

Asst. Prof. METİN MEHMETOĞLU

Personal Information

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey 2014 - 2018

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

Undergraduate, University of Mustansiriyyah, Engineering Faculty , Civil Engineering , Iraq 2005 - 2009

Foreign Languages

English, C2 Mastery

French, B1 Intermediate

Arabic, C2 Mastery

Research Areas

Civil Engineering, Building materials, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Istanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, CIVIL ENGINEERING (ENGLISH), 2019 - Continues

Academic and Administrative Experience

Vice Dean, Istanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, 2022 - 2022

Deputy Head of Department, Istanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, CIVIL ENGINEERING, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- 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., Yilmaz 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., Yilmaz 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. **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
- II. **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
- 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. **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
- VII. **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
- 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. **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
- X. **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

XI. 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

XII. 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

XIII. 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

Supported Projects

Niş A., Mehmetoğlu M., Project Supported by Higher Education Institutions, Atık Malzemelerle Üretilen Farklı Geopolimer Harç Numunelerinin Yüksek Sıcaklık Etkisi Altında Durabilite Performansının İncelenmesi, 2021 - 2022