

Lect. MUSTAFA CİHAN DEMİR

Personal Information

Other Email: mcihandemir@gmail.com

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Education

Undergraduate, Anadolu University, Açıköğretim Fakültesi, Görsel İletişim Tasarımı Bölümü (Aöf), Turkey 2024 - Continues

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji ve Nanotıp A.B.D., Turkey 2018 - Continues

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği A.B.D., Turkey 2014 - 2017

Undergraduate, Selcuk University, Faculty Of Engineering, Department Of Chemistry Engineering, Turkey 2010 - 2013

Foreign Languages

English, C1 Advanced

Dissertations

Postgraduate, SYNTHESIS OF ORGANOSILICON BASED CAPILLARY MONOLITHS AND THEIR USAGE IN NANO-LIQUID CHROMATOGRAPHY APPLICATIONS AS STATIONARY MEDIA, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2017

Research Areas

Catalysis and Catalytic Processes, Composites, Polymeric Materials, Material Characterization, Biosensor, Chromatographic Analysis, nanocomposites, Spectroscopy

Academic Positions

Lecturer, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2019 - Continues

Courses

Undergraduate

Chemistry Laboratory - I, Undergraduate, 2022 - 2023

Chemistry Laboratory - II, Undergraduate, 2021 - 2022

Instrumental Analysis Laboratory, Undergraduate, 2022 - 2023

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Ni-Pt nanoparticle decorated, C, N-doped titania microparticles with low band gap energy as an efficient catalyst for hydrogen generation from hydrous hydrazine**
DEMİR M. C., HACİEFENDİOĞLU D., POLAT M., Tuncel A.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.703, 2024 (SCI-Expanded)
- II. **Formic acid dehydrogenation catalyzed by bimetallic nanoalloys supported by monodisperse-porous microspheres: Catalytic and visible light driven photocatalytic hydrogen generation**
Demir M. C., Demir M., Tümer B., Gökçal B., Tuncel A.
International Journal of Hydrogen Energy, vol.51, pp.111-132, 2024 (SCI-Expanded)
- III. **Highly Porous, Molecularly Imprinted Core-Shell Type Boronate Affinity Sorbent with a Large Surface Area for Enrichment and Detection of Sialic Acid Isomers**
Kip C., Demir M. C., Yıldırım D., Hamaloğlu K. Ö., Çelikbıçak Ö., Tuncel A.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.31, no.7, pp.2806-2817, 2021 (SCI-Expanded)
- IV. **Recent trends in sorbents for bioaffinity chromatography**
Kip C., HAMALOĞLU K. Ö., Demir C., Tuncel A.
JOURNAL OF SEPARATION SCIENCE, vol.44, no.6, pp.1273-1291, 2021 (SCI-Expanded)
- V. **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)
- VI. **Alkanethiol-functionalized organosilicon monoliths for nano-reversed-phase liquid chromatography**
Demir C., Kip C., Tuncel A.
ELECTROPHORESIS, vol.39, no.22, pp.2919-2928, 2018 (SCI-Expanded)
- VII. **One pot synthesis of carboxyl functionalized-polyhedral oligomeric siloxane based monolith via photoinitiated thiol-methacrylate polymerization for nano-hydrophilic interaction chromatography**
Kip C., Demir C., Tuncel A.
JOURNAL OF CHROMATOGRAPHY A, vol.1502, pp.14-23, 2017 (SCI-Expanded)

Funded Projects

Demir M. C., Tuncel S. A., Project Supported by Higher Education Institutions, Protein tayini için peroksidaz-mikrozim bazlı biyosensör geliştirilmesi, 2019 - 2021

TUNCEL S. A., DEMİR M. C., TUBITAK Project, Organosilikon Kapiler Monolitlerin Tiyol-En Kimyası İle Sentezi ve Nano-Sıvı Kromatografisinde Sabit Faz Olarak Kullanımı, 2015 - 2017

Scientific Research / Working Group Memberships

Mikro Ve Nanomalzeme Araştırma Laboratuvarı, Hacettepe University, Turkey,

https://lab.hacettepe.edu.tr/tr/laboratuvar/mikro_ve_nanomalzeme_arastirma_laboratuvari-181, 2015 - Continues

Metrics

Publication: 7

Citation (WoS): 61

Citation (Scopus): 102

H-Index (WoS): 4

H-Index (Scopus): 4

Congress and Symposium Activities

HPLC 2017 - 45th International Symposium on High Performance Liquid Phase Separations and Related Techniques, Attendee, Praha, Czech Republic, 2017

HPLC 2016 - 44th International Symposium & Exhibit on High Performance Liquid Phase Separations and Related Techniques, Attendee, California, United States Of America, 2016

Scholarships

YÖK 100/2000 DOKTORA BURSUSU, YOK, 2018 - 2019

TÜBİTAK 1001 PROJESİ YÜKSEK LİSANS BURSUSU, TUBİTAK, 2015 - 2017