

Asst. Prof. İsmail Seçkin ÇARDAKLI

Personal Information

Web: <https://avesis.atauni.edu.tr/cardakli>

International Researcher IDs

ScholarID: L0ttB40AAAAJ

ORCID: 0000-0003-1033-7697

ScopusID: 37057050400

Yoksis Researcher ID: 118415

Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Metalurji Ve Malzeme Mühendisliği, Turkey 2011 - 2019

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Metalurji Ve Malzeme Mühendisliği, Turkey 2007 - 2010

Undergraduate, Middle East Technical University, Faculty Of Engineering, Metalurji Ve Malzeme Mühendisliği, Turkey 2000 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Characterization of rapidly solidified 8% chromium cold work tool steel, Middle East Technical University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering, 2019

Postgraduate, Production of high carbon ferromanganese from a manganese ore located in Erzincan , Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği, 2010

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Physical Metallurgy, Thermal Treatment, Production Metallurgy, Principles of Foundry Technology, Pyrometallurgy, Engineering and Technology

Courses

Undergraduate

Malzeme Karakterizasyonu, Undergraduate, 2019 - 2020

Plastik Şekil Verme, Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Response surface methodology for the design of malachite green dye removal by γ -Fe₂O₃ dispersed on reduced graphene oxide sheets**
Zhu L., Sana A., Qamar M. T., Bahadur A., Liu G., Aslam M., Zidan A., ÇARDAKLI İ. S., Iqbal S., Mahmood S., et al.
SCIENTIFIC REPORTS, vol.15, no.1, 2025 (SCI-Expanded)
- II. **Utilization of egg white for the eco-friendly synthesis of cobalt oxide nanoparticles aimed at the photocatalytic degradation of methylene blue and ciprofloxacin**
Fatima M., Shahid S., Mansoor S., Afzal S., Javed M., Zidan A., Çardaklı İ. S., Bahadur A., Iqbal S., Mahmood S., et al.
Ionics, vol.31, no.2, pp.2007-2019, 2025 (SCI-Expanded)
- III. **Graphene oxide-mediated green synthesis of Ag, Co₃O₄ and ZnO nanocomposites for multifunctional antimicrobial applications**
Manzar R., Mahmood S., Farrukh M. A., Laraib Q., Nawaz R., Qamar M. T., Zidan A., ÇARDAKLI İ. S., MOTAMENİ A., Iqbal S., et al.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.113, no.2, pp.573-591, 2025 (SCI-Expanded)
- IV. **Highly operative removal of amoxicillin (AMX) from aqueous solution by MnFe₂O₄ nanoparticles and carboxy methyl cellulose (CMC) composite**
Riaz T., Tahira F., Mansoor S., Shahid S., Javed M., Shahzadi T., Zidan A., ÇARDAKLI İ. S., Zaib M., Bahadur A., et al.
POLYHEDRON, vol.263, 2024 (SCI-Expanded)
- V. **Corrosion Inhibitors for Carbon Steel in HCl Environment: Synthesis and Characterization of Trimethoprim-Metal Complexes**
Naser A. A., Hamed H., Alshemary A. Z., Çardaklı İ. S.
MEDZIAGOTYRA, vol.30, no.3, pp.319-326, 2024 (SCI-Expanded)
- VI. **Extraction and degradation rate analysis of calcium phosphate from diverse fish Bones: A comparative study**
Alshemary A. Z., Cheikh L., ÇARDAKLI İ. S.
Journal of Saudi Chemical Society, vol.28, no.3, 2024 (SCI-Expanded)
- VII. **GREEN CHEMISTRY APPROACHES TO EXTRACTING CALCIUM PHOSPHATE FROM FISH BONE WASTES**
ÇARDAKLI İ. S., Zidan A.
Ceramics - Silikaty, vol.68, no.4, pp.565-572, 2024 (SCI-Expanded)
- VIII. **Bioglass-polymer composite scaffolds for bone tissue regeneration: a review of current trends**
Motameni A., Çardaklı İ. S., Gürbüz R., Alshemary A. Z., Razavi M., Farukoğlu Ö. C.
International Journal of Polymeric Materials and Polymeric Biomaterials, vol.73, no.7, pp.600-619, 2024 (SCI-Expanded)
- IX. **STRUCTURAL CHARACTERISATIONS AND THERMAL PROPERTIES OF POTASSIUM-ENRICHED MESOPOROUS 45S5 BIOGLASS NANOPARTICLES**
Alshemary A. Z., Naser A. A., Haidary S. M., ÇARDAKLI İ. S.
CERAMICS-SILIKATY, no.3, pp.353-359, 2024 (SCI-Expanded)
- X. **Preparation and characterization of mesoporous Lanthanum-doped bioactive glass nanoparticles**
Ashemary A., Haidary S., Muhammed Y., ÇARDAKLI İ. S.
Digest Journal of Nanomaterials and Biostructures, vol.18, no.2, pp.681-688, 2023 (SCI-Expanded)
- XI. **Microstructure analysis and thermal stability of Mg²⁺/Sr²⁺/SO₄²⁻ ions doped hydroxyapatite bionanomaterials**
Alshemary A., Muhammed Y., ÇARDAKLI İ. S., Marandi A.
Digest Journal of Nanomaterials and Biostructures, vol.18, no.1, pp.1-10, 2023 (SCI-Expanded)
- XII. **CHARACTERISATION AND IN VITRO BIOACTIVITY OF HYDROXYAPATITE EXTRACTED FROM CARP FISH BONES FOR BIOMEDICAL APPLICATIONS**
Challoob D. A., Saleh A. T., Alshemary A., Çardaklı İ. S.
CERAMICS - SILIKATY, vol.67, no.1, pp.81-86, 2023 (SCI-Expanded)
- XIII. **Refinement of primary carbides in AISI DC 53 cold work tool steel by thin section copper permanent mould casting and water atomization**
Çardaklı İ. S., KALKANLI A.
International Journal of Cast Metals Research, vol.32, no.3, pp.145-153, 2019 (SCI-Expanded)

