Prof. Ercan KARAKÖSE

Personal Information

Email: ekarakose@erciyes.edu.tr
Web: https://avesis.erciyes.edu.tr/ekarakose

Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 2005 - 2010
Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Turkey 2000 - 2004
Undergraduate, Erciyes University, Fen Fakültesi, Fizik Bölümü, Turkey 1996 - 2000

Certificates, Courses and Trainings

Education Management and Planning, Eğitim Yönetimi Semineri, M.E.B. Hizmetiçi Eğitim Dairesi Başkanlığı, 2007
Other, The Professional Metalographer, Struers Company, 2007

Dissertations

Doctorate, Al Esaslı Ağırlıkça %8Ni, %5Nd, %XSi (X=4, 8, 12) İçeren Alaşımların Melt Spinning Yöntemiyle Üretimi ve Karakterizasyonu, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 2010
Postgraduate, Melt Spining Metoduyla Ağırlıkça %91Al-%6Ni-%2Cu-%1Si Alaşımının Üretilmesi ve Üretilen Numunelerin Fiziksel Özelliklerinin İncelenmesi, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 2004

Research Areas

Basic Sciences, Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties

Academic Titles / Tasks

Associate Professor, Erciyes University, Kayseri Meslek Yülsekokulu, Motorlu Araçlar Ve Ulaştırma Teknolojisi, 2017 - Continues
Associate Professor, Cankiri Karatekin University, Faculty Of Scıence, Department Of Physıcs, 2013 - 2017
Assistant Professor, Cankiri Karatekin University, Faculty Of Scıence, Department Of Physıcs, 2010 - 2010

Academic and Administrative Experience

Çankırı Karatekin Üniversitesi, 2016 - 2018
Çankırı Karatekin Üniversitesi, Fen Fakültesi, 2014 - 2018
Çankırı Karatekin Üniversitesi, 2016 - 2017
Çankırı Karatekin Üniversitesi, Mühendislik Fakültesi, 2016 - 2017
Çankırı Karatekin Üniversitesi, 2015 - 2017

Erciyes Üniversitesi, 2014 - 2016

Advising Theses

KARAKÖSE E., YÜKSEK DEĞERLİKLİ METAL KATKILI ZNO İNCE FİLMLERİNİN ULTRASONİK SPREY PİROLİZ YÖNTEMİ İLE ÜRETİLMESİ, ELEKTRİKSEL VE OPTİK ÖZELLİKLERİNİN BELİRLENMESİ, Postgraduate, Ç.Songür(Student), 2018

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Microstructural and mechanical properties of melt-spun Al-3Ni-3Si alloy**
KARAKÖSE E., KESKİN M.
MATERIALS LETTERS, vol.286, 2021 (SCI-Expanded)

II. **The Morphological Properties and Microhardness of As-Cast and Melt-Spun Al-5Zn-2.5Mg Alloy**
Karakose E., IBRAHIM A. M., KESKİN M.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, no.6, pp.2645-2652, 2018 (SCI-Expanded)

III. **Tm-doped ZnO nanorods as a TCO for PV applications**
Colak H., KARAKÖSE E.
JOURNAL OF RARE EARTHS, vol.36, no.10, pp.1067-1073, 2018 (SCI-Expanded)

IV. **Effect of consumption of the sol-gel deposited ZnO seed layer on the growth and properties of high quality ZnO nanorods**
Colak H., KARAKÖSE E., Kartopu G.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.14, pp.11964-11971, 2018 (SCI-Expanded)

V. **Structural, electrical, and antimicrobial characterization of green synthesized ZnO nanorods from aqueous Mentha extract**
Karakose E., Colak H.
MRS COMMUNICATIONS, vol.8, no.2, pp.577-585, 2018 (SCI-Expanded)

VI. **Production of CNT-bearing melt-spun Al-2Sc-0.05CNT alloys**
Kilicaslan M. F., Karakose E.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.738, pp.182-187, 2018 (SCI-Expanded)

VII. **PRODUCTION OF MELT-SPUN Al-20Si-5Fe ALLOY AND BORON CARBIDE (B4C) COMPOSITE MATERIAL**
Kilicaslan M. F., Uzun A., KARAKÖSE E.
ARCHIVES OF METALLURGY AND MATERIALS, vol.63, no.2, pp.597-600, 2018 (SCI-Expanded)

VIII. **Structural and optical properties of ZnO nanorods prepared by spray pyrolysis method**
Karakose E., Colak H.
ENERGY, vol.140, pp.92-97, 2017 (SCI-Expanded)

IX. **High optoelectronic and antimicrobial performances of green synthesized ZnO nanoparticles using Aesculus hippocastanum**
Colak H., Karakose E., DUMAN F.
ENVIRONMENTAL CHEMISTRY LETTERS, vol.15, no.3, pp.547-552, 2017 (SCI-Expanded)

