc communications**  
 CHITI F. G. , FANTACCI R., Duezguen F. G. , Vespri V.  
 WIRELESS COMMUNICATIONS & MOBILE COMPUTING, vol.16, pp.1826-1836, 2016 (Journal Indexed in SCI)
- IV. **1-DIMENSIONAL HARNACK ESTIMATES**  
 DÜZGÜN F. G. , GIANAZZA U., Vespri V.  
 DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES S, vol.9, pp.675-685, 2016 (Journal Indexed in SCI)
- V. **Interior Harnack Estimates: The State-of-the-Art for Quasilinear Singular Parabolic Equations**  
 Duezguen F. G. , FORNARO S., Vespri V.  
 MILAN JOURNAL OF MATHEMATICS, vol.83, pp.371-395, 2015 (Journal Indexed in SCI)
- VI. **Existence, uniqueness and behaviour of solutions for a nonlinear diffusion equation with third type boundary value condition**  
 DÜZGÜN F. G. , Soltanov K.  
 RENDICONTI LINCEI-MATEMATICA E APPLICAZIONI, vol.26, pp.445-463, 2015 (Journal Indexed in SCI)
- VII. **CONSERVATION OF THE MASS FOR SOLUTIONS TO A CLASS OF SINGULAR PARABOLIC EQUATIONS**  
 FINO A. Z. , DÜZGÜN F. G. , Vespri V.  
 KODAI MATHEMATICAL JOURNAL, vol.37, pp.519-531, 2014 (Journal Indexed in SCI)
- VIII. **SOME MIXED PROBLEMS FOR SEMILINEAR PARABOLIC TYPE EQUATION**  
 DÜZGÜN F. G. , SOLTANOV K. N.  
 JOURNAL OF APPLIED ANALYSIS AND COMPUTATION, vol.4, pp.271-281, 2014 (Journal Indexed in SCI)
- IX. **An alternative approach to the Holder continuity of solutions to some elliptic equations**  
 DÜZGÜN F. G. , Marcellini P., Vespri V.  
 NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, vol.94, pp.133-141, 2014 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Space Expansion for a Solution of an Anisotropic p-Laplacian Equation by Using a Parabolic Approach**  
 DÜZGÜN F. G. , Vespri V., Marcellini P.  
 Riv. Mat. Univ. Parma, vol.5, no.1, pp.93-111, 2014 (International Refereed University Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **On some Emden-Fowler type Equations**  
 DÜZGÜN F. G. , SOLTANOV K. N.  
 International Conference on Numerical Analysis and Applied Mathematics, Rethymno, Greece, 18 - 22 September 2009, vol.1168, pp.256-259

### Supported Projects

- DÜZGÜN F. G. , VESPRİ V., Project Supported by Higher Education Institutions, Anisotropik Operatörlerin Daha Geniş Bir Sınıfı için Düzenlilik/Süreklilik Sonuçları (Regularity Results for a Larger Class of Anisotropic Operators), 2017 - 2018
- DÜZGÜN F. G. , Project Supported by Higher Education Institutions, Doğrusal olmayan kesirli Laplace problemi için sıfırdan farklı üç çözümün varlığı, 2016 - 2016
- DÜZGÜN F. G. , Project Supported by Higher Education Institutions, Bazı eliptik denklemlerin çözümlerinin Hölder

sürekliik özelliğine bir alternatif yaklaşım, 2015 - 2016

DÜZGÜN F. G. , Project Supported by Higher Education Institutions, Üçüncü sınıf sınır değerli doğrusal olmayan difüzyon tipli denklemin çözümünün varlığı ve davranışı üzerine, 2015 - 2016

## Citations

Total Citations (WOS):26

h-index (WOS):2