

## **Personal Information**

**Email:** mashhadani@gelisim.edu.tr

**Web:** <https://avesis.gelisim.edu.tr/mashhadani>

## **International Researcher IDs**

ORCID: 0000-0002-1646-5879

ScopusID: 57200720472

Yoksis Researcher ID: 387757

## **Education Information**

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Civil Engineering , Turkey 2014 - 2018

Postgraduate, Jawaharlal Nehru University, Faculty of Engineering, Civil Engineering, India 2011 - 2013

Undergraduate, University of Mustansiriyah, Engineering College, Civil Engineering, Iraq 2005 - 2009

## **Foreign Languages**

English, C2 Mastery

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

- I. **Effect of ceramic waste powder content and sodium hydroxide molarity on the residual mechanical strength of alkali-activated mortars**  
Erol F., MEHMETOĞLU M., AYGÖRMEZ Y., NİŞ A.  
Materials Chemistry and Physics, vol.309, 2023 (SCI-Expanded)
- II. **Mechanical and durability properties of steel, polypropylene and polyamide fiber reinforced slag-based alkali-activated concrete**  
Kuranlı Ö. F., UYSAL M., Abbas M. T., ÇOŞGUN T., Niş A., AYGÖRMEZ Y., CANPOLAT O., Al-mashhadani M.  
European Journal of Environmental and Civil Engineering, vol.27, no.1, pp.114-139, 2023 (SCI-Expanded)
- III. **Combined effect of using steel fibers and demolition waste aggregates on the performance of fly ash/slag based geopolymer concrete**  
Lakew A. M., CANPOLAT O., MEHMETOĞLU M., UYSAL M., NİŞ A., AYGÖRMEZ Y., Bayati M.  
European Journal of Environmental and Civil Engineering, vol.27, no.15, pp.4251-4278, 2023 (SCI-Expanded)
- IV. **Mechanical and durability of geopolymer concrete containing fibers and recycled aggregate**  
Mohamed A. Y., CANPOLAT O., Al-Mashhadani M.  
Computers and Concrete, vol.30, no.6, pp.421-432, 2022 (SCI-Expanded)
- V. **Investigation of mechanical and durability properties of brick powder-added White Cement composites with three different fibers**  
Alcharchafche M. A. S., Al-mashhadani M., AYGÖRMEZ Y.  
Construction and Building Materials, vol.347, 2022 (SCI-Expanded)
- VI. **Evaluation of slag/fly ash based geopolymer concrete with steel, polypropylene and polyamide fibers**

- Kuranlı Ö. F., UYSAL M., Abbas M. T., ÇOŞGUN T., Niş A., AYGÖRMEZ Y., CANPOLAT O., Al-mashhadani M.  
Construction and Building Materials, vol.325, 2022 (SCI-Expanded)
- VII. **Effect of various NaOH molarities and various filling materials on the behavior of fly ash based geopolymer composites**  
Al-mashhadani M., CANPOLAT O.  
Construction and Building Materials, vol.262, 2020 (SCI-Expanded)
- VIII. **Assessment of geopolymer composites durability at one year age**  
AYGÖRMEZ Y., CANPOLAT O., Al-mashhadani M.  
Journal of Building Engineering, vol.32, 2020 (SCI-Expanded)
- IX. **Evaluation of the 12–24 mm basalt fibers and boron waste on reinforced metakaolin-based geopolymer**  
Ali N., CANPOLAT O., AYGÖRMEZ Y., Al-Mashhadani M.  
Construction and Building Materials, vol.251, 2020 (SCI-Expanded)
- X. **Influence of wetting-drying curing system on the performance of fiber reinforced metakaolin-based geopolymer composites**  
Arslan A. A., Uysal M., Yılmaz A., Al-mashhadani M., CANPOLAT O., Şahin F., AYGÖRMEZ Y.  
Construction and Building Materials, vol.225, pp.909-926, 2019 (SCI-Expanded)
- XI. **High-temperature behavior and mechanical characteristics of boron waste additive metakaolin based geopolymer composites reinforced with synthetic fibers**  
Celik A., Yılmaz K., CANPOLAT O., MEHMETOĞLU M., AYGÖRMEZ Y., Uysal M.  
Construction and Building Materials, vol.187, pp.1190-1203, 2018 (SCI-Expanded)
- XII. **Effect of using colemanite waste and silica fume as partial replacement on the performance of metakaolin-based geopolymer mortars**  
Uysal M., MEHMETOĞLU M., AYGÖRMEZ Y., CANPOLAT O.  
Construction and Building Materials, vol.176, pp.271-282, 2018 (SCI-Expanded)
- XIII. **Mechanical and microstructural characterization of fiber reinforced fly ash based geopolymer composites**  
MEHMETOĞLU M., CANPOLAT O., AYGÖRMEZ Y., Uysal M., ERDEM S.  
Construction and Building Materials, vol.167, pp.505-513, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Strength Investigation of Slag-Based Geopolymer Composites Incorporating Different Amounts of Colemanite Waste and Silica Fume Under Different Exposure Conditions**  
MEHMETOĞLU M.  
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.38, no.3, pp.841-849, 2023 (Peer-Reviewed Journal)
- II. **Strength and abrasion performance of recycled aggregate based geopolymer concrete**  
LAKEW A. M., MEHMETOĞLU M., CANPOLAT O.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.40, pp.155-161, 2022 (ESCI)
- III. **Assessment of strength and abrasion resistance of elasto-plastic fiber reinforced concrete using geopolymer based recycled aggregates**  
Mohamed A., CANPOLAT O., Al-Mashhadani M.  
Environmental Research and Technology, vol.4, no.3, pp.244-248, 2021 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Mechanical performance of fly ash-GGBS elasto-plastic fiber reinforced geopolymer concrete containing recycled aggregates**  
Mohamed A. Y., CANPOLAT O., MEHMETOĞLU M.