X. **Structural, electrical and optical properties of green synthesized ZnO nanoparticles using aqueous extract of thyme (Thymus vulgaris)**
Colak H., Karakose E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, no.16, pp.12184-12190, 2017 (SCI-Expanded)

XI. **Green synthesis and antimicrobial activity of ZnO nanostructures Punica granatum shell extract**
Karakose E., Colak H., DUMAN F.
GREEN PROCESSING AND SYNTHESIS, vol.6, no.3, pp.317-323, 2017 (SCI-Expanded)

XII. **Properties of ZnO nanostructures produced by mechanochemical-solid state combustion method using different precursors**
Colak H., Karakose E., Derin Y.
MATERIALS CHEMISTRY AND PHYSICS, vol.193, pp.427-437, 2017 (SCI-Expanded)

XIII. **Green synthesis and characterization of nanostructured ZnO thin films using Citrus aurantifolia (lemon) peel extract by spin-coating method**
Colak H., Karakose E.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.690, pp.658-662, 2017 (SCI-Expanded)

XIV. **Effect of substrate temperature on the structural properties of ZnO nanorods**
Karaköse E., Çolak H.
Energy, vol.141, pp.50-55, 2017 (SCI-Expanded)

XV. **Effect of cooling rate and Mg addition on the structural evaluation of rapidly solidified Al-20wt%Cu-12wt%Fe alloy**
Karakose E., Colak H.
MATERIALS CHARACTERIZATION, vol.121, pp.68-75, 2016 (SCI-Expanded)

XVI. **Formation of novel rice-like intermetallic phases and changes in the mechanical, microstructural and electrical properties of Sn-5Sb alloys with addition Ag and Bi**
Karakose E., Kilicaslan M. F., Colak H.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.655, pp.378-388, 2016 (SCI-Expanded)

XVII. **Microstructure properties and microhardness of rapidly solidified Al64Cu20Fe12Si4 quasicrystal alloy**
Karakose E., KESKİN M.
METALS AND MATERIALS INTERNATIONAL, vol.18, no.2, pp.257-263, 2012 (SCI-Expanded)

XVIII. **Microhardness and morphologic characteristics of rapidly solidified Al-12Si-8Ni-5Nd alloy**
KARAKÖSE E., KESKİN M.
METALS AND MATERIALS INTERNATIONAL, vol.16, no.3, pp.383-391, 2010 (SCI-Expanded)

XIX. **Morphological characteristic of the conventional and melt-spun Al-10Ni-5.6Cu (in wt.%) alloy**
KARAKÖSE E., KESKİN M.
MATERIALS CHARACTERIZATION, vol.60, no.12, pp.1569-1577, 2009 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Structure and mechanical properties of Al-3Fe rapidly solidified alloy**
KARAKÖSE E., KESKİN M.
International Conference on Advances in Materials and Processing Technologies, Paris, France, 24 - 27 October 2010, vol.1315, pp.645-646

Supported Projects

KARAKÖSE E., TUBITAK Project, Yüksek Değerlikli Metal Katkılı Zno İnce Filmlerinin Ultrasonik Sprey Piroliz Yöntemi İle Üretilmesi, Elektriksel Ve Optik Özelliklerinin Belirlenmesi, 2015 - 2017

Scientific Refereeing

• JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIAL JOIP-D-13-00052), SCI Journal, February 2017
JOURNAL OF ALLOYS AND COMPOUNDS (JALCOM-D-12-01634, JALCOM-D-12-05999, JALCOM-D-14-05533, JALCOM-D-14-05533, JALCOM-D-14-07719, JALCOM-D-15-01673, JALCOM-D-15-08738), SCI Journal, January 2017

• JOURNAL OF ALLOYS AND COMPOUNDS (JALCOM-D-16-02073, JALCOM-D-16-06918, JALCOM-D-16-09734, JALCOM-D-17-03505), SCI Journal, January 2017
• The Journal of Physical Chemistry,jp-2017-02281e, SCI Journal, January 2017
• INTERNATIONAL JOURNAL OF MODERN PHYSICS B (JPB20074538, JPB20074119, JPB20073808R1, JPB20074538, JPB20074547R1), SCI Journal, January 2017
Journal of Non-Crystalline Solids (OC-D-17-00701R2), SCI Journal, January 2017
• INTERNATIONAL JOURNAL OF MATERIALS RESEARCH (MR4205), SCI Journal, February 2015
• MATER SCI and ENG. A (MSEA-D-13-02315, D-14-02947, D-15-075246), SCI Journal, February 2015
• MATER. CHEM. PHYS.(D-10-03373R1, D-10-03373, D-10-01236, D-09-03375, D-09-02802, D-09-01293R1, D-09-01293), SCI Journal, February 2015
• MATERIALS CHARACTERIZATION (MTL-9726R1, MTL-6020R1), SCI Journal, February 2015
J. MATER. PROCESS. TECH.(D-07-01386R1, D-07-00037), SCI Journal, February 2014

Metrics

Publication: 20
Citation (WoS): 116
Citation (Scopus): 108
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