

## Asst. Prof. Ayda Şafak Ağar Özbek

### Personal Information

**Office Phone:** [+90 212 285 3764](tel:+902122853764)

**Email:** sagar@itu.edu.tr

**Web:** <https://avesis.itu.edu.tr/sagar>

### International Researcher IDs

ORCID: 0000-0002-1098-9057

ScopusID: 53983705700

Yoksis Researcher ID: 108067

### Education Information

Doctorate, Technische Universiteit Delft, Civil Engineering And Geosciences, Netherlands 2006 - 2016

Masters (Non-Thesis), Istanbul Technical University, İşletme Fakültesi, Turkey 2002 - 2003

Postgraduate, Bogazici University, Fen Bilimleri Enstitüsü/İnşaat Mühendisliği, Yapı Mühendisliği, Turkey 2000 - 2003

Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1995 - 1999

### Certificates, Courses and Trainings

Education Management and Planning, Multiscale Modelling, Delft Teknik Üniversitesi/İnşaat Mühendisliği, 2008

Education Management and Planning, Concrete Microscopy, Delft Teknik Üniversitesi/İnşaat Mühendisliği, 2006

### Research Areas

Technical Sciences, Civil Engineering, Building materials, Concrete Technology

### Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2023 - Continues

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

#### I. Impact behavior of model porous concretes

Ağar Özbek A.Ş., Weerheijm J., Van Breugel K.

MATERIALS AND STRUCTURES, vol.52, 2019 (SCI-Expanded)

#### II. Mesoscopic modeling of the impact behavior and fragmentation of porous concrete

Ağar Özbek A.Ş., Pedersen R. R., Weerheijm J., Van Breugel K.

CEMENT & CONCRETE COMPOSITES, vol.102, pp.116-133, 2019 (SCI-Expanded)

#### III. High speed photography technique for measuring impact strength of porous concrete

Ağar Özbek A.Ş., Weerheijm J., van Breugel K.

CONSTRUCTION AND BUILDING MATERIALS, vol.186, pp.1092-1104, 2018 (SCI-Expanded)

#### IV. Mesoscopic analysis of the behavior of porous concrete under impact loading

- Ağar Özbek A.Ş., Pedersen R. R., Weerheim J.  
Teknik Dergi, vol.28, pp.7823-7844, 2017 (SCI-Expanded)
- V. **Dynamic behavior of porous concretes under drop weight impact testing**  
Ozbek A.Ş., Weerheim J., Schlangen E., van Breugel K.  
CEMENT & CONCRETE COMPOSITES, vol.39, pp.1-11, 2013 (SCI-Expanded)
- VI. **Investigating porous concrete with improved strength: Testing at different scales**  
Agar-Ozbek A.Ş., Weerheim J., Schlangen E., van Breugel K.  
CONSTRUCTION AND BUILDING MATERIALS, vol.41, pp.480-490, 2013 (SCI-Expanded)
- VII. **Drop Weight Impact Strength Measurement Method for Porous Concrete Using Laser Doppler Velocimetry**  
Ozbek A.Ş., Weerheim J., Schlangen E., van Breugel K.  
JOURNAL OF MATERIALS IN CIVIL ENGINEERING, vol.24, no.10, pp.1328-1336, 2012 (SCI-Expanded)
- VIII. **Interpretation of aggregate volume fraction effects on fracture behavior of concrete**  
AKÇAY ALDANMAZ B., Agar-Ozbek A. S., Bayramov F., Atahan H. N., Sengul C., Tasdemir M. A.  
CONSTRUCTION AND BUILDING MATERIALS, vol.28, no.1, pp.437-443, 2012 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Dairesel Agregalı Model Boşluklu Betonların Dinamik Davranışının Sonlu Eleman Yöntemi ile Analizi**  
AĞAR ÖZBEK A.Ş., Weerheim J., VAN BREUGEL K.  
Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.22, no.3, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Inclusion Based Modeling of Concrete with Various Aggregate Volume Fractions**  
TAŞDEMİR M. A., Akyuz S., BAYRAMOV F., AĞAR ÖZBEK A.Ş.  
in: Continuum Models and Discrete Systems, Bergman David J., Inan Esin, Editor, Springer, pp.253-258, 2004

## Metrics

Publication: 14

Citation (WoS): 68

Citation (Scopus): 89

H-Index (WoS): 4

H-Index (Scopus): 4