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ENGINEERING FACULTY

e - Newsletter

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LATEST ACADEMIC PAPERS

Articles published in internationally indexed peer-reviewed journals (SCI, SCIE, ESCI, and Scopus)

Caliskan, S., Almessiere, M. A., Baykal, A., Slimani, Y., Mihmanlı, A., Shirsath, S. E., & Al-Jumaiah, L. I. (2026). Structural and Magnetic Characteristics of $\text{CoFe}_x\text{Ni}_{2-x}\text{S}_4$ ($x \leq 0.06$) Nanothiospinels: DFT Calculations. *Journal of Superconductivity and Novel Magnetism*, 39(2), 42.

Al-Shuayfani, S. A., Gunday, S. T., Cevik, E., Almessiere, M. A., Caliskan, S., & Baykal, A. (2026). MoS₂ Nanosheets as an Efficient Matrix for CuFe₂O₄ Nanoparticles toward High-Performance Supercapacitors. *Materials Chemistry and Physics*, 132264.

Apak, S., Kilinc, H. C., Yurtsever, A., Haznedar, H., & Ozkan, F. (2026). Multi-resolution adaptive channel fusion transformer encoder LSTM for accurate streamflow prediction. *Scientific Reports*.

Tanyildizi, H., Sezer, M., Açık, V., Uysal, M., & Coşkun, A. (2026). Autonomous and Autogenous Self-Healing of Freeze–Thaw Cracks of Geopolymer Concrete Containing Colemanite/Red Mud. *Journal of Materials in Civil Engineering*, 38(1), 04025508.

Dehghanian, K. (2026). Optimal design of retaining walls under seismic loading using a hybrid analytical–numerical approach. *Structural and Multidisciplinary Optimization*, 69(3), 57.

Aliabadi, Z., Kalaycı, T., & Zadehdabbagh, M. (2026). Asymptotic performance of double circulant and four circulant codes with small hull dimension. *Cryptography and Communications*, 1-22.

Demirci, S., Suner, S. S., Sahiner, M., Guven, O., & Sahiner, N. (2026). Transformation of Cytotoxic Linear Polyethyleneimine (L-PEI) Into Biocompatible and Hemacompatible Crosslinked Particles With Antimicrobial Properties. *Journal of Applied Polymer Science*, 143(10), e70209.

Sahiner, N., Demirci, S., Lako, A., Torres, J. H., Suner, S. S., & Sahiner, M. (2026). Polyethyleneimine-Modified Piezoelectric Barium Titanate of Various Sizes Reveals Improved Antibacterial Properties. *Nano Select*, e70104.



Anik, E., Okur, B., Vatansever, B., Asikkutlu, A. G., Yildirim-Yalcin, M., Olcay, H. S., & Ceyhan, T. (2026). Development of Intelligent Colorimetric Indicator Film Based on Avocado Seed Starch and Chokeberry Pomace Extract for Visual Monitoring of Chicken Breast Meat Freshness. *Starch-Stärke*, 78(2), e70174.

Akgun, I. O., Uysal, M., & Yilmaz, M. (2026). Sustainable geopolymer composites incorporating waste volcanic tuff and recycled geopolymer concrete powder as base materials. *Construction and Building Materials*, 509, 145161.

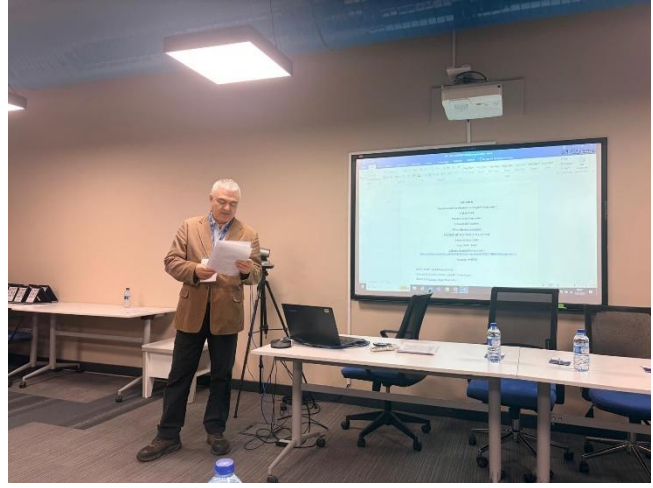
Papers presented at international scientific meetings and published in proceedings

Akay B. D., Akgümüř Gök D. (2026). Effects of Heat Treatment on Additive Manufacturing of Nickel Based Superalloys, II. International Warsaw Scientific Research and Innovation Congress, Warsaw, Poland.



