

Şerzat Safaltın

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-4452-2018

ScopusID: 57203280281

Yoksis Researcher ID: 264422

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, Istanbul Technical University, 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

Published journal articles indexed by SCI, SSCI, and AHCI

- 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 (SCI-Expanded)
- 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 (SCI-Expanded)

Articles Published in Other Journals

- I. **FeNiCoCu Yüksek Entropi Alaşım Nano Partiküllerin Aeresol Tekniği İle Üretimi**
KÜÇÜKELYAS B., SAFALTIN Ş., GÜR MEN S.
Metalurji Dergisi, 2017 (Non Peer-Reviewed 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 (Non Peer-Reviewed 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., GÜR MEN S.
International Metallurgy and Materials Congress, 25 - 27 October 2018
- III. **Performance Comparison of Different Alloy Particles as Catalyst Materials for Polymer Electrolyte Membrane Fuel Cells**
ATEŞ S., Tarı D., SAFALTIN Ş., KÜÇÜKELYAS B., YEŞİLTEPE D., GÜR MEN 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 , Standard Registration, 2020

Metrics

Publication: 27

Citation (WoS): 21

Citation (Scopus): 108

H-Index (WoS): 2

H-Index (Scopus): 4

Congress and Symposium Activities

Euromat 2017, Attendee, Thessaloniki, 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

Non Academic Experience

İTÜNOVA TTO A.Ş.

Koguma Toz Polimer San. ve Tic. Ltd. Şti.

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