

Mahmoud M S ZIADA

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Education Information:

-Istanbul University-Cerrahpasa, Istanbul, Turkey, 2019-2022. PhD in civil engineering. Title: "Autonomous and Autogenous Healing by Bacteria of Metakaolin Based Geopolymer Exposed to High Temperature Effects".

-Ondokuz Mayıs University, Samsun, Turkey, 2017-2019. Master's degree in civil engineering. Title: "Analysis of masonry structures retrofitted with glass fiber reinforced polymer using finite element method".

-Ondokuz Mayıs University, Samsun, Turkey, 2011-2015. Bachelor's degree in civil engineering.

Languages:

Arabic: Very good, speaking and Writing.

Turkish: Very good, speaking and Writing.

English: Very good, speaking and Writing.

Publications & Works:

Publications in SCI journals:

1. M. Ziada, S. Erdem, Strain hardening green cementitious composites reinforced with nanoparticles: Mechanical and microstructural properties and high temperature effect, Case Stud. Constr. Mater. 18 (2023) e02033. <https://doi.org/https://doi.org/10.1016/j.cscm.2023.e02033>.
2. M. ZIADA, H. TANYILDIZI, M. UYSAL, Bacterial healing of geopolymer concrete exposed to combined sulfate and freeze-thaw effects, Constr. Build. Mater. 369 (2023) 130517. <https://doi.org/10.1016/j.conbuildmat.2023.130517>.
3. M. Ziada, Y. Tammam, S. Erdem. 2022. Investigation of the Mechanical, Microstructure and 3D Fractal Analysis of Nano Calcite-Modified Environmentally Friendly

and Sustainable Cementitious Composites. Buildings.
<https://doi.org/10.3390/buildings12010036>.

4. M. Ziada, S. Erdem, Y. Tammam, S. Kara, R.A. Lezcano, 2021. The Effect of Basalt Fiber on Mechanical, Microstructural, and High-Temperature Properties of Fly Ash-Based and Basalt Powder Waste-Filled Sustainable Geopolymer Mortar, Sustainability. 13.
<https://doi.org/10.3390/su132212610>.

5. TANYILDIZI, H., ZIADA, M., UYSAL, M., DOĞRUÖZ GÜNGÖR, N. & COŞKUN, A. 2022. Comparison of Bacteria-Based Self-Healing Methods In Metakaolin Geopolymer Mortars. Case Studies in Construction Materials, e00895.
<https://doi.org/10.1016/j.cscm.2022.e00895>.

6. Mahmoud Ziada, Savaş Erdem, Roberto Alonso González-Lezcano, Yosra Tammam, İrem Unkar, Influence of various fibers on the physico-mechanical properties of a sustainable geopolymer mortar-based on metakaolin and slag, Engineering Science and Technology, an International Journal, Volume 46, 2023, 101501, ISSN 2215-0986,
<https://doi.org/10.1016/j.jestch.2023.101501>.

7. T. Harun, B. Metehan, Z. Mahmoud, Bacteria-Based Crack Healing of Nanosilica and Carbon Nanotube Modified Engineered Cementitious Composites, J. Mater. Civ. Eng. 36 (2024) 4023515. <https://doi.org/10.1061/JMCEE7.MTENG-15991>.

8. M. ZIADA, H. TANYILDIZI, M. UYSAL, The influence of carbon nanotube on underwater geopolymer paste based on metakaolin and slag, Constr. Build. Mater. 414 (2024) 135047. <https://doi.org/https://doi.org/10.1016/j.conbuildmat.2024.135047>.

9. M. Ziada, H. Tanyildizi, M. Seloglu, A. Coskun, Bacteria-based crack healing of 3D printed PVA fiber reinforced geopolymer mortars, J. Build. Eng. 86 (2024) 108934.
<https://doi.org/https://doi.org/10.1016/j.jobe.2024.108934>.

