

Asst. Prof. EMRAH DEMİR

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AIF-2986-2022

ScopusID: 57203840523

Education Information

Post Doctorate, Gebze Technical University, Institute Of Nanotechnology, Turkey 2017 - 2019

Doctorate, Technische Universitaet Dresden, Matematik ve Fen Bilimleri Fakültesi, Kimya, Germany 2010 - 2015

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Polymer Science and Technology, Turkey 2007 - 2009

Undergraduate, İstanbul University-Cerrahpaşa, Faculty Of Engineering, Department Of Chemistry, Turkey 2001 - 2006

Foreign Languages

English, C1 Advanced

Research Areas

Chemistry, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2021 - Continues

Courses

Bilimsel Araştırma Yöntemleri ve Etik, Postgraduate, 2023 - 2024

Malzeme Bilimi, Undergraduate, 2023 - 2024

Yarı İletken Devre Teknolojisi, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- Li-S battery cathode anchoring polysulfides by interaction between redox-active imide and carbon nanotube**

Yeşilot S., Küçükköylü S., Demir E., Mutlu T., Demir-Cakan R.

Solid State Sciences, vol.137, 2023 (SCI-Expanded)

- II. **Highly sulfur-rich polymeric cathode materials via inverse vulcanization of sulfur for lithium-sulfur batteries**
YEŞİLOT S., Kucukkoylu S., MUTLU T., Demir E., DEMİR ÇAKAN R.
MATERIALS CHEMISTRY AND PHYSICS, vol.285, 2022 (SCI-Expanded)
- III. **Synthesis, characterization, optical and electrochemical performances of 3-fold interpenetrated Copper(II) coordination polymer with a flexible zwitterionic ligand**
Ciftci E., ARICI M., Demir E., Demir-Cakan R., Wriedt M., YEŞİLEL O. Z.
JOURNAL OF SOLID STATE CHEMISTRY, vol.302, 2021 (SCI-Expanded)
- IV. **Prompt microwave-assisted synthesis of carbon coated Si nanocomposites as anode for lithium-ion batteries**
Uctepe A., Demir E., Tekin B., Dursun B., Ozturk O., Sel O., Demir-Cakan R.
SOLID STATE IONICS, vol.354, 2020 (SCI-Expanded)
- V. **Phosphazene based star-branched polymeric cathode materials via inverse vulcanization of sulfur for lithium-sulfur batteries**
Yesilot S., Kucukkoylu S., Demir E., Demir-Cakan R.
POLYMER CHEMISTRY, vol.11, no.25, pp.4124-4132, 2020 (SCI-Expanded)
- VI. **Advanced Thermosets from Sulfur and Renewable Benzoxazine and Ionones via Inverse Vulcanization**
Bayram O., Kışkan B., Demir E., Demir-Cakan R., Yağcı Y.
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.8, no.24, pp.9145-9155, 2020 (SCI-Expanded)
- VII. **Utilization of The Indonesian's Spent Tea Leaves as Promising Porous Hard Carbon Precursors for Anode Materials in Sodium Ion Batteries**
Arie A. A., Tekin B., Demir E., Demir-Cakan R.
WASTE AND BIOMASS VALORIZATION, vol.11, no.6, pp.3121-3131, 2020 (SCI-Expanded)
- VIII. **A novel polyphosphazene with nitroxide radical side groups as cathode-active material in Li-ion batteries**
Yesilot S., Hacivelioglu F., Kucukkoylu S., Demir E., Celik K. B., Demir-Cakan R.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.30, no.12, pp.2977-2982, 2019 (SCI-Expanded)
- IX. **Bismuth oxide nanoparticles embedded carbon nanofibers as self-standing anode material for Na-ion batteries**
Demir E., Soytas S. H., Demir-Cakan R.
SOLID STATE IONICS, vol.342, 2019 (SCI-Expanded)
- X. **Chitosan derived N-doped carbon coated SnO₂ nanocomposite anodes for Na-ion batteries**
Aydin M., Demir E., Unal B., Dursun B., Ahsen A. S., Demir-Cakan R.
SOLID STATE IONICS, vol.341, 2019 (SCI-Expanded)
- XI. **Hard carbons derived from waste tea bag powder as anodes for sodium ion battery**
Arie A. A., Tekin B., Demir E., Demir-Cakan R.
MATERIALS TECHNOLOGY, vol.34, no.9, pp.515-524, 2019 (SCI-Expanded)
- XII. **Apricot shell derived hard carbons and their tin oxide composites as anode materials for sodium-ion batteries**
Demir E., Aydin M., Arie A. A., Demir-Cakan R.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.788, pp.1093-1102, 2019 (SCI-Expanded)
- XIII. **Activated porous carbons derived from the Indonesian snake fruit peel as anode materials for sodium ion batteries**
Arie A. A., Kristianto H., Demir E., Cakan R. D.
MATERIALS CHEMISTRY AND PHYSICS, vol.217, pp.254-261, 2018 (SCI-Expanded)
- XIV. **Heterograft Copolymers via Double Click Reactions Using One-Pot Technique**
Dag A., Durmaz H., Demir E., Hızal G., Tunca Ü.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.46, no.20, pp.6969-6977, 2008 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. Nano sensor technology based on semiconductor nanocrystals

Martin J., Staudinger U., Demir E., Spudat C., Poetschke P., Voit B., Otto T., Gessner T.

Conference on Integrated Optics - Devices, Materials, and Technologies XVI, San-Francisco, Costa Rica, 23 - 25

January 2012, vol.8264

Metrics

Publication: 15

Citation (WoS): 205

Citation (Scopus): 175

H-Index (WoS): 7

H-Index (Scopus): 6