

Res. Asst.  
Tarık ÖMÜR



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### International Researcher IDs

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Publons / Web Of Science

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ScopusID: 57830266800

Yoksis Researcher ID: 331565

### Education Information

Doctorate, Yıldız Technical  
University, Faculty Of Civil  
Engineering, Civil Engineering  
Department, Turkey 2022 -  
Continues

Postgraduate, Yıldız Technical  
University, Faculty Of Civil  
Engineering, Civil Engineering  
Department, Turkey 2021 - 2022

Postgraduate, Istanbul Technical  
University, Lisansüstü Eğitim  
Enstitüsü, İnşaat Mühendisliği,  
Turkey 2020 - 2021

Undergraduate, Yıldız Technical  
University, Faculty Of Civil  
Engineering, Civil Engineering  
Department, Turkey 2015 - 2020

### Dissertations

Postgraduate, Alkali aktivatör ve kum oranının alkalilerle aktifleştirilmiş cürufun özelliklerine etkisi, Yıldız Technical University,  
Faculty Of Civil Engineering, Civil Engineering Department, 2022

### Research Areas

Civil Engineering, Structure, Building materials, Concrete Technology, Building Components and Materials, Composite materials, Applications of Insulation Materials

## Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 2020 - Continues

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

- I. **LC3 cementitious binder incorporating microencapsulated phase change materials for self-defrosting traffic surfaces**  
KABAY N., Miyan N., ÖMÜR T., Nehdi M. L.  
Construction and Building Materials, vol.450, 2024 (SCI-Expanded)
- II. **Utilization of eggshell powder in one-part alkali-activated metakaolin based binder**  
Omur T., Miyan N., Kabay N.  
CONSTRUCTION AND BUILDING MATERIALS, vol.445, no.137981, pp.1-20, 2024 (SCI-Expanded)
- III. **Innovative use of hazelnut shell ash as an alkali activator: A comparative analysis with commercial activators**  
ÖMÜR T., Kanat D., KABAY N.  
Journal of Building Engineering, vol.90, 2024 (SCI-Expanded)
- IV. **Characterization of washing aggregate sludge waste as a novel supplementary cementitious material: Experimental study and life cycle assessment**  
Miyan N., ÖMÜR T., Bilici S., Özkan H., KABAY N.  
Journal of Environmental Management, vol.366, 2024 (SCI-Expanded)
- V. **Recycled waste concrete and metakaolin based alkali-activated paste: Characterization, optimization, and life cycle assessment**  
Miyan N., Omur T., Amed B., Özkan H., Aydın R., Kabay N.  
Construction and Building Materials, vol.416, 2024 (SCI-Expanded)
- VI. **Evaluation of the Effects of Untreated and Treated Sugarcane Bagasse Fibers and RHA on the Physicomechanical Characteristics of Cementitious Composites**  
Datchossa A. T., Doko V. K., KABAY N., Olodo E. E. T., ÖMÜR T.  
Iranian Journal of Science and Technology - Transactions of Civil Engineering, vol.48, no.1, pp.25-40, 2024 (SCI-Expanded)
- VII. **The potential usage of waste ferrochrome slag in alkali-activated mixes**  
Miyan N., Ömür T., Kabay N., Birol B.  
JOURNAL OF BUILDING ENGINEERING, vol.75, no.15, pp.1-19, 2023 (SCI-Expanded)
- VIII. **The Influence of Ground and Unground Rice Husk Ash on The Physico-mechanical and Microstructural Properties of Cement Mortars**  
Datchossa A. T., Doko V. K., Kabay N., Olodo E. E. T., Ömür T.  
Iranian Journal of Science and Technology - Transactions of Civil Engineering, vol.47, no.4, pp.2189-2202, 2023 (SCI-Expanded)
- IX. **Effect of microfibers or SRA on the shrinkage and mechanical properties of alkali activated slag/fly ash-based mortars incorporating recycled fine aggregate**  
Abolfathi M., Omur T., Kabay N.  
CONSTRUCTION AND BUILDING MATERIALS, vol.373, pp.130883-130897, 2023 (SCI-Expanded)
- X. **Utilization and optimization of unweathered and weathered basic oxygen furnace slag aggregates in cement based mortar**  
ÖMÜR T., Miyan N., KABAY N., Özkan H.  
Journal of Building Engineering, vol.64, 2023 (SCI-Expanded)
- XI. **Experimental and Statistical Study on the Properties of Basic Oxygen Furnace Slag and Ground Granulated Blast Furnace Slag Based Alkali-Activated Mortar**  
Özkan H., Miyan N., Kabay N., Ömür T.

