

## Res. Asst. NAİM YAĞIZ DEMİR

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Middle East Technical University, Institute of Marine Sciences, Oceanography, Turkey 2023 - Continues

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp A.B.D., Turkey 2018 - 2021

Undergraduate, Dokuz Eylul University, Fen Fakültesi, Kimya Bölümü, Turkey 2010 - 2017

### Dissertations

Postgraduate, Trombosit aktivasyonu için alternatif mekanik yöntemlerin belirlenmesi ve geliştirilmesi, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp A.B.D., 2021

### Research Areas

Chemical Oceanography, Biogeochemical Cycles, Nanotechnology, Biosensor, Electrochemistry, Solid-State Chemistry

### Academic Titles / Tasks

Research Assistant, Middle East Technical University, Institute of Marine Sciences, Oceanography, 2024 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Precision phenylalanine sensing in blood with nanomaterial-enhanced electrodes**  
Akyilmaz I., Demir N. Y., Bas D., DUMAN M.  
RSC ADVANCES, vol.14, no.41, pp.29874-29882, 2024 (SCI-Expanded)
- II. **Red cabbage extract-mediated colorimetric sensor for swift, sensitive and economic detection of urease-positive bacteria by naked eye and Smartphone platform**  
Celik C., Demir N. Y., Duman M., Ildiz N., Öçsoy İ.  
SCIENTIFIC REPORTS, vol.13, no.1, 2023 (SCI-Expanded)
- III. **Experimental Investigation of Microfluidic Device for Platelet Activation**  
Demir N. Y., Bozyel I., Erman B., Gökçen D., Duman M.  
IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, vol.70, no.3, pp.954-961, 2023 (SCI-Expanded)
- IV. **Sodium silicate/polyurethane microcapsules used for self-healing in cementitious materials: Monomer optimization, characterization, and fracture behavior**  
Beglarigale A., Seki Y., Demir N. Y., Yazıcı H.

## Refereed Congress / Symposium Publications in Proceedings

- I. **Towards multi-element characterization of marine metal nanoparticles: First results from the suboxic zone of the Black Sea**  
Yücel M., Alımlı N., Borovinskaya O., Demir N. Y., Cura H., Gülmez Z. A., Tanner M., Djurdjevic S.  
Goldschmidt 2023 Conference, Lyon, France, 9 - 14 July 2023
- II. **Western Black Sea suboxic layer biogeochemical structure during the December 2022 R/V Bilim Expedition**  
Yücel M., Alımlı N., Cura H., Demir N. Y., Myroshnychenko V., Fach B. A., Arkn Ş. S., Tuğrul S., Salihoğlu B.  
Goldschmidt 2023 Conference, Lyon, France, 09 July 2023
- III. **Organic carbon distributions and carbon burial in a modern Proterozoic ocean analogue: the Sea of Marmara**  
Yücel M., Alımlı N., Gülmez Z. A., Cura H., Demir N. Y.  
Goldschmidt 2023, Lyon, France, 9 - 14 July 2023

## Supported Projects

Yücel M., Salihoğlu B., Fach Salihoğlu B. A., Örek H., Alımlı N., Demir N. Y., Uygurer Z. P., H2020 Project, DeepTrace: Tracing nanoparticle-fuelled co-mobilization of catalyst metals across Earth's deep-sea redox interfaces to pave the way for habitability detection in Ocean Worlds , 2023 - 2027  
TUBITAK Project, Development of a Point-of-care System for Early Diagnosis and Follow-up of Phenylketonuria, 2018 - 2021

## Scientific Refereeing

SENSORS AND ACTUATORS REPORTS, SCI Journal, May 2024  
SENSORS AND ACTUATORS, B: CHEMICAL, SCI Journal, June 2023

## Tasks In Event Organizations

Bitir Soylu B., Kalkan Tezcan E., TOHUMCU B. E., DEMİR N. Y., SAVAŞ İ. Y., Deniz ve İklim Okulu, Social Activities, Turkey, Aralık 2023  
Yücel M., Alımlı N., Demir N. Y., The BRIDGE-BS 2nd General Assembly, Workshop Organization, Ankara, Turkey, Eylül 2023  
Şahin Yücel E., Yücel M., Salihoğlu B., Uygurer Z. P., Demir N. Y., Durgut B., Alımlı N., Gülmez Z. A., Bitir Soylu B., TÜRKİYE'NİN BİRLEŞMİŞ MİLLETLER OKYANUS BİLİMLERİ ON YILINA KATKILARI KONFERANSI, Workshop Organization, Ankara, Turkey, Eylül 2023

## Congress and Symposium Activities

Goldschmidt 2023, Attendee, Lyon, France, 2023  
26th International Conference on Miniaturized Systems for Chemistry and Life Sciences, Attendee, Hangzhou, China, 2022  
16th International Nanoscience and Nanotechnology Conference, Attendee, Ankara, Turkey, 2022