Şerzat Safaltın

Personal Information

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Metallurgical and Materials Engineering, Turkey 2018 - Continues
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Üretim Metalurjisi Ve Teknolojileri Mühendisliği, Turkey 2015 - 2018
Undergraduate, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği, Turkey 2010 - 2015

Foreign Languages

English, C1 Advanced
German, B1 Intermediate

Certificates, Courses and Trainings

IT, PRACE 2017 Winter School-Tel Aviv-Fuelling Scientific Discovery with HPC Infrastructure, Partnership For Advanced Computing in Europe, 2017
IT, Comsol Multiphysics 2-days Training, Comsol Inc., 2015

Research Areas

Technical Sciences, Mechanical Engineering, Mechanical, Finite Element Methods, Thermodynamics, Computational fluid dynamics, Metallurgical and Materials Engineering, Material science and engineering, Nanomaterials

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Metalurji Ve Malzeme Mühendisliği, 2017 - 2021

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

I. **Molecular dynamics simulation of size, temperature, heating and cooling rates on structural formation of Ag-Cu-Ni ternary nanoparticles (Ag-34-Cu-33-Ni-33)**
Safaltın Ş., Gürmen S.
COMPUTATIONAL MATERIALS SCIENCE, vol.183, 2020 (Journal Indexed in SCI)
II. **Oxidative degradation of Bisphenol A by carbocatalytic activation of persulfate and peroxymonosulfate with reduced graphene oxide**

Olmez-Hanci T., Arslan-Alaton I., Gürmen S., GAFARLI I., Khoei S., Safaltın Ş., Yesiltepe Ozcelik D.
Journal of Hazardous Materials, vol.360, pp.141-149, 2018 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

I. **FeNiCoCu Yüksek Entropi Alaşım Nano Partiküllerin Aeresol Tekniği İle Üretimi**
KÜÇÜKELYAS B., SAFALTIN Ş., GÜRMEN S.
Metalurji Dergisi, 2017 (National Non-Refereed Journal)

II. **DEMİR GRUBU (FeNiCo) ALAŞIM NANO PARTİKÜLLERİNİN YAKIT HÜCRELERİNDE KULLANIMINA YÖNELİK ELEKTROT TASARIMI VE MODELLEME ÇALIŞMALARI**
Safaltın Ş., Küçükelyas B., İslamoğlu M., Toparlı Ç., Gürmen S.
Metalurji Dergisi, no.176, pp.26-32, 2015 (National Non-Refereed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Realization of Four-Terminal Switching Lattices: Technology Development and Circuit Modeling**
Safaltın Ş., Gencer O., Morgül M. C. , Aksoy L., Gürmen S., Moritz C. A. , Altun M.
Design, Automation & Test in Europe Conference & Exhibition (DATE), Florence, Italy, 25 - 29 March 2019, pp.504-509

II. **Reduced Graphene Oxide/FeNiCoCu Catalyst Materials Production, Characterization for PEMFC Its Electrochemical Modelling Studies, and Performance Comparison**
Tarı D., ATEŞ S., SAFALTIN Ş., KÜÇÜKELYAS B., YEŞİLTEPE D., GÜRMEN S.
International Metallurgy and Materials Congress, 25 - 27 October 2018

III. **Performance Comparison of Diff erent Alloy Particles as Catalyst Materials for PolymerElectrolyte Membrane Fuel Cells**
ATEŞ S., Tarı D., SAFALTIN Ş., KÜÇÜKELYAS B., YEŞİLTEPE D., GÜRMEN S.
International Metallurgy and Materials Congress, 25 - 27 October 2018

IV. **Design and Electrochemical Modeling of FeNiCoCu High Entropy Alloy Particles as New Electrode Catalyst Material for Fuel Cell Application**
Safaltın Ş.
Euromat 2017, Selanik, Greece, 17 - 22 September 2017, pp.1

V. **Production of High Refractory Y2O3 Submicron Particles by the Ultrasonic Spray Pyrolysis (USP) and Sol-Gel Methods**
Arslan D., Tüysüz O., Eker T., Yudar E., Emil E., Safaltın Ş., Gürmen S.
18th International Metallurgy & Materials Congress, İstanbul, Turkey, 29 September - 01 October 2016, pp.276-278

VI. **NUMERICAL SIMULATION OF RESIDUAL STRESSES IN AL 5083 SLAB BASED ON FINITE VOLUME METHOD**
Safaltın Ş., Gürmen S.
18th International Metallurgy & Materials Congress, İstanbul, Turkey, 29 September - 01 October 2016, pp.630-633

VII. **Production and structural characterization of Y2O3 Nanoparticles by Ultrasonic Spray Pyrolysis Technique**
Emil E., Çakmak T., Safaltın Ş., Gürmen S.
Porous Powder Materials 2015, İzmir, Turkey, 15 - 18 September 2015, pp.40-44

Supported Projects

Gürmen S., Safaltın Ş., Project Supported by Higher Education Institutions, Moleküler Dinamik Simülasyon MDS Yöntemi İle AgCuNi Üçlü Alaşım Partiküllerinin Faz Davranışlarının ve Yapısal Özelliklerinin İncelenmesi, 2018 - 2019
Safaltın Ş., Project Supported by Other Official Institutions, SELEKTİF LAZER SİNTERLEME ÇOK KATMANLI ÜRETİM TEKNOLOJİSİ İÇİN YÜKSEK SAFLIKTA POLİMER TOZU ÜRETİMİ, 2015 - 2017

Patent

Altun M., Safaltın Ş., Çevik İ., CMOS compatible device based on four-terminal switching lattices, Patent, CHAPTER H Electricity, The Invention Registration Number: 10720522 , Initial Registration, 2020

Edit Congress and Symposium Activities

Euromat 2017, Attendee, Thessaloníki, Greece, 2017
PRACE 2017 Winter School-Tel Aviv-Fuelling Scientific Discovery with HPC Infrastructure, Attendee, Tel Aviv-Yafo, Israel, 2017
18th International Metallurgy and Materials Congress, Attendee, İstanbul, Turkey, 2016
International Porous and Powder Materials Symposium and Exhibition PPM 2015, Attendee, İzmir, Turkey, 2015

Citations

Total Citations (WOS):20
h-index (WOS):2

Non Academic Experience

Business Establishment Private, Koguma Toz Polimer Tic. San. Ltd. Şti.