

PERSONAL INFORMATION

Name Surname : Senem Bilici
Nationality : Turkish
E-mail : senembilici@aydin.edu.tr :



EDUCATION

Aveiro University, Aveiro, Ph.D. Program in Materials and Ceramic Engineering, 01/2022-01/2023

Project Title: Reaction Kinetics and Microstructural Properties of Industrial Waste-based Geopolymer Foam

Yildiz Technical University, Istanbul, Ph.D. Program in Civil Engineering, 09/2019-03/2023, GPA: 3.93/4.00

Thesis Title: Investigation of the Binding Feature of an Industrial Waste by Using Alternative Methods

Bogazici University, Istanbul, Master of Science in Civil Engineering, 09/2015-02/2019, GPA: 3.39/4.00

Thesis Title: Use of Seawater as the Mix Water for Concrete

Yildiz Technical University, Istanbul, Master of Science in Civil Engineering, 02/2016-07/2017, GPA: 3.71/4.00

Thesis Title: Structural Deformation Measurement Using Image Processing Method

Istanbul University, Istanbul, Bachelor of Science in Civil Engineering, 09/2011-06/2015, GPA: 3.72/4.00

Thesis Title: Investigation of Flexural Behavior of Concrete Beams with Glass Fiber-Reinforced Polymer Rebars

WORK EXPERIENCE

Lab Assistant

01/2022-01/2023

Aveiro University in Materials and Ceramic Engineering, Portugal

- Performing particle size distribution analysis, compressive strength, flexural strength, elasticity modulus, thermal conductivity and water absorption tests including evaluation and reporting of properties and characteristics
- Performing rheology tests

Lecturer/ Department Head of Construction Technology

09/2018- Continuing

Istanbul Aydin University, Turkey

- To conduct research in a particular field of knowledge and publish findings in professional journals and books
- To lecture “ Construction Materials, Statics and Strength Materials, Reinforced Concrete, Construction Machines and Professional English-I”
- To prepare course materials such as curriculums, homework assignments, and handouts

Lecturer

09/2017-08/2018

Istanbul Gelisim University, Turkey

RESEARCH PROJECTS

- Rui M. Novais, and Senem Bilici, “Reaction Kinetics and Microstructural Properties of Industrial Waste Based Geopolymer Foams”, The Scientific and Technological Research Council of Turkey (TUBITAK), 2022- 2023
- Nihat Kabay, and Senem Bilici, “Investigation of the Binding Feature of an Industrial Waste by Using Alternative Methods”, Yildiz Technical University, 2020 – 2023
- Nilüfer Özyurt, Senem Bilici, and Olcay Gürabi Aydoğan, “Synthetic Fiber Concretes Produced by Using Seawater for a Sustainable Future”, Bogazici University, 2019-2021.
- Savaş Erdem, and Senem Bilici, “Investigation of Flexural Behavior of Concrete Beams with Glass Fiber-Reinforced Polymer Rebars”, The Scientific and Technological Research Council of Turkey (TUBITAK), 2014-2015.

- Savaş Erdem, Senem Bilici, and Muhammet Selim Çelik, “Shaking Table Analysis and Numerical Modeling of Earthquake Behavior of a Multi-Storey Building”, The Scientific and Technological Research Council of Turkey (TUBITAK), 2014-2015.

PUBLICATIONS

Bilici, S., Carvalheiras, J., Labrincha, J. A. and Novais, R.M. (2022), Evaluation of the nature and concentration of the surfactant on the properties of red mud/metakaolin porous geopolymers foamed with aluminium, *Materials*, 15(21), 7486; <https://doi.org/10.3390/ma15217486>

Bilici, S., Kabay, N., Miyan, N., Omur, T., & Ozkan, H. (2022). Effect of washing aggregate sludge waste on the properties of alkali-activated blast furnace slag. *Journal of Building Engineering*, 105527; <https://doi.org/10.1016/j.jobe.2022.105527>

Bilici, S., and Kabay, N. “Effects of using washing aggregate sludge on alkali-activated blast furnace slag based pastes”, 6^{as} Jornadas Portuguesas de Engenharia de Estruturas, 9-11 November 2022, Lisbon, Portugal

Aydoğan, O.G., **Bilici,S.**, Akca, A. H., Balcı, E. and Özyurt, N. ‘Use of seawater as the mix water for concrete’, International Conference on “Cement – Based Materials Tailored for a Sustainable Future”, 27-29 May 2021, Istanbul, Turkey.

Aydoğan, O.G., **Bilici,S.**, Akca, A. H. and Özyurt, N. (2020). ‘Use of seawater as the mix water for concrete’, *Cementürk*(66), 56-64.

Bilici,S., Fırat Alemdar Z., and Alemdar, F. (2018). ‘Deformation measurement in a steel bridge system by using image processing method’, *Sigma Journal of Engineering and Natural Sciences*, 149-156.

Bilici,S. and Fırat Alemdar Z., (2017). ‘Deformation measurement in a steel bridge system by using image processing technique’ XX. National Mechanics Congress, 20(1), 1-10, Bursa, Turkey.

Bilici,S. and Fırat Alemdar Z., (2017). ‘Structural deformation measurement using matlab image processing toolbox’, Eurasian Journal of Civil Engineering and Architecture, 1(2), 30-37.

SKILLS

Language: Fluent in English, Beginner level in Portuguese

Software: SAP2000, AutoCAD, Microsoft Office, OriginPro