10. Ziada, M. The Effect of Nano-TiO₂ and Nano-Al₂O₃ on Mechanical, Microstructure Properties and High-Temperature Resistance of Geopolymer Mortars. Arab J Sci Eng (2024). <https://doi.org/10.1007/s13369-024-09570-w>

Publications in other International Indexed Journals:

1. Ziada M., Tuhta S., Tammam Y. 2018. Analysis of Masonry Structures Retrofitted with Glass Fiber Reinforced Polymer Using Finite Element Method, International Journal of Advance Engineering and Research Development, 5, 4, 4. (Uluslararası Hakemli Dergi, İndeks türü: (Scholar)).

2. A Dushimimana, M Ziada, S Tuhta, 2018. Effect of Carbon Fiber Reinforced Polymer (CFRP) Composites Applied to Walls and Slabs Of Masonry Building. Development 5 (04), 2434-2442. (Uluslararası Hakemli Dergi, İndeks türü: (sjifactor)).

Conferences and symposiums:

1. Unkar İ., Ziada M., Erdem S. Cüref Katkılı Kırmızı Çamur Esaslı Geopolimer Harçların Mekanik Özelliklerinin Araştırılması. Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi (ICET 2021), İstanbul, Türkiye, 20-22 Kasım 2021, ss.1-8.
2. Öztürk, H., ZIADA, M. and Erdem, S. Effect of Adding Nano Materials to Fly Ash Supplemented Cement-Based Composites. Conference: 1st International Conference on Scientific and Academic ResearchAt: Konya, Turkey. 2022.
3. Ziada M., DETERMINATION OF HARDENED AND FRESH FEATURES OF METAKAOLIN-BASED GEOPOLYMER MORTAR CURED AT AMBIENT

TEMPERATURE. 6. uluslararası boğaziçi bilimsel arařtırmalar kongresi, İstanbul, Türkiye, Ocak 2025.

Books and book chapters:

1. ZIADA, M., TAMMAM, Y. & ERDEM, S. 2022. Research of Alternative Ecological Waste Materials Used in Geopolymers for Sustainable Built Environments. In: GONZÁLEZ-LEZCANO, R. A. (ed.) Urban Sustainability and Energy Management of Cities for Improved Health and Well-Being. Hershey, PA, USA: IGI Global. **(IGI Global)**.
2. Öztürk, H., Erdem, S. and Ziada, M. MODIFICATION OF FLY ASH SUPPLEMENTED CEMENT-BASED COMPOSITES WITH NANOMATERIALS. In book: International Research in Engineering Edition: First Chapter: 13 Publisher: **Serüven Publishing**. 2022.

Projects:

1. 119M063, Durabilite Etkilerine Maruz Kalmıř Metakaolin Esaslı Kolemanit Ve Alüminyum Çamuru Katkılı Geopolimer Beton Ve Harcın Bakterilerle Otonom Ve Otojen İyileřtirilmesi, 1001-Arařtırma, Bursiyer, ARDEB, MAG- Mühendislik Arařtırma Destek Grubu, Projeye Katılma/Ayrılma Tarihleri: 14.10.2019- 01.03.2022, Proje Bařlangıç/Bitiř Tarihleri: 01.09.2019- 01.03.2022. **Bursiyer. (Tübitak 1001)**.
2. 224M296, Durabilite Etkilerine Maruz Kalmıř Geri Dönüřüm Agregalı Geopolimer Harçların Farklı Metabolik Özelliklere Sahip Bakteri Ve Mantar Suřları Ile Kendiliğinden İyileřme Potansiyelinin Arařtırılması, Arařtırmacı/Uzman, Desteklenmesine karar verildi, MAG - Mühendislik Arařtırma Destek Grubu, 1001 - Arařtırma, ARDEB, Projeye Katılma/Ayrılma Tarihleri: 24.09.2024 - **(Arařtırmacı/Uzman. (Tübitak 1001)**.