

## Res. Asst. PhD Abdullah Huzeyfe AKCA

### Personal Information

**Email:** aakca@yildiz.edu.tr

**Other Email:** abduallah.akca@boun.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/aakca>

### Education Information

Post Doctorate, Columbia University, The Fu Foundation School Of Engineering And Applied Science, The Department of Civil Engineering and Engineering Mechanics, United States Of America 2019 - 2020

Doctorate, Boğaziçi Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2012 - 2017

Post Graduate, Boğaziçi Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2009 - 2012

Under Graduate, Yıldız Teknik Üniversitesi, Faculty of Construction, İnşaat Mühendisliği, Turkey 2007 - 2009

### Academic Titles / Tasks

Research Assistant PhD, Yıldız Technical University, Faculty of Construction, Civil Engineering Department, 2018 - Continues

Research Assistant, Bogazici University, Faculty Of Engineering, Department Of Civil Engineering, 2010 - 2018

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

- I. **Influence of aqueous carbonate species on hydration and carbonation of reactive MgO cement**  
Ma S., Akca A. H. , Esposito D., Kawashima S.  
JOURNAL OF CO2 UTILIZATION, vol.41, pp.1-10, 2020 (Journal Indexed in SCI Expanded)
- II. **Post-fire mechanical behavior and recovery of structural reinforced concrete beams**  
Akca A. H. , Özyurt N.  
Construction And Building Materials, vol.253, no.119188, pp.1-10, 2020 (Journal Indexed in SCI Expanded)
- III. **Fracture response of fiber-reinforced sodium carbonate activated slag mortars**  
Aktürk B., Akca A. H. , Kızılkant A. B.  
Construction And Building Materials, vol.241, no.118128, pp.1-13, 2020 (Journal Indexed in SCI)
- IV. **Deterioration and recovery of FRC after high temperature exposure**  
Akca A. H. , Ozyurt N.  
CEMENT & CONCRETE COMPOSITES, vol.93, pp.260-273, 2018 (Journal Indexed in SCI)
- V. **Effects of re-curing on microstructure of concrete after high temperature exposure**  
Akca A. H. , Ozyurt N.  
CONSTRUCTION AND BUILDING MATERIALS, vol.168, pp.431-441, 2018 (Journal Indexed in SCI)
- VI. **Effects of re-curing on residual mechanical properties of concrete after high temperature exposure**  
Akca A. H. , Ozyurt N.  
CONSTRUCTION AND BUILDING MATERIALS, vol.159, pp.540-552, 2018 (Journal Indexed in SCI)
- VII. **Mechanical properties and fracture behavior of basalt and glass fiber reinforced concrete: An experimental study**  
KIZILKANAT A. B. , KABAY N., Akyuncu V., Chowdhury S., Akca A. H.  
CONSTRUCTION AND BUILDING MATERIALS, vol.100, pp.218-224, 2015 (Journal Indexed in SCI)

## VIII. High performance concrete under elevated temperatures

Akca A. H. , Zihnioglu N. O.

CONSTRUCTION AND BUILDING MATERIALS, vol.44, pp.317-328, 2013 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Mineral Katkılı Lifli Betonlarda Yüksek Sıcaklık Etkisiyle Oluşan Yüzey Çatlakları ve Dayanım Kayıpları**  
Akca A. H. , Özyurt N.  
Hazır Beton Dergisi, vol.154, pp.65-71, 2019 (National Conference Book)
- II. **Effects of Post-fire curing on the properties of HPCC**  
Özyurt Zihnioglu N., Akca A. H.  
Cementürk, vol.30, pp.56-63, 2013 (National Non-Refereed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Image Analysis on Disintegrated Concrete at the Post Heating Stage**  
AKCA A. H. , ÖZYURT ZİHNİOĞLU N.  
3rd R.N. Raikar Memorial International Conference and Gettu-Kodur International Symposium on Advances in Science and Technology of Concrete, 14 - 15 December 2018
- II. **Recovery of Reinforced Concrete Beams after ISO-834 Fire Exposure**  
AKCA A. H. , ÖZYURT ZİHNİOĞLU N.  
13th international congress on advances in civil engineering, İzmir, Turkey, 12 September 2018, pp.500-508
- III. **Mineral Katkılı Lifli Betonlarda Yüksek Sıcaklık Etkisiyle Oluşan Yüzey Çatlakları ve Dayanım Kayıpları**  
AKCA A. H. , ÖZYURT ZİHNİOĞLU N.  
Beton 2017 Hazır Beton Kongresi, Turkey, 13 - 14 April 2017
- IV. **Changes in Microstructure and Recovery of Concrete Incorporating Granulated Blast Furnace Slag after High Temperature Exposure**  
AKCA A. H. , ÖZYURT ZİHNİOĞLU N.  
12th International Congress on Advances in Civil Engineering, İstanbul, Turkey, 21 - 23 September 2016
- V. **Mechanical Behavior and Recovery of FRC after High Temperature Exposure**  
AKCA A. H. , ÖZYURT ZİHNİOĞLU N.  
The 8th International Conference on Concrete under Severe Conditions Environment and Loading, Lecco, Italy, 12 - 14 September 2016, vol.711
- VI. **Effects of elevated temperatures on the microstructure and residual strength of HPSCC**  
AKCA A. H. , ÖZYURT ZİHNİOĞLU N.  
5th North American Conference on the Design and Use of Self-Consolidating Concrete, Chicago, United States Of America, 12 - 14 May 2013
- VII. **Donatı Korozyonu İçin Verilen Sınır Değerlerin Yalın ve Çelik Lifli Betonlarda Çatlak Oluşumu Açısından Değerlendirilmesi**  
NİŞ A., PEHLİVAN A. O. , AKCA A. H. , ÖZYURT ZİHNİOĞLU N., SÖYLEV T. A. , ÖZTURAN T.  
8th National Congress on Concrete, İzmir, Turkey, 5 - 07 October 2011

## Supported Projects

Akca A. H. , Özyurt Zihnioglu N., Project Supported by Higher Education Institutions, Yüksek sıcaklıklara maruz betonlarda kullanılan malzeme ve uygulanan yangın sonrası kürün iyileşme süreci üzerindeki etkilerinin incelenmesi,

2014 - 2016

Akca A. H. , Özyurt Zihniođlu N., Project Supported by Higher Education Institutions, Yangın dayanımı arttırılmış yüksek dayanımlı çimento esaslı malzeme tasarımı, 2011 - 2011

## **Scientific Refereeing**

CEMENT AND CONCRETE RESEARCH, SCI Journal, March 2019

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, January 2019

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, December 2018

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, October 2018

CONSTRUCTION AND BUILDING MATERIALS, Journal Indexed in SCI-E, February 2018

## **Citations**

Total Citations (WOS):194

h-index (WOS):5

## **Scholarships**

2219 Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2018 - Continues

2211-E Doğrudan Yurt İçi Doktora Burs Programı, TÜBİTAK, 2012 - 2017

2228-A Son Sınıf Lisans Öğrencileri için Lisansüstü Burs Programı, TÜBİTAK, 2009 - 2011