6th International Conference on Green Design and Manufacture 2020, 23 July 2020

- II. **Steel fiber reinforced recycled aggregate geopolymer concrete: A mechanical assessment**  
LAKEW A. M., CANPOLAT O., MEHMETOĞLU M.

6th International Conference on Green Design and Manufacture 2020, 23 July 2020

- III. **Cement-Rice Husk Ash Mortars Fabricated with Different Superplasticizers: Investigation on Some Fresh State and Strength Properties**  
MEHMETOĞLU M.

EJONS 14th INTERNATIONAL CONFERENCE ON MATHEMATIC, ENGINEERING AND NATURAL SCIENCES, 6 - 07 July 2022

- IV. **Strength Properties of Geopolymer Mortar Containing Binary and Ternary Blends of Metakaolin and Manufacturing By-Products**

Awad A., ÇUBUKÇUOĞLU B., AKÇAOĞLU T., CANPOLAT O., MEHMETOĞLU M.

4. ASIA PACIFIC INTERNATIONAL CONGRESS ON CONTEMPORARY STUDIES, 12 - 13 December 2020

- V. **Bentonitin Geopolimer Üretiminde Kullanılabilirliğinin Araştırılması**

Kabirova A., UYSAL M., CANPOLAT O., ŞAHİN F., AYGÖRMEZ Y., MEHMETOĞLU M.

5. Uluslararası Öğrenci Sempozyumu, 6 - 08 December 2019

- VI. **Using different types of aggregates including waste concrete in the production of geopolymer mortars**

CANPOLAT O., ŞAHİN F., UYSAL M., MEHMETOĞLU M., AYGÖRMEZ Y.

Fifth International Conference on Sustainable Construction Materials and Technologies, 14 - 17 July 2019

- VII. **Fly ash based geopolymer composites partially replaced with silica fume: an experimental investigation**

MEHMETOĞLU M., CANPOLAT O., AYGÖRMEZ Y., UYSAL M., ŞAHİN F.

Fifth International Conference on Sustainable Construction Materials and Technologies, 14 - 17 July 2019

- VIII. **Sulfate Resistance of Sustainable Geopolymer Mortars**

AYGÖRMEZ Y., CANPOLAT O., MEHMETOĞLU M., UYSAL M., ŞAHİN F.

Fifth International Conference on Sustainable Construction Materials and Technologies, 14 - 17 July 2019

- IX. **Experimental Investigation of Engineering Properties of Metakaolin Based Geopolymer Mortars with Different Filling Materials**

Kabirova A., UYSAL M., CANPOLAT O., ŞAHİN F., AYGÖRMEZ Y., MEHMETOĞLU M., PUL S.

4th Eurasian Conference on Civil and Environmental Engineering (ECOCEE), İstanbul, Türkiye, 17 June 2019

- X. **Mechanical and Durability Properties of Fly Ash Based Geopolymers Mortars with Different Filling Materials**

TAMMAM Y. M., CHAKKOR O., UYSAL M., CANPOLAT O., AYGÖRMEZ Y., MEHMETOĞLU M., ŞAHİN F.

4th Eurasian Conference on Civil and Environmental Engineering (ECOCEE), İstanbul, Türkiye, 17 - 18 June 2019

- XI. **Strength, physical, and long-term behavior of fly ash based geopolymers: An overview**  
MEHMETOĞLU M.

4th International Conference on Green Design and Manufacture 2018, 29 - 30 April 2018

- XII. **Compressive and flexural strength behaviors of metakaolin based geopolymer mortars manufactured by different procedures**

AYGÖRMEZ Y., CANPOLAT O., MEHMETOĞLU M., UYSAL M.

4th International Conference on Green Design and Manufacture 2018, 29 - 30 April 2018

- XIII. **Experimental notes on the factors affecting the strength behavior of fly ash based geopolymer composites**

CANPOLAT O., AYGÖRMEZ Y., MEHMETOĞLU M., UYSAL M.

4th International Conference on Green Design and Manufacture 2018, 29 - 30 April 2018

## Supported Projects

Niş A., Mehmetoğlu M., Project Supported by Higher Education Institutions, Atık Malzemelerle Üretilen Farklı Geopolimer

