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Education Information

Doctorate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2020 - Continues
Postgraduate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2017 - 2020
Undergraduate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2010 - 2015

Research Areas

Chemical Engineering and Technology

Academic Titles / Tasks

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Formic acid dehydrogenation catalyzed by bimetallic nanoalloys supported by monodisperse-porous microspheres: Catalytic and visible light driven photocatalytic hydrogen generation**
Al-Qurahi M. A. A., DEMİR M., Tümer B., GÖKÇAL B., Tuncel A.
International Journal of Hydrogen Energy, vol.51, pp.111-132, 2024 (SCI-Expanded)

II. **Monodisperse-porous silica microspheres with flexible phenylboronic acid functionalized-polycationic molecular brushes as a sorbent for teamed boronate affinity chromatography in batch and capillary column systems**
GÖKÇAL B., Kip Ç., Tuncel A.
Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.676, 2023 (SCI-Expanded)

III. **Porous, Oxygen Vacancy Enhanced CeO2-x Microspheres with Efficient Enzyme-Mimetic and Photothermal Properties**
Akdogan C. Z. S., GÖKÇAL B., POLAT M., HAMALOĞLU K. Ö., Kip C., Tuncel A.
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.10, pp.9492-9505, 2022 (SCI-Expanded)

IV. **A new nanozyme with peroxidase-like activity for simultaneous phosphoprotein isolation and detection based on metal oxide affinity chromatography: Monodisperse-porous cerium oxide microspheres**
YILDIRIM D., Gokcal B., BÜBER E., Kip C., DEMİR M., Tuncel A.
CHEMICAL ENGINEERING JOURNAL, vol.403, 2021 (SCI-Expanded)

V. **Glutathione detection in human serum using gold nanoparticle decorated, monodisperse porous**

silica microspheres in the magnetic form
Gökçal B., Hamaloğlu K. Ö., Kip Ç., Güngör S., Büber E., Tuncel A.
ANALYTICAL METHODS, vol.12, no.43, pp.5219-5228, 2020 (SCI-Expanded)

VI. **One-pot, direct glucose detection in human whole blood without using a dilution factor by a magnetic nanozyme with dual enzymatic activity**
Gokcal B., Kip C., Tuncel A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.843, 2020 (SCI-Expanded)

VII. **Colorimetric determination of tumor cells via peroxidase-like activity of a cell internalizable nanozyme: Hyaluronic acid attached-silica microspheres containing accessible magnetite nanoparticles**
Kip C., ÇETİN E., Gokcal B., Savas B. O., Onur M. A., Tuncel A.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.598, 2020 (SCI-Expanded)

VIII. **Silica microspheres functionalized with the iminodiacetic acid/copper(II) complex as a peroxidase mimic for use in metal affinity chromatography-based colorimetric determination of histidine-tagged proteins**
Gokcal B., Kip C., Sahinbas D., Celik E., Tuncel A.
MICROCHIMICA ACTA, vol.187, no.2, 2020 (SCI-Expanded)

IX. **Aggregation-resistant nanozyme containing accessible magnetite nanoparticles immobilized in monodisperse-porous silica microspheres for colorimetric assay of human genomic DNA**
Ogut E., Kip C., Gokcal B., Tuncel A.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.550, pp.90-98, 2019 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Ion exchange membranes with enhanced antifouling properties to produce energy from renewable sources**
GÜLER E., Eti M., Cihanoğlu A., Altıok E., HAMALOĞLU K. Ö., Gökçal B., TUNCEL S. A., KABAY N.
Proceedings of the 6th International Symposium on Green and Smart Technologies for a Sustainable Society, 9 - 10 December 2021

II. **Antibacterial Behaviour of Novel Anion Exchange Membranes Synthesized for Reverse Electrodialysis**
Eti M., Cihanoğlu A., HAMALOĞLU K. Ö., Gökçal B., GÜLER E., TUNCEL S. A., KABAY N.
16th International Conference Student Conference on Advanced Science and Technology, ICAST 2021, 2 - 03 December 2021

III. **Synthesis and characterization ofcomposite antibiofouling anion exchange membranes for reverse electrodialysis applications**
Eti M., Gökçal B., HAMALOĞLU K. Ö., Cihanoğlu A., GÜLER E., TUNCEL S. A., KABAY N.
V. International Ege Composite Materials Symposium, KOMPEGE 2021, 4 - 06 November 2021

IV. **Colorimetric Method for insulin detection using a new magnetic nanozyme**
Gökçal B., HAMALOĞLU K. Ö.
7th International Conference on New Trends in Chemistry, 25 - 26 September 2021

V. **Kirlenmeye Dirençli Membranlar: Gümüş Nanopartikül İmmobilize Edilmiş Poliepiklorhidrin Esaslı Anyon Değiştirici Membranların Sentezi**
Hamaloğlu K. Ö., Gökçal B., Tuncel S. A., Kabay N.
UKMK 2020, 14. Ulusal Kimya Mühendisliği Kongresi, Konya, Turkey, 10 July 2021, pp.1

VI. **Monodisperse-porous metal oxide microspheres with peroxidase/oxidase mimetic activity as a new tool for biomolecule determination**
Gökçal B., ÖĞÜT S. E., Babacan R., KİP F. Ç., HAMALOĞLU K. Ö., TUNCEL S. A.
XXVII.Balkan Clinical LaboratoryFederation Meeting and XXX.National Congress of theTurkish Biochemical SocietyTBS 2019, 27 - 31 October 2019

Metrics

Publication: 15
Citation (WoS): 73
Citation (Scopus): 119
H-Index (WoS): 5
H-Index (Scopus): 6