

Expert PhD Ayşe Saygün

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International Researcher IDs

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Education Information

Doctorate, Istanbul Technical University, Kimya-Metalurji, Gıda Mühendisliği, Turkey 2006 - 2017

Undergraduate, Istanbul Technical University, Kimya-Metalurji, Gıda Mühendisliği, Turkey 2001 - 2006

Foreign Languages

English, C2 Mastery

Research Areas

Food Engineering

Academic Titles / Tasks

Expert PhD, Istanbul Technical University, Kimya-Metalurji, Gıda Mühendisliği, 2016 - Continues

Research Assistant, Istanbul Technical University, Kimya-Metalurji, Gıda Mühendisliği, 2010 - 2016

Courses

Fundamentals of Biology, Undergraduate, 2023 - 2024

Advising Theses

Kırkın Gözükırmızı C., Saygün A., EKMEK ÜRETİMİNDE AÇIĞA ÇIKAN BAZI GAZ FAZLI BİLEŞİKLERİN EKMEK MUHAFAZASINDA KULLANILMASI, Postgraduate, E.ÜNAL(Student), 2023

Saygün A., Yeşilçubuk N. Ş., Development of pea protein agar based biodegradable film with the incorporation of essential oils, Postgraduate, S.ÖZHAN(Student), 2022

Published journal articles indexed by SCI, SSCI, and AHCI

1. Aloe vera Oil-Added Agar Gelatin Edible Films for Kashar Cheese Packaging

Isık I., Yenipazar H., Saygün A., Şahin Yeşilçubuk N., Ozkan Zayim E., Catalgil Giz H.

ACS Omega, vol.8, no.21, pp.18516-18522, 2023 (SCI-Expanded)

II. Encapsulation of chia seed oil with curcumin and investigation of release behaviour & antioxidant properties of microcapsules during in vitro digestion studies

Firtin B., Yenipazar H., Saygun A., Şahin Yeşilçubuk N.

LWT-FOOD SCIENCE AND TECHNOLOGY, vol.134, 2020 (SCI-Expanded)

III. New biocompatible antibacterial wound dressing candidates; agar-locust bean gum and agar-salep films

Akkaya N. E., Ergun C., Saygun A., Şahin Yeşilçubuk N., Akel-Sadoglu N., Kavakli I. H., Türkmen H. S., Catalgil-Giz H.

INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.155, pp.430-438, 2020 (SCI-Expanded)

Books & Book Chapters

I. Effect of the COVID-19 Pandemic on Food Safety and Nutritional Behaviors

Saygün A.

in: Handbook of Research on Interdisciplinary Perspectives on the Threats and Impacts of Pandemics, Ş. Omeraki Çekirdekci, Ö. İngün Karkış, S. Gönültaş, Editor, IGI Global yayınevi, Pennsylvania, pp.444-462, 2021

II. Microbial Lipid Production

Saygün A., Şahin Yeşilçubuk N., Aran N.

in: Food Lipids, Chemistry, Nutrition, and Biotechnology,, C. C. Akoh, Editor, CRC, New York , Florida, pp.403-420, 2017

Refereed Congress / Symposium Publications in Proceedings

I. Utilization of some gas phased compounds that are released during bread production in bread storage

Ünal E., Saygün A., Kırkın Gözükmızı C.

V. International Agricultural, Biological & Life Science Conference,, Edirne, Turkey, 18 - 20 September 2023, pp.483

II. Evaluation of Aloe vera Added Edible Films for Quality Preservation of Kashar Cheese

Saygün A.

1st International Health Sciences Research Days Congress, İstanbul, Turkey, 14 - 16 September 2022, pp.120-122

III. Antimicrobial Effect of Pea Protein Based Edible Films with the Incorporation of Thyme, Eucalyptus, Lemon and Niaouli Essential Oils

Saygün A., Şahin Yeşilçubuk N., Özhan S.

MESMAP: The 7th International Mediterranean Symposium on Medicinal and Aromatic Plants, İzmir, Turkey, 18 - 20 November 2021, pp.160-161

IV. Authenticity and Quality of Industrially and Conventionally Produced Molasses Determined Using Carbon Isotope ($\delta^{13}C$) Ratios and 5-Hydroxymethylfurfural (HMF) Levels

Saygün A., Erbil D., Yenipazar H., Şahin Yeşilçubuk N.

II. International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 1 - 03 September 2020, pp.430-431

V. Essential oils: Antimicrobial and Biological Activity for Food Applications

Saygün A.

2. Uluslararası Tarım, Çevre ve Sağlık Kongresi, Aydın, Turkey, 18 - 19 October 2019, pp.240-241

VI. Yarrowia lipolytica CBS 6303 Mayası Kullanılarak Lipaz Enzimi Üretimine Oleik Asidin Etkisinin İncelenmesi

Saygün A., Şahin Yeşilçubuk N., Aran N.

YABİTED III. Bitkisel Yağ Kongresi, İzmir, Turkey, 13 - 15 April 2017, pp.140-141

VII. Effect of Oleic Acid on Lipase Production from Yarrowia lipolytica strains

SAYGÜN A., ŞAHİN YEŞİLÇUBUK N., Aran N.

13th Euro Fed Lipid Congress, Florence, Italy, 27 - 30 September 2015

VIII. **Alternatif Yağ Kaynağı Olarak Mikrobiyal Yağlar**

SAYGÜN A., ŞAHİN YEŞİLÇUBUK N., Aran N.

YABİTED II. Bitkisel Yağ Kongresi, Tekirdağ, Turkey, 7 - 09 May 2015

IX. **Evaluation of Fermentation Conditions by Plackett Burman Design for Lipase Production from *Yarrowia lipolytica***

SAYGÜN A., ŞAHİN YEŞİLÇUBUK N., Aran N.

12th Euro Fed Lipid Congress, Montpellier, France, 14 - 17 September 2014

X. **Single Cell Oil SCO Production from *Yarrowia lipolytica***

SAYGÜN A., ŞAHİN YEŞİLÇUBUK N., Aran N.

11th Euro Fed Lipid Congress, Antalya, Turkey, 27 - 30 October 2013

XI. **The effects of different carbon and nitrogen sources on sporulation in *Bacillus indicus* HU36**

SAYGÜN A., Kapçı B., YAVUZ M., Aran N.

IFT Annual Meeting and Food Expo, New Orleans, United States Of America, 11 - 14 June 2011

XII. **Single Cell Oil SCO Production from Oleaginous Yeasts**

SAYGÜN A., Aran N.

Novel Approaches in Food Industry (NAFI) International Food Congress, İzmir, Turkey, 26 - 29 May 2011

XIII. **Effects of Different Cryoprotectants on Growth and Survival of *Bacillus indicus* HU36 at Freezing Temperatures**

SAYGÜN A., Aran N.

IFT Annual Meeting & Food Expo, Chicago, United States Of America, 17 - 20 July 2010

Metrics

Publication: 24

Citation (WoS): 51

Citation (Scopus): 86

H-Index (WoS): 3

H-Index (Scopus): 3