

## Asst. Prof. HANDE GÜNAN YÜCEL

### Personal Information

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### Education Information

Doctorate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2011 - 2017

Postgraduate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2008 - 2011

Undergraduate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2004 - 2008

### Dissertations

Doctorate, DEVELOPMENT OF A NEW HYBRID ADSORBENT WITH *Pichia stipitis* YEAST FOR LITHIUM(I) ADSORPTION, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2017

Postgraduate, Investigation of the usage of sugar beet pulp for bioethanol production, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2011

### Research Areas

Chemical Engineering and Technology, Biotechnology, Biotechnological Processes and Fermentation Technology, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2021 - Continues

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2009 - 2021

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Lithium (I) biofortified *Dunaliella salina* as a potential functional nutrition supplement**  
Günan Yücel H., Ertuğrul Karatay S., Aksu Z., Dönmez G.  
ALGAL RESEARCH-BIOMASS BIOFUELS AND BIOPRODUCTS, vol.56, pp.102257, 2021 (Journal Indexed in SCI Expanded)
- II. **Novel application of isolated *Micrococcus luteus* and *Bacillus pumilus* for Li<sup>+</sup> ion biosorption: a comparative study**  
Günan Yücel H., Aksu Z., Usta T., Ertuğrul Karatay S., Dönmez G.  
Preparative Biochemistry & Biotechnology, vol.52, pp.1872029, 2021 (Journal Indexed in SCI Expanded)
- III. **A comparative investigation of lithium(I) biosorption properties of *Aspergillus versicolor* and *Kluyveromyces marxianus***  
GÜNAN YÜCEL H., AKSU Z., Yalçınkaya G. B. , Karatay S. E. , Dönmez G.  
Water science and technology : a journal of the International Association on Water Pollution Research, vol.81, no.3, pp.499-507, 2020 (Journal Indexed in SCI)

- IV. **Enhancing lithium ion capture by using a negatively overcharged biomass-based hybrid adsorbent**  
Günan-Yücel H., AKSU Z.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.7, no.5, 2019 (Journal Indexed in SCI)
- V. **Effect of surface modification of Pichia stipitis cells on lithium ion recovery**  
Yucel H., AKSU Z.  
NEW BIOTECHNOLOGY, vol.33, 2016 (Journal Indexed in SCI)
- VI. **Ethanol fermentation characteristics of Pichia stipitis yeast from sugar beet pulp hydrolysate: Use of new detoxification methods**  
Yucel H., AKSU Z.  
FUEL, vol.158, pp.793-799, 2015 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Characterization of Surface Properties of Yeast Cells Before and After Surface Modification and Comparison of Their Lithium Ion Adsorption Capacities**  
Günan Yücel H., Aksu Z.  
The 12th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2017), Dubrovnik, Croatia, 4 - 08 October 2017
- II. **Bioethanol Production from Sugar Beet Pulp by Pichia stipitis Yeast: Kinetic Modeling of Dilute Acid Hydrolysis, Use of New Detoxification Methods and Investigation of Fermentation Parameters**  
Günan Yücel H., Aksu Z.  
The 12th Conference on Sustainable Development of Energy, Water and Environment Systems (SDEWES2017), Dubrovnik, Croatia, 4 - 08 October 2017
- III. **Ethanol Production by P. stipitis from Hydrolyzed Sugar Beet Pulp**  
Günan Yücel H., Aksu Z.  
7th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC-7), Athens, Greece, 27 April - 01 May 2012

## Supported Projects

- KOŞARSOY AĞÇELİ G., GÜNAN YÜCEL H., Project Supported by Higher Education Institutions, Melaslı besiyerinde Fe<sub>3</sub>O<sub>4</sub> nanopartiküllerine immobilize edilen mikroorganizmalardan levan üretimi ve üretilen levanın biyoaktivitesinin belirlenmesi, 2020 - Continues
- GÜNAN YÜCEL H., HAMMAMCHİ H., AKSU Z., KOŞARSOY AĞÇELİ G., CİHANGİR N., Project Supported by Higher Education Institutions, Mikrobiyal Yöntemlerle Üretilen ZnO Nanopartikülleri ve Curdlan Biyopolimerinden Polimer Nanokompozit Malzeme Geliştirilmesi, 2020 - Continues
- GÜNAN YÜCEL H., Project Supported by Higher Education Institutions, Türkiyedeki Tarımsal Atıklardan Biyoetanol Üretim Verimlerinin Karşılaştırılması, 2015 - Continues
- GÜNAN YÜCEL H., AKSU Z., Project Supported by Higher Education Institutions, Pichia stipitis Mayasıyla Şeker Pancarı Küspesinden Biyoetanol Üretimi: Seyreltik Asit Hidrolizinin Kinetik Modellemesi, Yeni Zehir Giderme Yöntemlerinin Kullanımı ve Fermantasyonu Etkileyen Parametrelerin İncelenmesi, 2017 - 2017
- AKSU Z., GÜNAN YÜCEL H., Project Supported by Higher Education Institutions, Maya Hücrelerinin Lityum(I) İyonu ile Etkileşiminin İncelenmesi ve Hücre Yüzey Modifikasyonunun Lityum(I) Adsorpsiyon Kapasitesine Etkisi, 2016 - 2017
- AKSU Z., GÜNAN YÜCEL H., Project Supported by Higher Education Institutions, Pichia stipitis Hücreleri ile Lityum İyonu Geri Kazanımının İncelenmesi, 2016 - 2017
- AKSU Z., GÜNAN YÜCEL H., Project Supported by Higher Education Institutions, Pichia stipitis Hücrelerinin Yüzey Modifikasyonunun Lityum İyon Geri Kazanımına Etkisi, 2016 - 2016

## Citations

Total Citations (WOS):44

h-index (WOS):2