

Halis Simsek Assistant Professor, Agricultural & Biological Engineering PhD 2012, North Dakota State University MS 2006, Purdue, University MS 2001, Gebze Technical, University, Turkiye BS 1997, Selcuk University, Turkiye Teaches ASM 23600

Recent Papers

KB Shivaram, P Bhatt, B Applegate, H Simsek. 2022. Bacteriophage-based biocontrol technology to enhance the efficiency of wastewater treatment and reduce targeted bacterial biofilms. Science of The Total Environment, 160723.

E Küçüktopcu, B Cemek, H Simsek. 2022. Application of Spatial Analysis to Determine the Effect of Insulation Thickness on Energy Efficiency and Cost Savings for Cold Storage. Processes 10 (11), 2393.

P Bhatt, G Bhandari, K Bhatt, H Simsek. 2022. Microalgae-based removal of pollutants from wastewaters: Occurrence, toxicity and circular economy. Chemosphere 306, 135576.

S Eshkabilov, J Stenger, EN Knutson, E Küçüktopcu, H Simsek, CW Lee. 2022. Hyperspectral Image Data and Waveband Indexing Methods to Estimate Nutrient Concentration on Lettuce (Lactuca sativa L.) Cultivars. Sensors 22 (21), 8158.

P Bhatt, G Bhandari, RF Turco, Z Aminikhoei, K Bhatt, H Simsek. 2022. Algae in wastewater treatment, mechanism, and application of biomass for production of value-added product. Environmental Pollution 309, 119688.

B Cemek, H Arslan, E Kucuktopcu, H Simsek. 2022. Comparative analysis of machine learning techniques for estimating groundwater deuterium and oxygen-18 isotopes. Stochastic Environmental Research and Risk Assessment.

E Küçüktopcu, B Cemek, H Simsek, JQ Ni. 2022. Computational Fluid Dynamics Modeling of a Broiler House Microclimate in Summer and Winter. Animals 12 (7).

E Küçüktopcu, B Cemek, H Simsek. 2022. The Economic and Environmental Impact of Greenhouse Heating Pipe Insulation. Sustainability 14 (1), 549. M Ahsan, S Eshkabilov, B Cemek, E Küçüktopcu, CW Lee, H Simsek. 2022. Deep learning models to determine nutrient concentration in hydroponically grown lettuce cultivars (Lactuca sativa L.). Sustainability 14 (1), 416.

S Sunoj, A Hammed, C Igathinathane, S Eshkabilov, H Simsek. 2021. Identification, quantification, and growth profiling of eight different microalgae species using image analysis. Algal Research 60, 102487.

S Bhushan, MS Rana, M Bhandari, AK Sharma, H Simsek, SK Prajapati. 2021. Enzymatic pretreatment of algal biomass has different optimal conditions for biogas and bioethanol routes. Chemosphere 284, 131264.

S Aydin, B Yagmur, ED Yegenoglu, H Simsek. 2021. The effects of different levels of Fe EDDHA applications in a vineyard (Vitis vinifera L.) in the semi arid environment. Fres. Env. Bul. 732, 12100.

D Souguir, G Hoermann, S Halis, BW Jatoi, M Hachicha. 2021. Genotoxic potential of soils irrigated with treated wastewater: case of the Cebala-Borj Touil irrigated perimeter (Tunisia). Appl Ecol Environ Res 19 (3), 2073-2090.

S Eshkabilov, A Lee, X Sun, CW Lee, H Simsek^{*}. 2021. Hyperspectral imaging techniques for rapid detection of nutrient content of hydroponically grown lettuce cultivars. Computers & Electronics in Agriculture 181.

Sharma, S., Aygun, A. and Simsek, H., 2020. Electrochemical treatment of sunflower oil refinery wastewater and optimization of the parameters using response surface methodology. Chemosphere, 249, p.126511.

Sharma, S. and Simsek, H., 2020. Sugar beet industry process wastewater treatment using electrochemical methods and optimization of parameters using response surface methodology. Chemosphere, 238, p.124669.