- XIV. **Effect of solidification rate on microstructure and primary carbides of AISI DC 53 cold work tool steel**
Çardaklı İ. S., KALKANLI A.
China Foundry, vol.16, no.3, pp.211-216, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Usage of boroxide and ulexite ores in ferromanganese production**
Kocadağistan M. E., Aysen M. Z., Çardaklı İ. S.
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.13, no.1, pp.74-83, 2024 (Peer-Reviewed Journal)
- II. **Preparation, Characterization and Optical Analysis of Chromium Doped 45S Bioactive Glass-Ceramic**
ÇARDAKLI İ. S.
JOURNAL OF BIOMIMETICS BIOMATERIALS AND BIOMEDICAL ENGINEERING, pp.59-66, 2024 (ESCI)
- III. **Modified 9K Medium for Ore Bioleaching**
Kocadağistan M. E., Çardaklı İ. S., Benkli Y. E.
International Journal of Earth Sciences Knowledge and Applications, vol.5, no.1, pp.33-38, 2023 (Peer-Reviewed Journal)
- IV. **Lanthanum Oxide Doped Calcium Silicate Particles: Preparation and Characterization**
Çardaklı İ. S.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.25, pp.255-261, 2021 (Peer-Reviewed Journal)
- V. **Production of high carbon ferromanganese from a manganese ore located in Erzincan**
Çardaklı I. S., Sevinç N., ÖZTÜRK T.
Turkish Journal of Engineering and Environmental Sciences, vol.35, no.1, pp.31-38, 2011 (Scopus)

Supported Projects

- ÇARDAKLI İ. S., İPEK ÇOBAN G., ÇAKICI B., Project Supported by Higher Education Institutions, Otomatik Sabitlenen Octopus Atrium Ekartörü, 2023 - 2024
- ÇARDAKLI İ. S., İPEK ÇOBAN G., ATICI İ., Project Supported by Higher Education Institutions, ANTİMİKROBİYEL NANO PARTİKÜL TAKVİYELİ KALICI AVF İĞNESİ, 2023 - 2024
- ÇARDAKLI İ. S., ATMACA N., Project Supported by Higher Education Institutions, Kendiliğinden Uyaran Lateks Ameliyat Eldiveni, 2023 - 2024
- ÇARDAKLI İ. S., İPEK ÇOBAN G., ÇAKICI B., Project Supported by Higher Education Institutions, Aortic Açılı Punch, 2023 - 2024
- ÇARDAKLI İ. S., İPEK ÇOBAN G., ÇAKICI B., Project Supported by Higher Education Institutions, Atravmatik Carotis Bulldog Klemp, 2023 - 2024
- İPEK ÇOBAN G., DENİZ R., ÇARDAKLI İ. S., Project Supported by Higher Education Institutions, Basınç Yarası Önleyici Hasta Bezi, 2022 - 2024

Patent

- İpek Çoban G., Çardaklı İ. S., BASINÇ YARASI ÖNLEYİCİ HASTA BEZİ, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2022/022053 , Standard Registration, 2022

Metrics

Publication: 24

Citation (WoS): 10

Citation (Scopus): 33

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