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Personal Information

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Education Information

Doctorate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2009 - 2014

Postgraduate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2007 - 2009

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 2003 - 2007

Dissertations

Doctorate, Synthesis and Characterization of New Monolithic Stationary Phases For Capillary Electrochromatography, Hacettepe Üniversitesi, Mühendislik Fakültesi, 2014

Research Areas

Chemical Engineering and Technology, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Harvard University, Center For Engineering In Medicine, 2016 - 2017

Courses

KMU 480 Enerji Teknolojileri, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Alterations in Cytoskeleton and Mitochondria in the Development and Reversal of Steatosis in Human Hepatocytes**
Fan L., Gokaltun A., Maggipinto S., Kitagawa Y., Martyn J., Yeh H., Uygun B. E., Yarmush M. L., Usta O. B.
Cellular and Molecular Gastroenterology and Hepatology, vol.16, no.2, pp.243-261, 2023 (SCI-Expanded)
- II. **CYP450 drug inducibility in NAFLD via an in vitro hepatic model: Understanding drug-drug interactions in the fatty liver**
Rey-Bedon C., Banik P., Gokaltun A., Hofheinz O., Yarmush M. L., Uygun M. K., Usta O. B.
BIOMEDICINE & PHARMACOTHERAPY, vol.146, 2022 (SCI-Expanded)
- III. **A microfluidic 3D hepatocyte chip for hepatotoxicity testing of nanoparticles**
Li L., Gokduman K., Gokaltun A., Yarmush M. L., Usta O. B.

- NANOMEDICINE, vol.14, no.16, pp.2209-2226, 2019 (SCI-Expanded)
- IV. Simple Surface Modification of Poly(dimethylsiloxane) via Surface Segregating Smart Polymers for Biomicrofluidics
Gokaltun A., Kang Y. B. (, Yarmush M. L., Usta O. B., Asatekin A.
SCIENTIFIC REPORTS, vol.9, 2019 (SCI-Expanded)
- V. Organic polymer-based monolithic capillary columns and their applications in food analysis
AYDOĞAN C., Gokaltun A., DENİZLİ A., El-Rassi Z.
JOURNAL OF SEPARATION SCIENCE, vol.42, no.5, pp.962-979, 2019 (SCI-Expanded)
- VI. Post-polymerization modification of a new reactive monolith for reversed phase and hydrophilic interaction capillary electrochromatography of neutral, polar, and biologically active compounds
Gokaltun A., Tuncel A.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.29, no.7, pp.2110-2120, 2018 (SCI-Expanded)
- VII. Biochromatographic applications of polymethacrylate monolithic columns used in electro- and liquid phase-separations
AYDOĞAN C., Gokaltun A., DENİZLİ A., El Rassi Z.
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.41, no.10, pp.572-582, 2018 (SCI-Expanded)
- VIII. Octadecylamine-attached poly(3-chloro-2-hydroxypropyl methacrylate-co-ethylene dimethacrylate) microspheres as a new stationary phase for microbore reversed phase chromatography
Gokaltun A., Celebi B., Tuncel A.
ANALYTICAL METHODS, vol.6, no.15, pp.5712-5719, 2014 (SCI-Expanded)
- IX. Preparation of an Electrochromatographic Stationary Phase Using a New Polymethacrylate Monolith with Chloropropyl Functionality
Gokaltun A., Aydogan C., Celebi B., DENİZLİ A., Tuncel A.
CHROMATOGRAPHIA, vol.77, pp.459-469, 2014 (SCI-Expanded)
- X. Polyethylenimine attached-poly(3-chloro-2-hydroxypropyl methacrylate-co-ethylene dimethacrylate) monosized-porous microspheres as a new separation medium for polar compounds
Celebi B., Gokaltun A., Arman E., Evirgen O. A., Tuncel A.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.441, pp.629-637, 2014 (SCI-Expanded)
- XI. Comparison of activity behaviors of particle based and monolithic immobilized enzyme reactors operated in semi-micro-liquid chromatography system
Celebi B., Gokaltun A., Tuncel A.
SEPARATION AND PURIFICATION TECHNOLOGY, vol.118, pp.294-299, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. Recent advances in nonbiofouling PDMS surface modification strategies applicable to microfluidic technology
Gokaltun A., Yarmush M. L., Asatekin A., Usta O. B.
TECHNOLOGY, vol.5, no.1, pp.1-12, 2017 (ESCI)

Supported Projects

- GÖKALTUN A. A., Project Supported by Higher Education Institutions, Aktif olarak kontrol edilebilen in vitro karaciğer için yeni nesil mikroakışkan platformlar, 2016 - 2017
- AKSU Z., GÖKALTUN A. A., Project Supported by Higher Education Institutions, Müdekk Akreditasyonu Sürecinde Hacettepe Üniversitesi Kimya Mühendisliği Bölümü'nün Eğitim Alt Yapısının İyileştirilmesi, 2015 - 2017

Metrics

Publication: 12

Citation (WoS): 76

Citation (Scopus): 10

H-Index (WoS): 5

H-Index (Scopus): 2