Asst. Prof. MURAT YANAT



Personal Information

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International Researcher IDs

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Education Information

Doctorate, Wageningen Universiteit, Food Process Engineering, Netherlands 2019 - 2024 Postgraduate, Ege University, The Institute of Science, Turkey 2016 - 2019 Undergraduate, Ege University, The Faculty of Engineering, Food Engineering, Turkey 2010 - 2016

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Chitin nanocrystal reinforced bioplastics with added functionality: Toward sustainable, biodegradable use, Wageningen Universiteit, Food Process Engineering, 2024

Postgraduate, Kabin tipi dondurucuda iki farklı donma hızının çilek ve taze fasulyenin kalite özellikleri üzerine etkisi, Ege University, 2019

Research Areas

Biomaterials, Nanomaterials, Food Engineering

Academic Titles / Tasks

Assistant Professor, Akdeniz University, Faculty of Engineering, Department of Food Engineering, 2024 - Continues

Advising Theses

Yanat M., Exergy analysis of polylactic acid (PLA) production, Postgraduate, E.Voortman(Student), 2023

Yanat M., The biodegradability of chitin nanocrystals reinforced polylactic acid plastic material, Postgraduate, M.Ma(Student), 2023

Yanat M., The migration properties and the biodegradability of polylactic acid packages reinforced with chitin nanocrystals, Postgraduate, M.Muthurajan(Student), 2022

Yanat M., The antimicrobial activity of chitin and chitosan nanoparticles reinforced polylactic acid films, Postgraduate, V.Mayr(Student), 2022

Yanat M., Meta-analysis of chitin and chitosan antimicrobial activity and experimental design of antimicrobial activity of chitin/chitosan nanoparticles-PLA composite, Postgraduate, X.Cao(Student), 2021

Yanat M., Antioxidant Activity of biodegradable PLA film Reinforced with Chitin Nanocrystals, Postgraduate, P.van(Student), 2020

Published journal articles indexed by SCI, SSCI, and AHCI

I. Polylactic acid films reinforced with chitin nanocrystals: Biodegradation and migration behavior YANAT M., Muthurajan M., Strubel M., Grolle K., Schroën K.

Food Packaging and Shelf Life, vol.40, 2023 (SCI-Expanded)

II. Advances in chitin-based nanoparticle use in biodegradable polymers: A review

YANAT M., Schroën K.

Carbohydrate Polymers, vol.312, 2023 (SCI-Expanded)

III. Comparison of the Degree of Acetylation of Chitin Nanocrystals Measured by Various Analysis Methods

YANAT M., Colijn I., de Boer K., Schroën K.

Polymers, vol.15, no.2, 2023 (SCI-Expanded)

IV. Chitin Nanocrystals Provide Antioxidant Activity to Polylactic Acid Films

YANAT M., Colijn I., Schroën K.

Polymers, vol.14, no.14, 2022 (SCI-Expanded)

V. Chitin Nanocrystal Hydrophobicity Adjustment by Fatty Acid Esterification for Improved Polylactic Acid Nanocomposites

Colijn I., YANAT M., Terhaerdt G., Molenveld K., Boeriu C. G., Schroën K.

Polymers, vol.14, no.13, 2022 (SCI-Expanded)

VI. Preparation methods and applications of chitosan nanoparticles; with an outlook toward reinforcement of biodegradable packaging

YANAT M., Schroën K.

Reactive and Functional Polymers, vol.161, 2021 (SCI-Expanded)

VII. The effects of the novel home freezing system on microstructure, color, antioxidant activity, and microbiological properties of strawberries Effets du nouveau systéme de congélation domestique sur la microstructure, la couleur, l'activité antioxydante et les propriétés microbiologiques des fraises

Rayman Ergün A., YANAT M., BAYSAL T.

International Journal of Refrigeration, vol.121, pp.228-234, 2021 (SCI-Expanded)

Articles Published in Other Journals

I. Effect of freezing rate and storage time on quality parameters of strawberry frozen in modified and home type freezer

Yanat M., Baysal T.

Hrvatski časopis za prehrambenu tehnologiju, biotehnologiju i nutricionizam, no.13, pp.154-158, 2018 (Peer-Reviewed Journal)

Scientific Refereeing

Discover Polymers, Journal Indexed in ESCI, August 2024
Discover Food, Journal Indexed in ESCI, July 2024
FOOD PACKAGING AND SHELF LIFE, Journal Indexed in SCI-E, July 2024
HELIYON, Journal Indexed in SCI-E, January 2023
CARBOHYDRATE POLYMERS, Journal Indexed in SCI-E, January 2023

Metrics

Publication: 9

Citation (Scopus): 292 H-Index (Scopus): 7

Congress and Symposium Activities

19th International Conference on Polysaccharides and Glycoscience (ICPG 2023), Invited Speaker, Praha, Czech Republic, 2023

18th International Conference on Polysaccharides and Glycoscience (ICPG 2022), Invited Speaker, Praha, Czech Republic, 2022

9th International Congress of Food Technologists, Biotechnologists and Nutritionists, Invited Speaker, Zagreb, Croatia, 2018

New trends in Food safety and quality - NIFSA 2017, Invited Speaker, Kaunas, Lithuania, 2017
5th International Conference Sustainable Postharvest And Food Technologies - INOPTEP 2017, Invited Speaker, Vrnjacka Banja, Serbia, 2017