

Asst. Prof. MESUT BARIŞ

Personal Information

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Education Information

Doctorate, Eskişehir Technical University, Lisansüstü Eğitim Enstitüsü, Uzaktan Algılama Ve Coğrafi Bilgi Sistemleri (Dr), Turkey 2019 - Continues

Doctorate, Anadolu University, Fen Bilimleri Enstitüsü, Çevre Bilimleri (Dr), Turkey 2013 - 2018

Postgraduate, Amir Kabir Teknik Üniversitesi, Iran 2010 - 2012

Undergraduate, Shiraz Üniversitesi, Iran 2002 - 2006

Foreign Languages

English, C1 Advanced

Research Areas

Environmental Engineering, Chemical Engineering and Technology, Civil Engineering, Engineering and Technology

Academic Titles / Tasks

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

Courses

GENERAL CHEMISTRY, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020

KİMYA, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

COĞRAFİ BİLGİ SİSTEMLERİ VE UZAKTAN ALGILAMA TEMEL KAVRAMLARI, Doctorate, 2022 - 2023

MATERIALS CHEMISTRY, Undergraduate, 2021 - 2022

MALZEME KİMYASI, Undergraduate, 2021 - 2022

ANALİTİK KİMYA, Undergraduate, 2020 - 2021, 2019 - 2020

MATEMATİK MODELLEME, Postgraduate, 2020 - 2021

ANALYTICAL CHEMISTRY, Undergraduate, 2020 - 2021

SU KİRLİLİĞİ VE KONTROLÜ, Doctorate, 2020 - 2021

MATEMATİK I, Associate Degree, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Carbon dioxide absorption using monoethanolamine, piperazine and n-metil-2-pirolidon solvents under counter current regime in packed column reactor**
GÜL A., BARIŞ M., Un U. T.
International Journal of Greenhouse Gas Control, vol.131, 2024 (SCI-Expanded)
- II. **GIS-based forest fire risk determination for Milas district, Turkey**
Cetin M., Isik Pekkan Ö., Ozenen Kavlak M., ATMACA İ., Nasery S., Derakhshandeh M., Cabuk S. N.
Natural Hazards, vol.119, no.3, pp.2299-2320, 2023 (SCI-Expanded)
- III. **Evaluating the impact of dam construction on extreme shrinkage of Urmia Lake using spatial data**
BARIŞ M.
Environmental Monitoring and Assessment, vol.195, no.11, 2023 (SCI-Expanded)
- IV. **Microalgae as a Source for Bioenergy: a Search for an Energy-Efficient Process**
Derakhshandeh M.
Bioenergy Research, vol.16, no.2, pp.1065-1072, 2023 (SCI-Expanded)
- V. **Comprehensive Review of Transcriptomics (RNAs) Workflows from Blood Specimens**
Husseini A. A., Derakhshandeh M., Tatlisu N. B.
Separation and Purification Reviews, vol.51, no.1, pp.57-77, 2022 (SCI-Expanded)
- VI. **Calibration of METRIC Modeling for Evapotranspiration Estimation Using Landsat 8 Imagery Data**
Derakhshandeh M., Tombul M.
Water Resources Management, vol.36, no.1, pp.315-339, 2022 (SCI-Expanded)
- VII. **Renewable Bio-Oil from Pyrolysis of Synechocystis and Scenedesmus Wild-Type Microalgae Biomass**
Derakhshandeh M., Ateş F., Tezcan Un U.
Bioenergy Research, vol.14, no.3, pp.991-1001, 2021 (SCI-Expanded)
- VIII. **Evaluation of Wild-Type Microalgae Species Biomass as Carbon Dioxide Sink and Renewable Energy Resource**
Derakhshandeh M., ATICI T., Tezcan Un U.
Waste and Biomass Valorization, vol.12, no.1, pp.105-121, 2021 (SCI-Expanded)
- IX. **Lipid extraction from microalgae Chlorella and Synechocystis sp. using glass microparticles as disruption enhancer**
Derakhshandeh M., ATICI T., UN U. T.
Energy and Environment, vol.30, no.8, pp.1341-1355, 2019 (SSCI)
- X. **Optimization of microalgae Scenedesmus SP. growth rate using a central composite design statistical approach**
Derakhshandeh M., Tezcan Un U.
Biomass and Bioenergy, vol.122, pp.211-220, 2019 (SCI-Expanded)
- XI. **An experimental comparison of convective heat transfer and friction factor of Al₂O₃ nanofluids in a tube with and without butterfly tube inserts**
Azari A., Derakhshandeh M.
Journal of the Taiwan Institute of Chemical Engineers, vol.52, pp.31-39, 2015 (SCI-Expanded)
- XII. **An experimental comparison of water based alumina and silica nanofluids heat transfer in laminar flow regime**
Ahmad A., Mansour K., Masoud D.
Journal of Central South University, vol.20, no.12, pp.3582-3588, 2013 (SCI-Expanded)
- XIII. **An experimental study on nanofluids convective heat transfer through a straight tube under constant heat flux**
Azari A., Kalbasi M., Derakhshandeh M., Rahimi M.
Chinese Journal of Chemical Engineering, vol.21, no.10, pp.1082-1088, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **A review on models, products and techniques for evapotranspiration measurement, estimation, and**

validation

BARIŞ M., Tombul M.

Environmental Quality Management, vol.34, no.1, 2024 (Scopus)

- II. **Optimization of carbon dioxide absorption in a continuous bubble column reactor using response surface methodology**
GÜL A., BARIŞ M., TEZCAN ÜN Ü.
ENVIRONMENTAL QUALITY MANAGEMENT, vol.1, no.33, pp.79-93, 2023 (Scopus)
- III. **Effect of light on growth of green microalgae Scenedesmus quadricauda: influence of light intensity, light wavelength and photoperiods**
Fettah N., Derakhshandeh M., Tezcan Un U., Mahmoudi L.
International Journal of Energy and Environmental Engineering, vol.13, no.2, pp.703-712, 2022 (ESCI)
- IV. **Study of Spraying Technology on Absorber Performances in a H₂O/LiBr Absorption Chiller**
Maouche W., Douani M., Labbaci A., TEZCAN ÜN Ü., BARIŞ M.
KEMIJA U INDUSTRIJI/JOURNAL OF CHEMISTS AND CHEMICAL ENGINEERS, vol.71, 2022 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Enhanced Lipid Extraction from Microalgae Synechocystis and Chlorella Sp. Using Micro and Nano Particles of Glass**
BARIŞ M., UNVER Z. M., ATICI T., TEZCAN ÜN Ü.
7th Int. CeBiTec Research Conference on Prospects and challenges for the development of algal biotechnology, Germany, 24 September 2017

Supported Projects

BARIŞ M., Project Supported by Higher Education Institutions, Mikroalg Türleri Kullanılarak Nanopartikül Biyosentezi ve Üretilen Nanopartiküllerin Antibakteriyel Özelliklerinin Karakterizasyonu/İncelenmesi, 2021 - 2022

BARIŞ M., Project Supported by Higher Education Institutions, 102-Araştırma Destek Projesi (ADP), 2019 - 2020

BARIŞ M., Project Supported by Higher Education Institutions, 101.a-Genel Amaçlı Projeler (GAP), 2017 - 2019