

Mustafa Özilgen



Profesör

mozilgen@yeditepe.edu.tr

Ofis: Mühendislik A307
Telefon: (216) 578 0486

Araştırma Konuları

Gıda, kimya ve ilaç ve biyolojik üretim endüstrisinde enerji verimliliğinin artırılması
Gıda ve kimya endüstrisi atıklarından katma değeri yüksek ürünler eldesi
Biyolojik sistemlerde termodinamik uygulamaları

Eğitimi

BS: Chemical Engineer, Middle East Technical University, 1979
MS: Chemical Engineer, Middle East Technical University, 1980
PhD: Chemical Engineer, University of California at Davis, USA, 1985

Uluslararası hakemli yayınlar

- Özilgen M. Energy utilization and carbon dioxide emission during production of snacks. *Journal of Cleaner Production* 112:2601-2612(2016).
- Yalçınkaya BH, Erikli Ş, Özilgen BA, Olcay AB, Sorgüven E, Özilgen M. Thermodynamic analysis of the squid mantle muscles and giant axon during slow swimming and jet escape propulsion. *Energy* 102:537-549(2016).
- Değerli B, Nazir S, Sorgüven E, Hitzmann B, Özilgen M. Assessment of energy and exergy efficiencies of *farm to fork* grain cultivation and bread making processes in Turkey and Germany. *Energy* 93:421-434(2015).
- Küçük K, Tehavita R, Sorgüven E, Demirel Y, Özilgen M. Bioenergetics of growth and lipid production in *Chlamydomonas reinhardtii*. *Energy* 83:503-510(2015).
- Sorgüven E, Özilgen M. First and second law work production efficiency of a muscle cell. *International Journal of Exergy* 18:142-156(2015).
- Çatak J, Develi AÇ, Sorgüven E, Özilgen M, İnal HS. Lifespan entropy generated by the masseter muscles during chewing: an indicator of the life expectancy? *International Journal of Exergy*, 18:46-66(2015).
- Değerli B, Küçük K, Sorgüven E, Özilgen M. Thermodynamic analysis of serogroup C antigen production by *Neisseria Meningitidis*. *International Journal of Exergy*, 16:1-21(2015).
- Öztürk B, Özilgen M, Argin S, McClements DJ. Nanoemulsion delivery systems for oil-soluble vitamins: Influence of carrier oil type on lipid digestion and vitamin D3 bioaccessibility. *Food Chemistry* 187:499-506(2015).

Kitaplar

- Özilgen, M and Sorgüven S, *BioThermodynamics, principles and applications*. Taylor & Francis, USA, 2016
- Özilgen, M, *Handbook of Food Process Modeling and Statistical Quality Control*, CRC Books, Taylor and Francis, 2011
- Özilgen M. Artistic Narrative of Technology, Yeditepe University Press, 2014
- Özilgen, M, *Endüstrileşme Sürecinde Bilgi Birikiminin Öyküsü*, 438 sayfa, Arkadaş Yayınevi, Ankara, 2011

Verdiği Dersler

- Güz: Biothermodynamics (GBE 321), Mathematical Modeling in Chemical Engineering (CHBE 386)
- İlkbahar: Advanced Chemical and Biological Reaction Engineering (CHBE 386), Statistical Quality Control in Food Industry (FDE 345)

Web sitesi: https://www.researchgate.net/profile/Mustafa_Ozilgen/info