

## **Personal Information**

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## **International Researcher IDs**

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Publons / Web Of Science ResearcherID: IAL-9864-2023

ScopusID: 58203406500

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## **Education Information**

Doctorate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2023 - Continues

Postgraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2022 - 2023

Postgraduate, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, Metallurgical and Materials Engineering, Turkey 2020 - 2022

Undergraduate, Gebze Technical University, Faculty Of Engineering, Department Of Materials Science And Engineering, Turkey 2014 - 2019

## **Foreign Languages**

English, C1 Advanced

## **Certificates, Courses and Trainings**

Vocational Course, Advanced Functional Ceramics, Yonsei University, 2020

Vocational Course, Material Processing, Georgia Institute of Technology, 2020

## **Dissertations**

Postgraduate, Recycling of ZnS from wastes and its utilization as an electrode material in supercapacitors, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2023

## **Research Areas**

Energy storage technologies, Advanced Energy Technologies, Metallurgical and Materials Engineering, Material science and engineering, Chemical and Electrochemical Properties, Production Metallurgy, Hydrometallurgy, Engineering and Technology

## Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2022 - Continues

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

- I. **Kinetics and mechanism of Pb(II), Cd(II) and Cu(II) adsorption on ferrochrome ash from aqueous solutions**  
Ugurlu E., AYDIN O., GENÇTEN M., BİROL B.  
International Journal of Environmental Analytical Chemistry, 2024 (SCI-Expanded)
- II. **Recycling valuable materials from the cathodes of spent lithium-ion batteries: A comprehensive review**  
YAŞA S., AYDIN O., Al-Bujasim M., BİROL B., GENÇTEN M.  
Journal of Energy Storage, vol.73, 2023 (SCI-Expanded)
- III. **Production of ZnS based supercapacitor electrode material from ferrochrome ash waste**  
Aydın O., Birol B., Gençten M.  
IONICS, vol.29, pp.3335-3352, 2023 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **PRODUCTION OF A ZnO-BASED SUPERCAPACITOR ELECTRODE MATERIAL RECOVERED FROM THE FERROCHROME ASH WASTE**  
YAŞA S., AYDIN O., BİROL B., GENÇTEN M.  
12th AEGEAN ANALYTICAL CHEMISTRY DAYS (AACD2023), İstanbul, Turkey, 19 - 22 October 2023, pp.250-251
- II. **RECYCLING OF SPENT LI-ION BATTERIES FOR PRODUCTION OF METAL SULPHIDE AS SUPERCAPACITOR ELECTRODE MATERIAL**  
YAŞA S., AYDIN O., BİROL B., GENÇTEN M.  
12th AEGEAN ANALYTICAL CHEMISTRY DAYS (AACD2023), İstanbul, Turkey, 19 - 22 October 2023, pp.106
- III. **RECOVERY OF YTTRIUM IN FLUORESCENT PHOSPHOR POWDERS BY SOLVENT EXTRACTION USING CYANEX 272**  
Hatipoğlu U., Birol B., Aydın O., Bilen A.  
INTERNATIONAL ISTANBUL MODERN SCIENTIFIC RESEARCH CONGRESS-V, İstanbul, Turkey, 9 - 11 July 2023, pp.259-260
- IV. **Production of Metal Sulfides from Ferrochrome Flue Dusts and Investigation of Their Electrochemical Properties**  
Aydın O., Gençten M., Birol B.  
21 International Metallurgy and Materials Congress (IMMC 2022), İstanbul, Turkey, 6 - 08 October 2022

## Metrics

Publication: 7

Citation (WoS): 1

Citation (Scopus): 2

H-Index (WoS): 1

H-Index (Scopus): 1