MATERIALS, vol.16, no.6, pp.1-23, 2023 (SCI-Expanded)

**XII. Characterization of ferrochrome ash and blast furnace slag based alkali-activated paste and mortar**

Omur T., Miyan N., Kabay N., Birol B., Oktay D.

CONSTRUCTION AND BUILDING MATERIALS, vol.363, 2023 (SCI-Expanded)

**XIII. Effect of washing aggregate sludge waste on the properties of alkali-activated blast furnace slag**

Bilici S., KABAY N., Miyan N., ÖMÜR T., Ozkan H.

JOURNAL OF BUILDING ENGINEERING, vol.63, 2023 (SCI-Expanded)

**XIV. The effect of alkaline activators and sand ratio on the physico-mechanical properties of blast furnace slag based mortars**

ÖMÜR T., KABAY N., Miyan N., Ozkan H., Ozkan C.

JOURNAL OF BUILDING ENGINEERING, vol.58, 2022 (SCI-Expanded)

## Articles Published in Other Journals

**I. The influence of curing conditions on physicomachanical properties of alkali-activated slag/fly ash based mortars**

Ömür T., Boylu S., Cafaloma T., Miyan N., Kabay N.

Recent Advances in Science and Engineering, no.2, pp.33-41, 2023 (Peer-Reviewed Journal)

**II. Pumice as Precursor in Geopolymer Paste and Mortar**

Kabay N., Mert M., Miyan N., Ömür T.

Journal of Civil Engineering and Construction, vol.10, no.4, pp.225-236, 2021 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

**I. THE EFFECT OF PCM-INCORPORATED 3D-PRINTED ARTIFICIAL AGGREGATES ON THE PROPERTIES OF ALKALI-ACTIVATED SLAG CONCRETES**

Akpunar A. K., Kabay N., Ömür T.

9. ULUSLARARASI MÜHENDİSLİK VE TEKNOLOJİ YÖNETİMİ KONGRESİ, İstanbul, Turkey, 29 April - 01 May 2023, pp.54-64

**II. COLD BONDED AGGREGATE MANUFACTURED USING WASHING AGGREGATE SLUDGE AND ITS EFFECTS ON CONCRETE PROPERTIES**

Özkan H., Kabay N., Miyan N., Ömür T.

Jornadas Portuguesas de Engenharia de Estruturas (JPÉE - 2022), Lisbon, Portugal, 9 - 11 November 2022, pp.100-108

**III. THE INFLUENCE OF ALKALINE ACTIVATOR ON THE FRESH STATE PROPERTIES OF ALKALI-ACTIVATED SLAG PASTES**

Ömür T., Kabay N.

7 INTERNATIONAL CONGRESS ON ENGINEERING AND TECHNOLOGY MANAGEMENT, İstanbul, Turkey, 16 - 18 April 2022, pp.504-511

**IV. Evaluation of 3D Printability of Concrete Incorporating Recycled Aggregate Powder and PCM**

Akca A. H., Dinç Şengönül B., Ömür T., Üstündağ C. B., Kabay N., Çakır Ö., Yüzer N.

14th International Congress on Advances in Civil Engineering (ACE2020-21), İstanbul, Turkey, 6 - 08 September 2021, pp.282-289

**V. The Effect of Alkaline Solutions on the Properties of Slag Geopolymer Mortar**

Kabay N., Ömür T., Miyan N., Özkan H.

14th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING, İstanbul, Turkey, 6 - 08 September 2021, pp.217-222

## Supported Projects

KABAY N., KANAT D., BİROL B., ÖMÜR T., AYDIN O., Project Supported by Higher Education Institutions, Atık Metal Tozlarının Hafif Geopolimer Kompozit Üretiminde Köpük Ajanı Olarak Kullanılması, 2024 - Continues

KABAY N., ÖMÜR T., Project Supported by Higher Education Institutions, Erken dayanımı yüksek jeopolimer bağlayıcı geliştirilmesi, 2024 - Continues

Ömür T., Kanat D., TÜBİTAK Project, Yüksek Fırın Cürufunun Fındık Kabuğu Külü ile Aktivasyonu, 2023 - 2023

## **Scientific Research / Working Group Memberships**

Construction Materials Research Group, Yıldız Technical University, Türkiye, <https://avesis.yildiz.edu.tr/arastirma-grubu/cmrg>, 2021 - Continues

## **Metrics**

Publication: 21

Citation (WoS): 95

Citation (Scopus): 95

H-Index (WoS): 6

H-Index (Scopus): 6

## **Awards**

Ömür T., Fakülte 1.lık ödülü, Yıldız Teknik Üniversitesi, July 2020