Asst. Prof. Ayda Şafak Ağar Özbek

Personal Information

Office Phone: +90 212 285 3764
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 Cıvıl Engıneerıng, 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., Weerheijm 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., Weerheijm J., Schlangen E., van Brengel 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., Weerheijm 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., Weerheijm 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., Bayramoy 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., Weerheijm 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

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Citation (WoS): 68
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