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Education Information

Doctorate, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, Turkey 2023 - Continues Postgraduate, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, Turkey 2021 - 2023 Undergraduate, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, Turkey 2016 - 2021

Foreign Languages

English, C1 Advanced

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Development of a Near-Zero-Waste Valorization Concept for Waste NdFeB Magnets: Production of Antimicrobial Fe Alginate Beads via Adsorption and Recovery of High-Purity Rare-Earth Elements Emil-Kaya E., Uysal E., Dikmetaş D. N., Karbancıoğlu Güler H. F., Gürmen S., Friedrich B. ACS Omega, vol.9, no.6, pp.6442-6454, 2024 (SCI-Expanded)
- II. Pulse ultrasonication leaching approach for selective Li leaching from spent LFP cathode material Uysal E., Yeşiltepe Özçelik D., Gürmen S.
 - CANADIAN METALLURGICAL QUARTERLY, vol.1, no.1, pp.1, 2023 (SCI-Expanded)
- III. Comparison of production of mixed rare earth oxide (Nd/Pr oxide) powders by different precipitation agents from NdFeB magnets' water leaching

Emil E., Uysal E., Gürmen S.

CANADIAN METALLURGICAL QUARTERLY, vol.1, no.1, pp.1, 2023 (SCI-Expanded)

IV. Nd Recovery from Wastewater with Magnetic Calcium Alginate ((1,4)- β -d-Mannuronic Acid and α -L-Guluronic Acid) Hydrogels

Uysal E., Emil E., Yeşiltepe Özçelik D., Gürmen S.

ACS OMEGA, vol.1, no.1, pp.1-17, 2023 (SCI-Expanded)

V. The production of pH indicator Ca and Cu alginate ((1,4)- β -d-mannuronic acid and α -l-guluronic acid) cryogels containing anthocyanin obtained via red cabbage extraction for monitoring chicken fillet freshness

Dikmetaş D. N., Uysal E., Karbancıoğlu Güler H. F., Gürmen S.

International Journal of Biological Macromolecules, vol.231, 2023 (SCI-Expanded)

VI. Hydrometallurgical recycling of waste NdFeB magnets: design of experiment, optimisation of low concentrations of sulphuric acid leaching and process analysis

Uysal E., Al S., Emil-Kaya E., Stopic S., Gürmen S., Friedrich B.

CANADIAN METALLURGICAL QUARTERLY, vol.62, no.1, pp.107-118, 2023 (SCI-Expanded)

VII. Synthesis of calcium, copper and iron alginate hydrogels doped with Ag nanoparticles produced by chemical reduction method

Uysal E., Ateş S., Safaltın Ş., Dikmetaş D. N., Devecioğlu D., Karbancıoğlu Güler H. F., Gürmen S. MATERIALS CHEMISTRY AND PHYSICS, vol.281, 2022 (SCI-Expanded)

Articles Published in Other Journals

I. Silver-doped alginate cryogels as new generation current collectors for lithium-ion batteries: Structural and electrochemical analysis

Cetin Y. C., Dursun H. N., Demir P., Uysal E., Ozcelik-Yesiltepe D., Ates M. N., Gürmen S. Energy Storage, vol.6, no.2, 2024 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. IRON REMOVAL FROM NDFEB WASTE MAGNET SOLUTIONS USING SODIUM ALGINATE SOLUTION Uysal E., Emil E., Al S., Gürmen S.
 - 21 International Metallurgy and Materials Congress, İstanbul, Turkey, 6 October 08 November 2022, pp.112-113
- II. RECYCLING OF CORRODED NDFEB MAGNETS BY HYDROMETALLURGICAL ROUTE
 Emil E., Uysal E., Stopic S., Gürmen S., Friedrich B.
 INTERNATIONAL SOLVENT EXTRACTION CONFERENCE 2022, Gothenburg, Sweden, 26 30 September 2022, pp.1

Supported Projects

Gürmen S., TÜBİTAK International Multi-Cooperation Project, Sustainable Recovery of Rare Earth Elements (Nd, Dy,Pr) from spent NdFeB magnets, 2021 - 2023

Metrics

Publication: 10
Citation (WoS): 1
Citation (Scopus): 20
H-Index (WoS): 1
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