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Education Information

Doctorate, Cukurova University, Fen Bilimleri , Kimya, Turkey 2013 - Continues
Postgraduate, Cukurova University, Fen Bilimleri , Kimya, Turkey 2010 - 2013
Undergraduate, Karadeniz Technical University, Fen-Edebiyat, Kimya, Turkey 2006 - 2010

Research Areas

Chemistry, Biochemistry, Biosynthesis, Biotransformations, Natural Sciences

Academic Titles / Tasks

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Kimya, 2011 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Immobilization of xylanase on differently functionalized silica gel supports for orange juice clarification**
Alagöz D., Varan N. E., Toprak A., Yıldırım D., Tükel S. S., Fernandez-Lafuente R.
PROCESS BIOCHEMISTRY, vol.113, pp.270-280, 2022 (SCI-Expanded)

II. **Modified silicates and carbon nanotubes for immobilization of lipase from Rhizomucor miehei: Effect of support and immobilization technique on the catalytic performance of the immobilized biocatalysts**
ALAGÖZ D., TOPRAK A., YILDIRIM D., TÜKEL S. S., Lafuente R. F.
ENZYME AND MICROBIAL TECHNOLOGY, vol.144, 2021 (SCI-Expanded)

III. **Tuning dimeric formate dehydrogenases reduction/oxidation activities by immobilization**
Yıldırım D., Alagöz D., Toprak A., Tükel S., Fernandez-Lafuente R.
Process Biochemistry, vol.85, pp.97-105, 2019 (SCI-Expanded)

IV. **Protein-coated microcrystals of Prunus armeniaca hydroxynitrile lyase: an effective and recyclable biocatalyst for synthesis of (R)-mandelonitrile**
YILDIRIM D., TOPRAK A., ALAGÖZ D., TÜKEL S. S.
CHEMICAL PAPERS, vol.73, no.1, pp.185-193, 2019 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Characterization of Lactate Dehydrogenase Immobilized onto Mesoporous Silica**
ALAGÖZ D., YILDIRIM D., TOPRAK A., VARAN N. E., TÜKEL S. S.
2. EURASIA BIOCHEMICAL APPROACHES TECHNOLOGIES (EBAT) CONGRESS, 26 - 29 October 2019

II. **Performance of Different Immobilized Formate Dehydrogenases in TheOxidation of Formate And Reduction of Hydrogen Carbonate (HCO3−) Reactions**
YILDIRIM D., TOPRAK A., ALAGÖZ D., BİNAY B., tükel S.
1st EBAT, 26 - 30 October 2018

III. **Immobilisation and Stabilisation of Ene-reductase by Entrapment in Sol-Gel**
YILDIRIM D., TOPRAK A., ALAGÖZ D., TÜKEL S. S.
1. Euroasia Biochemical Approaches & Technologies Congress, Antalya, Turkey, 27 - 30 October 2018, pp.102

IV. **NITRILASE-CATALYSED SYNTHESIS OF BENZOYLFORMIC ACID BY FREE AND IMMOBILIZED NITRILASES**
TOPRAK A., YILDIRIM D., ALAGÖZ D., TÜKEL S. S.
The 12th Conference on Protein Stabilization, Vilnus, Lithuania, 16 - 18 May 2018, pp.41

V. **COVALENT IMMOBILIZATION OF RHIZOMUCOR MIEHEI LIPASE ONTO 3-CARBOXYPROPYL FUNCTIONALIZED SILICA GEL**
ALAGÖZ D., YILDIRIM D., TOPRAK A., TÜKEL S. S.
The 12th Conference on Protein Stabilization, Vilnius, Lithuania, 16 - 18 May 2018, pp.43

VI. **COVALENT IMMOBILIZATION OF XYLANASE FROM TRICHODERMA LONGIBRACHIATUM ONTO 3-AMINOPROPYL-FUNCTIONALIZED SILICA GEL**
YILDIRIM D., ALAGÖZ D., TOPRAK A., TÜKEL S. S.
The 12th Conference on Protein Stabilization, Vilnus, Lithuania, 16 - 18 May 2018, pp.39

