

## Lect. MUSTAFA CİHAN DEMİR

### Personal Information

**Other Email:** mcihandemir@gmail.com

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### Education Information

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 Titles / Tasks

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

### Courses

Chemistry Laboratory - I, Undergraduate, 2022 - 2023

Chemistry Laboratory - II, Undergraduate, 2021 - 2022

Instrumental Analysis Laboratory, Undergraduate, 2022 - 2023

### Published journal articles indexed by 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-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, 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)

## Supported 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., TÜBİTAK 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](https://lab.hacettepe.edu.tr/tr/laboratuvar/mikro_ve_nanomalzeme_arastirma_laboratuvari-181), 2015 - Continues

## Metrics

Publication: 7

Citation (WoS): 61

Citation (Scopus): 94

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