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## ENGINEERING FACULTY

## e - Newsletter

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### LATEST ACADEMIC PUBLICATIONS

#### 1) Prof. Dr. Abdulhadi BAYKAL

M.A. Ansari, R. Govindasamy, M.Y.asmin Begum, M. Ghazwani, A. Alqahtani, M.N. Alomary, Y.F. Jamous, Sami A. Alyahya, Sarah Asiri, Firdos Alam Khan, Munirah A. Almessiere, and Abdulhadi

Baykal, Bioinspired ferromagnetic  $\text{CoFe}_2\text{O}_4$  nanoparticles: Potential pharmaceutical and medical applications, *Nanotechnology Reviews* 12 (2023) 20230575

Y. Slimani, M.A. Almessiere, A. Baykal, A. Demir Korkmaz, I.A. Auwal, Impression of partial replacement of  $\text{Fe}^{3+}$  by  $\text{Sn}^{4+}$  ion on structural and magnetic features of NiCuZn nanospinel ferrites, *Appl.Nanosince*, 05.08.2023.

E. Hannachi, M.I. Sayyed, Y. Slimani, M.A Almessiere, A. Baykal, M. Elsafi, Radiation attenuation attributes of Pb-free titanate-based pervoskite modified with M-type hexagonal ferrite addition, *Applied Physics A* 129 (2023) 711.

Y. Slimani, S.S. Meena, S.E. Shirsath<sup>3</sup>, E. Hannachi, M.A. Almessiere, A. Baykal, R. Sivakumar, K.M. Batoor, A. Thakur, Impact of magnetic spinel ferrite content on the structure, morphology, optical, and magneto-dielectric properties of  $\text{BaTiO}_3$  materials, *Zeitschrift für Physikalische Chemie*, 07.09.2023.

M.A. Almessiere, Y. Slimania, A. Baykal, H. Gungunes, S. Caliskan, M.G. Vakhitov, D.S. Klygach, T.I. Zubarf, S.V. Trukhanov, A.V. Trukhanov, A. Ul-Hamid, Impact of  $\text{Sc}^{3+}/\text{In}^{3+}$  ions co-substitution on structural, magnetic, and microwave features of  $\text{SrFe}_{12}\text{O}_{19}$  hexaferrites, *JALCOM* 15.09.2023

#### 2) Prof. Dr. Beşir ŞAHİN

Bilgili, M., Canpolat, C., Pinar, E. et al. Analysis of heating degree-days (HDD) data using machine learning and conventional time series methods. *Theor Appl Climatol* (2023). <https://doi.org/10.1007/s00704-023-04543-9>

#### 3) Prof. Dr. Zafer ASLAN

Akbulut, U.; Cifci, M.A.; Aslan, Z. Hybrid Modeling for Stream Flow Estimation: Integrating Machine Learning and Federated Learning. *Appl. Sci.* 2023, 13, 10203. <https://doi.org/10.3390/app131810203>

#### 4) Prof. Dr. Zeynep Dilek HEPERKAN

Çetin, Z. Heperkan, Z. D. 2023. Using microorganisms in the inactivation of *Penicillium expansum* mold in vinegar. 11TH INTERNATIONAL SCIENTIFIC RESEARCHES CONFERENCE. 22-24 August, Adana, Turkey. FULL TEXTS BOOK ISBN: 978-625-367-277-5 (Ed. İshak BASATEMUR) Pp. 791-803.



### 5) Assoc. Prof. Dr. Hüseyin ÇAĞAN KILINÇ

Mou Leong Tan, Asaad M. Armanuos, Iman Ahmadianfar, Vahdettin Demir, Salim Heddami, Ahmed M. Al-Areeq, Sani I. Abba, Bijay Halder, Huseyin Cagan Kilinc, Zaher Mundher Yaseen, Evaluation of NASA POWER and ERA5-Land for estimating tropical precipitation and temperature extremes, Journal of Hydrology, Volume 624, 2023, 129940, ISSN 0022-1694, <https://doi.org/10.1016/j.jhydrol.2023.129940>.”

Al-Areeq, A.M., Abba, S.I., Halder, B. et al. Flood Subsidence Susceptibility Mapping using Elastic-net Classifier: New Approach. Water Resour Manage (2023). <https://doi.org/10.1007/s11269-023-03591-0>

### 6) Assoc. Prof. Dr. İlham HUSEYINOV

Huseyinov, I., Diallo, I., Raed, M.W. (2023). Resume Recommendation using RNN Classification and Cosine Similarity. In: Kovalev, S., Kotenko, I., Sukhanov, A. (eds) Proceedings of the Seventh International Scientific Conference “Intelligent Information Technologies for Industry” (IITI’23). IITI 2023. Lecture Notes in Networks and Systems, vol 776. Springer, Cham. [https://doi.org/10.1007/978-3-031-43789-2\\_9](https://doi.org/10.1007/978-3-031-43789-2_9)

### 7) Assoc. Prof. Dr. Raheleh MİRZAI

Ghadirinejad, N.; Ottermo, F.; Nowzari, R.; Alsaadi, N.; Ghadiri Nejad, M. Optimizing a Green and Sustainable Off-Grid Energy-System Design: A Real Case. Sustainability 2023, 15, 12800. <https://doi.org/10.3390/su151712800>

### 8) Assist. Prof. Dr. Hasan Volkan ORAL - Assist. Prof. Dr. Kaveh DEGHANIAN

Assist. Prof. Dr. Hasan Volkan ORAL presented his study titled "The application of Nature-based solutions and Circularity Approaches in Water Management: Investigation of Circular Water Management Opportunities on Multisectoral (Urban, Industry, and Agriculture) Scale: Küçük Menderes River Basin Case Study" at the WAITRO-MENA Regional Forum-Water Workshop held at TÜBİTAK MAM.

Kaveh Dehghanian, Hasan Volkan Oral (2023): Chapter 8: The Utilization and Application of Waste and Recycled Materials in Civil Engineering, kitap ismi: Circular Economy Implementation for Sustainability in the Built Environment, DOI: 10.4018/978-1-6684-8238-4 ISBN13: 9781668482384

### 9) Assist. Prof. Dr. Mahmoud ZIADA

Mahmoud Ziada, Savaş Erdem, Roberto Alonso González-Lezcano, Yosra Tammam, İrem Unkar, Influence of various fibers on the physico-mechanical properties of a sustainable geopolymers 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>.