VII. **Effect of clothianidin on ester ase enzyme activities of Aph is gossypii(Glover) (hemiptera:Aphididae) populations damaging on cott on inTurkey**
Ulusoy S., DİNÇER S., TOPRAK A.
6th International MOLE CULAR BIOLO GYand BIOTE CHNOLO GY CONGRESS(MOLBIOTE CH), 22 - 25 December 2017

VIII. **A Novel Immobilization Method for Hydroxynitrile Lyase: Protein-Coated Microcrystals**
ALAGÖZ D., YILDIRIM D., TOPRAK A., TÜKEL S. S.
BioTech 2017 and 7th Czech-Swiss Symposium, PRAG, Czech Republic, 13 - 17 June 2017

IX. **Covalent Immobilization and Characterization of Chloroperoxidase Enzyme Onto Immobead 150**
YÜCEBİLGİÇ G., YILDIRIM D., TOPRAK A.
IX INTERNATIONAL CONFERENCE IN CHEMISTRY KYIV-TOULOUSE (ICKT-9), Kiev, Ukraine, 4 - 09 June 2017, pp.195

X. **Lipoksijenazın çapraz bağlı enzim agregatlarının hazırlanmasının yanıt yüzey yöntemi kullanılarak optimizasyonu**
TOPRAK A., TÜKEL S. S., YILDIRIM D.
5. Ulusal Kataliz Kongresi, Adana, Turkey, 23 - 26 April 2014, pp.430

XI. **Congo Red Boyarmaddesinin Non- yonik Yüzey Aktif Madde (Triton-X 114) ile Bulutlanma Noktas Ekstraksiyonu**
TOPRAK A.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011

Supported Projects

TÜKEL S. S., YILDIRIM D., TOPRAK A., Project Supported by Higher Education Institutions, NİTRİLAZIN FARKLI YÖNTEMLERLE İMMOBİLİZASYONU VE KARBOKSİLİK ASİTLERİN SENTEZİNDE KULLANIMININ ARAŞTIRILMASI, 2015 - 2021

ALAGÖZ D., YILDIRIM D., TÜKEL S. S., TOPRAK A., Project Supported by Higher Education Institutions, Laktat dehidrogenazın mezoporlu silika üzerine immobilizasyonu ve karakterizasyonu, 2018 - 2020
YILDIRIM D., TÜKEL S. S., ALAGÖZ D., TOPRAK A., Project Supported by Higher Education Institutions, Ksilanazın glutaraldehit ile aktifleştirilmiş 3aminopropil silika üzerine immobilizasyonu, 2017 - 2019
TÜKEL S. S., YILDIRIM D., ALAGÖZ D., TOPRAK A., Project Supported by Higher Education Institutions, Nitrilaz katalizli benzoilformik asit sentezi, 2017 - 2019
ALPTEKİN Ö., TOPRAK A., Project Supported by Higher Education Institutions, Üreazın Kalsiyum Silikat Üzerine Kovalent İmmobilizasyonu ve Karakterizasyonu, 2016 - 2019
BİLGİN R., TOPRAK A., Project Supported by Higher Education Institutions, Kimya Bölümü Biyokimya Araştırma Laboratuvarı Yüksek performanslı sıvı kromatoğrafisi (HPLC) Cihazının Onarımı, 2017 - 2018
ALAGÖZ D., YILDIRIM D., TOPRAK A., TÜKEL S. S., Project Supported by Higher Education Institutions, Rhizomucor miehei lipazının 3propilsülfonik asit ile türevleştirilmiş silika jel ve 3karboksipropil ile türevleştirilmiş silika jel üzerine immobilizasyonu ve karakterizasyonu, 2017 - 2018
BİLGİN R., TOPRAK A., AKAR Ç., SERİNER R., Project Supported by Higher Education Institutions, PURIFICATION OF CATALASE FROM THE WALNUT Juglans Regia, 2017 - 2017
TÜKEL S. S., TOPRAK A., Project Supported by Higher Education Institutions, Kimya Bölümü, Biyokimya Araştırma Laboratuvarı UV-Visible Spektofotometre, Su Banyosu ve Saf Su Sistemi Cihazlarının Onarımı, 2015 - 2016

Metrics

Publication: 20
Citation (WoS): 37
Citation (Scopus): 50
H-Index (WoS): 3
H-Index (Scopus): 3