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International Researcher IDs

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Education Information

Postgraduate, Istanbul Technical University, Kimya-Metalurji, Gıda Mühendisliği, Turkey 2018 - 2022

Undergraduate Double Major, Istanbul Technical University, Kimya-Metalurji, Gıda Mühendisliği, Turkey 2015 - 2018

Research Areas

Chemical Engineering and Technology, Food Microbiology, Food Regulations and Quality Control, Food Toxicology, Food Hygiene and Sanitation

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Kimya-Metalurji, Gıda Mühendisliği, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Recent Insights into the Use of Antagonistic Yeasts for Sustainable Biomanagement of Postharvest Pathogenic and Mycotoxigenic Fungi in Fruits with Their Prevention Strategies against Mycotoxins**
Oztekin S., Dikmetaş D. N., Devocioğlu D., Acar E. G., Karbancıoğlu Güler H. F.
Journal of Agricultural and Food Chemistry, vol.71, no.26, pp.9923-9950, 2023 (SCI-Expanded)
- II. **Hypericum perforatum Oil and Vitamin A Palmitate-Loaded Gelatin Nanofibers Cross-Linked by Tannic Acid as Wound Dressings**
Aktürk A., Kasikci F. N., Dikmetaş D. N., Karbancıoğlu Güler H. F., Erol-Taygun M. M.
ACS Omega, vol.8, no.26, pp.24023-24031, 2023 (SCI-Expanded)
- III. **Biocontrol Potential of Antagonistic Yeasts on In Vitro and In Vivo Aspergillus Growth and Its AFB1 Production**
Dikmetaş D. N., Özer H., Karbancıoğlu Güler H. F.
TOXINS, vol.15, no.6, pp.1-17, 2023 (SCI-Expanded)
- IV. **Photocatalytic and Antimicrobial Properties of Electrospun TiO₂-SiO₂-Al₂O₃-ZrO₂-CaO-CeO₂ Ceramic Membranes**
Yerli Soylu N., Soylu A., Dikmetaş D. N., Karbancıoğlu Güler H. F., Kucukbayrak S., Erol Taygun M. M.
ACS Omega, vol.8, no.12, pp.10836-10850, 2023 (SCI-Expanded)
- V. **The production of pH indicator Ca and Cu alginate ((1,4)- β -D-mannuronic acid and α -L-guluronic acid) cryogels containing anthocyanin obtained via red cabbage extraction for monitoring chicken**

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Dikmetaş D. N., Uysal E., Karbancıoğlu Güler H. F., Gürmen S.

International Journal of Biological Macromolecules, vol.231, 2023 (SCI-Expanded)

- VI. **A novel exopolysaccharide from cold-adapted yeast *Rhodotorula glutinis*, along with structural, rheological, antioxidant, and antibiofilm properties**
Oztekin S., Dikmetaş D. N., Karbancıoğlu Güler H. F.
Biomass Conversion and Biorefinery, 2023 (SCI-Expanded)
- VII. **Synthesis of calcium, copper and iron alginate hydrogels doped with Ag nanoparticles produced by chemical reduction method**
Uysal E., Ateş S., Safaltın Ş., Dikmetaş D. N., Devocioğlu D., Karbancıoğlu Güler H. F., Gürmen S.
MATERIALS CHEMISTRY AND PHYSICS, vol.281, 2022 (SCI-Expanded)
- VIII. **Antibacterial, Antifungal, Antimycotoxigenic, and Antioxidant Activities of Essential Oils: An Updated Review**
Mutlu-İngök A., Devocioğlu D., Dikmetaş D. N., Karbancıoğlu-Güler F., Capanoğlu E.
MOLECULES, vol.25, no.20, 2020 (SCI-Expanded)

Articles Published in Other Journals

- I. **Portakal (*Citrus sinensis*) Kabuğundan Elde Edilen Hidrosol/Esansiyel Yağların Antimikrobiyal ve Antioksidan Özellikleri**
Dikmetaş D. N., Konuşur G., Mutlu İngök A., Gülsünoğlu Z., Karbancıoğlu Güler H. F.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.7, pp.274-283, 2019 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Advances in biological activities of essential oils**
Mutlu İngök A., Devocioğlu D., Dikmetaş D. N., Karbancıoğlu Güler H. F.
in: Studies in Natural Products Chemistry, Atta-ur-Rahman, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.331-366, 2022
- II. **Safety Issues for Non-Thermal Food Processing Applications in Grain Industries**
İngök A. M., Devocioğlu D., Dikmetaş D. N., Karbancıoğlu Güler H. F.
in: Non-Thermal Processing Technologies for the Grain Industry, M. Selvamuthukumar, Editor, CRC, New York , Florida, pp.253-284, 2021

Refereed Congress / Symposium Publications in Proceedings

- I. **BIOCONTROL ABILITY OF THE METSCHNIKOWIA SPP. AGAINST ASPERGILLUS FLAVUS AND ITS AFB1 PRODUCTION**
DİKMETEŞ D. N., ÖZER H., KARBANCIOĞLU GÜLER H. F.
Mycotwin-Mycokay 2021 International Conference, Bari, Italy, 10 November 2021
- II. **Fabrication of PVA Alginate Nanofibers Doped with Zn and Ag Nanoparticles for Wound Dressing Applications**
DİKMETEŞ D. N., İNGÖK A., AKTÜRK A., KARBANCIOĞLU GÜLER H. F., EROL TAYGUN M. M., OSKAY S.
INTERNATIONAL MATERIALS TECHNOLOGIES AND METALLURGY CONFERENCE, 31 October - 01 November 2019
- III. **Investigation of the antimicrobial effects of red beet root (*Beta vulgaris* L.) wastes from Turkey**
MUTLU İNGÖK A., DİKMETEŞ D. N., KARBANCIOĞLU GÜLER H. F.
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Ankara,

Turkey, 28 - 29 June 2019

Metrics

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