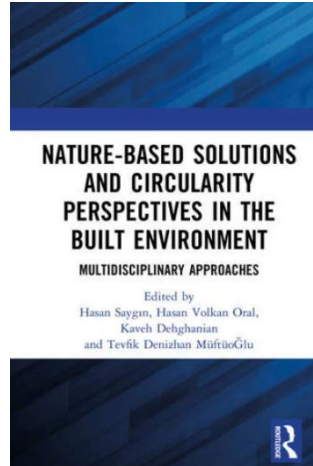
WORKSHOP

The workshop titled “DOSUDER / Sustainable Water Management and Circular Approaches Workshop”, whose opening speech was delivered by Prof. Dr. Hasan SAYGIN, Dean of the Faculty of Engineering, was held at TEKMER on February 10.



BOOK PRINTING

The book entitled “Nature-Based Solutions and Circularity Perspectives in the Built Environment: Multidisciplinary Approaches,” edited by Prof. Dr. Hasan SAYGIN, Dean of the Faculty of Engineering; Dr. Kaveh DEHGHANIAN, Vice Dean; Assoc. Prof. Dr. Hasan Volkan ORAL; and Dr. Tevfik Denizhan MÜFTÜOĞLU from the Department of Civil Engineering, has been published by the international publishing house Routledge.





ERASMUS TEACHING MOBILITY

On February 11, Dr. Fernando BENTO, Dr. Ricardo VARDASCA, Dr. Marco TERESO, and Dr. António PRATAS from ISLA Santarém University visited the Department of Computer Engineering within the scope of the Erasmus mobility program and delivered a two-hour lecture to the students.

On February 17, Sabu JOSEPH from the University of Kerala visited the Department of Civil Engineering and held meetings with Assoc. Prof. Dr. Hasan Volkan ORAL and Dr. Tevfik Denizhan MÜFTÜOĞLU regarding potential joint academic collaborations. During the visit, three separate lectures were delivered to the department's students, and the program contributed to strengthening international academic cooperation.



CONFERENCE PAPER

Assoc. Prof. Dr. Dilşad AKGÜMÜŞ GÖK, Vice Dean of the Faculty of Engineering and faculty member of the Department of Mechanical Engineering, presented her study entitled “Effects of Heat Treatment on Additive Manufacturing of Nickel-Based Superalloys” as a paper at the II. International Warsaw Scientific Research and Innovation Congress (Warsaw, Poland, 2026).





CONGRESS CO-CHAIR

Prof. Dr. Naghdali CHOUPANI, faculty member of the Department of Aerospace Engineering, participated in the 5th International Congress on Materials Engineering and Advanced Manufacturing Technologies (IMEAMTC'26) as Congress Co-Chair.



PAPER PRESENTATION

The study entitled “Investigation of the Effects of Zeotropic Refrigerants on Evaporator Capacity and System Performance,” prepared by Burhan AKSAKALLI and Hakan ALTUN, students of the Department of Mechanical Engineering, was accepted and presented as a paper at the 16th National Installation Engineering Congress and was included in the conference proceedings. Following the congress process, the study was subsequently published as a research article in the reputable journal Tesisat Mühendisliği Dergisi, thereby contributing to the academic literature.





INTERNATIONAL CONFERENCE

The 17th International Conference on Computational Methods (ICCM 2026), supported by our University and chaired by Prof. Dr. Yusuf Cengiz TOKLU from the Department of Civil Engineering, will be held in Istanbul between August 16–20, 2026.



ICCM2026

17th International Conference on
Computational Methods

<http://sci-en-tech.com/ICCM/>