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Personal Information

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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2021 - Continues
Postgraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2019 - 2021

Undergraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2014 - 2019

Research Areas

Engineering and Technology

Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Enhancing the efficiency of sodium borohydride hydrolysis with a novel CoB-Triton catalyst**
Kaya C., ÖZDEMİR J. H., ELÇİÇEK H., ÖZDEMİR O. K., KÖKKÜLÜNK G., ÜNLÜGENÇOĞLU K.
International Journal of Hydrogen Energy, vol.51, pp.489-503, 2024 (SCI-Expanded)
- II. **Vegetable oil-based epoxy coating materials for self-healing and anticorrosive applications**
OKTAY B., Türkcan J. H., ÖZDEMİR O. K., KAYAMAN APOHAN N.
Macromolecular Research, vol.31, no.11, pp.1077-1086, 2023 (SCI-Expanded)
- III. **Does intramedullary elastic nail augmentation increase resistance to bending stress in plate fixation of long bones? A biomechanical study on lamb cadaveric femurs**
Eren E., Büyükdoğan H., Ertürk C., Özdemir J. H., Keleşoğlu E.
Joint Diseases and Related Surgery, vol.34, no.2, pp.1-8, 2023 (SCI-Expanded)
- IV. **Investigation of the effects of supporting material modification on the nucleation behavior of Pt catalysts**
Özdemir J. H., Erol M., Öztürk K., Özdemir O. K.
International Journal of Hydrogen Energy, vol.48, no.60, pp.22967-22977, 2023 (SCI-Expanded)
- V. **Development of Biomimetic Hydroxyapatite Containing Dental Restorative Composites**
AYDINOĞLU A., Türkcan J. H., Keleşoğlu E., HAZAR A. B.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.47, no.5, pp.6667-6678, 2022 (SCI-Expanded)

VI. Optimization of synthesis parameters for catalytic performance of Ni-B catalysts using response surface methodology

TÜRKCAN J. H., ELÇİÇEK H., ÖZDEMİR O. K.

International Journal of Hydrogen Energy, vol.46, no.11, pp.7903-7911, 2021 (SCI-Expanded)

Articles Published in Other Journals

I. GRAFEN OKSİT TAKVİYESİNİN AA1050 METAL MATRİSLİ KOMPOZİTLERİN ELEKTRİKSEL DİRENÇ VE KOROZYON ÖZELLİKLERİNE ETKİSİ

TÜRKCAN J. H., ÖZDEMİR O. K., SARAÇ M. F.

Mühendislik Bilimleri ve Tasarım Dergisi, vol.10, no.4, pp.1272-1277, 2022 (Peer-Reviewed Journal)

II. Development of Ni-Ti-B Ternary Catalysts for NaBH₄ Hydrolysis Reaction and Evaluation of their Catalytic Activities

TÜRKCAN J. H., ÖZDEMİR O. K.

Journal of Interfaces, Thin films, and Low dimensional systems, 2021 (Peer-Reviewed Journal)

Books & Book Chapters

I. 7 - Poly(ethylene glycol) based biomaterials

ÖZDEMİR J. H., CİNER Ş. P., HAZAR A. B.

in: Handbook of Polymers in Medicine, Masoud Mozafari, Narendra Pal Singh Chauhan, Editor, Elsevier, pp.219-242, 2023

Refereed Congress / Symposium Publications in Proceedings

I. Optimizing Pt/C Electrocatalyst Performance with Surfactant Modification: A Comparative Analysis
ELÇİÇEK H., ÖZDEMİR J. H., ÖZDEMİR O. K., AKKAŞ N.

The Seventh International Hydrogen Technologies Congress (IHTEC-2023), Sakarya, Turkey, 10 - 12 May 2023

II. Effect of Precipitation Hardening Parameters on Mechanical and Corrosion Properties of 7075 Aluminium Alloy

ÖZTÜRK K., ÖZDEMİR J. H., ÖZDEMİR O. K.

International Conference On Emerging Sources In Science, İstanbul, Turkey, 27 May 2022, pp.157-164

III. Synthesis of Boron-Doped CoS₂ (B-CoS₂) Electrocatalysts

Özdemir J. H., Özdemir O. K.

3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2021), Ankara, Turkey, 15 - 17 December 2021, pp.19

IV. EXAMINATION OF CITRIC ACID EFFECT ON PHASE STABILITY OF BONE GRAFT AND DETERMINATION OF OPTIMUM GEL/POWDER RATIOS

Türkcan J. H., Hazar A. B.

MAS 14th INTERNATIONAL EUROPEAN CONFERENCE ON MATHEMATICS, ENGINEERING, NATURAL&MEDICAL SCIENCES, Budapest, Hungary, 26 - 28 March 2021, pp.259-264

V. EVALUATION OF THE EFFECT OF NCC ON PHASE STABILITY OF HA-BASED INJECTABLE BONE GRAFTS

Türkcan J. H., Hazar A. B.

UMTEB INTERNATIONAL CONGRESS ON VOCATIONAL & TECHNICAL SCIENCES-X, Nakhchivan, Azerbaijan, 16 - 18 October 2020, pp.76

VI. EVALUATION OF MAGNETIC FIELD EFFECT ON REDUCTION OF Ni-B CATALYSTS AND NaBH₄ HYDROLYSIS REACTIONS

Türkcan J. H., Sağır K., Özdemir O. K.

UMTEB INTERNATIONAL CONGRESS ON VOCATIONAL & TECHNICAL SCIENCES-X, Nakhchivan, Azerbaijan, 16 - 18 October 2020, pp.83

VII. INVESTIGATION OF THE REDUCTION OF Co-B CATALYSTS UNDER MAGNETIC FIELD AND THE EFFECT OF NaBH₄ HYDROLYSIS REACTION

Sağır K., Türkcan J. H., Özdemir O. K.

UMTEB INTERNATIONAL CONGRESS ON VOCATIONAL & TECHNICAL SCIENCES-X, Nakhchivan, Azerbaijan, 16 - 18 October 2020, pp.82

VIII. Electrochemical Activation Of Carbon Papers And Investigation Of The Effect On The Properties Of Pt Catalysts

Sağır K., Türkcan J. H., Özdemir O. K.

ICSEEC-International Conference on Sustainable Energy and Energy Calculations, İstanbul, Turkey, 4 - 05 September 2020, pp.26

Supported Projects

DİNCER İ., FİGEN H. E., KANTÜRK FİGEN A., ERDEMİR D., BİÇER Y., AYDIN M. İ., COŞKUNER FİLİZ B., JAVANI N., BOYNUEĞRİ A. R., SORGULU F., et al., Project Supported by Higher Education Institutions, Temiz Hidrojen Enerji Teknolojilerinin Geliştirilmesi, 2023 - Continues

Kökkülünk G., Özdemir O. K., Elçiçek H., Karagöz Y., TUBITAK Project, Gemilerde Sıfır Karbon Kapsamında Motora Entegre Hidrojen Üretim Sistemi Uygulaması , 2022 - 2025

Özdemir J. H., Elçiçek H., Özdemir O. K., Akkaş N., Project Supported by Higher Education Institutions, Pt katalizörlerin elektrokimyasal performansına iyonik olmayan yüzey aktif maddelerinin etkisinin incelenmesi, 2022 - 2024

Metrics

Publication: 19

Citation (WoS): 7

Citation (Scopus): 43

H-Index (WoS): 4

H-Index (Scopus): 4