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Personal Information

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International Researcher IDs
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Education Information

Post Doctorate, University of Illinois at Urbana-Champaign, Materials Science and Engineering, United States Of America 2018 - 2019
Doctorate, Yildiz Technical University, Faculty Of Chemıcal And Metallurgıcal Engıneerıng, Department Of Metallurgical And Materials Engineering, Turkey 2010 - 2015
Postgraduate, Yildiz Technical University, Faculty Of Chemıcal And Metallurgıcal Engıneerıng, Department Of Metallurgical And Materials Engineering, Turkey 2007 - 2010
Undergraduate, Yildiz Technical University, Faculty Of Chemıcal And Metallurgıcal Engıneerıng, Department Of Metallurgical And Materials Engineering, Turkey 2003 - 2007

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Other, Spectroscopy summer school, Erzincan University Department of pharmacy, 2014
Other, COINAPO Summer School "advances in nanocomposite materials: preperation and characterization", Bucharest University, 2012
Education Management and Planning, COINAPO Characterization summer school, University of Oxford, 2011

Dissertations

Doctorate, QUANTITATIVE ANALYSIS OF CARBON NANOTUBE SUSPENSIONS, SYNTHESIS OF INORGANIC NANOSTRUCTURED MATERIALS AND THEIR CHARACTERIZATION, Yildiz Technical University, Metalurji Ve Malzeme Mühendisliği/Malzeme, 2015
Postgraduate, THE EFFECT OF CARBON NANOTUBE ADDITION ON THE STRUCTURE AND PROPERTIES OF ALUMINA BASED CERAMICS, Yildiz Technical University, Metalurji Ve Malzeme Mühendisliği/Malzeme, 2010

Research Areas

Material science and engineering, Plating, Material Characterization, Nanomaterials, Composites, nanocomposites, Engineering and Technology

Academic Titles / Tasks

Lecturer PhD, Yildiz Technical University, Rectorate, -, 2014 - Continues
Researcher, University of Illinois at Urbana-Champaign, Department of Materials Science and Engineering , 2018 - 2019
Research Assistant, Kocaeli University, Mühendislik Fakültesi, 2012 - 2014

Courses

Postgraduate
Characterization of biomaterials, Postgraduate, 2021 - 2022
Undergraduate
Technical Drawing, Undergraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Design of Porous Carbon Adsorbents from Ethylene Glycol for Selective CO2 Adsorption**
ZAMAN A. C., ÜSTÜNDAĞ C. B.
ChemistrySelect, vol.9, no.2, 2024 (SCI-Expanded)

II. **Hydroxybenzoic acid derived porous carbons for low pressure CO2 capture**
Zaman A. C.
Journal of Solid State Chemistry, vol.327, 2023 (SCI-Expanded)

III. **Sulfur-acetylacetone based solutions for precipitation of quasi-core–shell microparticles or hybrid structures**
ZAMAN A. C.
Journal of Molecular Liquids, vol.355, 2022 (SCI-Expanded)

IV. **Sulfur/oxygen-doped porous carbons via NaCl-assisted thermolysis of a molecular precursor for CO2 capture**
ZAMAN A. C., KARAASLAN Ö. F.
MATERIALS CHEMISTRY AND PHYSICS, vol.276, 2022 (SCI-Expanded)

V. **Pyrolysis of sulfonic acid substituted benzenes and investigation of CO2 capture capability of resulting carbons**
ZAMAN A. C.
JOURNAL OF SOLID STATE CHEMISTRY, vol.303, 2021 (SCI-Expanded)

VI. **A study on optimum surfactant to multiwalled carbon nanotube ratio in alcoholic stable suspensions via UV–Vis absorption spectroscopy and zeta potential analysis**
ZAMAN A. C., KAYA F., KAYA C.
CERAMICS INTERNATIONAL, vol.46, no.18, pp.29120-29129, 2020 (SCI-Expanded)

VII. **Polyol derived sulfonated solvothermal carbon for efficient dye removal from aqueous solutions**
ZAMAN A. C.
JOURNAL OF MOLECULAR LIQUIDS, vol.249, pp.892-903, 2018 (SCI-Expanded)

VIII. **Determination of of Quantity of Materials in Suspensions and in Electrophoretic Coatings by UV-Visible Absorption Spectroscopy**
Zaman A. C., Kaya C.

JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.162, no.11, 2015 (SCI-Expanded)

IX. **OH and COOH functionalized single walled carbon nanotubes-reinforced alumina ceramic nanocomposites**
Zaman A. C., Üstündağ C. B., Kaya F., Kaya C.
CERAMICS INTERNATIONAL, vol.38, pp.1287-1293, 2012 (SCI-Expanded)

X. **Electrophoretic deposition of hydrothermally synthesised Ag-TiO2 hybrid nanoparticles onto 3-D Ni filters**
Noberi C., Zaman A. C., Üstündağ C. B., Kaya F., Kaya C.
MATERIALS LETTERS, vol.67, pp.113-116, 2012 (SCI-Expanded)

XI. **Synthesis and electrophoretic deposition of hydrothermally synthesized multilayer TiO2 nanotubes on conductive filters**
Zaman A. C., Üstündağ C. B., Kaya F., Kaya C.
MATERIALS LETTERS, vol.66, pp.179-181, 2012 (SCI-Expanded)

XII. **Carbon nanotube/boehmite-derived alumina ceramics obtained by hydrothermal synthesis and spark plasma sintering (SPS)**
Zaman A. C., Üstündağ C. B., Celik A., Kara A., Kaya F., Kaya C.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.30, pp.3351-3356, 2010 (SCI-Expanded)

XIII. **Boehmite derived surface functionalized carbon nanotube-reinforced macroporous alumina ceramics**
Zaman A. C., Üstündağ C. B., Kaya C.
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.30, pp.2525-2531, 2010 (SCI-Expanded)

XIV. **3-D micro-ceramic components from hydrothermally processed carbon nanotube-boehmite powders by electrophoretic deposition**
Zaman A. C., Üstündağ C. B., Kuskonmaz N., Kaya F., Kaya C.
CERAMICS INTERNATIONAL, vol.36, no.5, pp.1703-1710, 2010 (SCI-Expanded)

Articles Published in Other Journals

I. **Carbon Dioxide Capture Properties of MgCl2 Templated Microporous Carbon from p-toluenesulfonic Acid**
Zaman A. C.
Gazi University Journal of Science, vol.35, no.1, pp.1-15, 2022 (ESCI)

Books

I. **Solid Waste Materials for Energy Storage Applications**
ZAMAN A. C., ÜSTÜNDAĞ C. B., Özerol E. A.
in: Encyclopedia of Smart Materials, Abdul-Ghani Olabi, Editor, Elsevier, pp.470-482, 2022

II. **Solid Waste Materials for Energy Storage Applications**
ÖZEROL E., ZAMAN A. C., ÜSTÜNDAĞ C. B.
in: Encyclopedia of Smart Materials, Abdul-Ghani Olabi, Editor, Elsevier, pp.470-482, 2022

Papers Published in Refereed Scientific Meetings

I. **Schiff base derived carbonaceous material separator coating for Li-S batteries**
ZAMAN A. C., Braun P. V.
9th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 22 September 2022

II. **Coupling solvothermal synthesis and pyrolysis processes to produce microporous heteroatom doped carbons from a simple organic molecule for CO2 capture**
ZAMAN A. C., KAYA C., ÜSTÜNDAĞ C. B., KAYA F.
TURKISH PHYSICAL SOCIETY 38TH INTERNATIONAL PHYSICS CONGRESS, Turkey, 31 August - 04 September 2022

III. **CO2 Capture Performance of Sulfur and Oxygen Doped Carbons Derived from a Molecular Precursor**
ZAMAN A. C.
The International Scientific Conference „Applications of Chemistry in Nanosciences and Biomaterials Engineering"., Romania, 22 - 24 June 2022

IV. **New Generation Oxide Based Functional Nanotubes Synthesis Challenges and Applications**
KAYA C., KAYA F., NOBERİ C., ZAMAN A. C.
BIT's 7th Annual World Congress of Nano Science and Technology-2017, Fukuoka, Japan, 24 - 26 October 2017

V. **Synthesis of novel oxide-based nanostructure materials for various applications**
KAYA F., ZAMAN A. C., KAYA C.
ICCE-25, ROME, 16-22 July 2017, Rome, Italy, 16 July 2017, pp.17202-17209

VI. **Synthesis and applications of various oxide-based nanostructures with controlled morphologies**
KAYA C., ZAMAN A. C., KAYA F.
ICCE-25, 16 - 22 July 2017

VII. **ESR studies of Titania Nanotubes Produced by Hydrothermal Process**
KAYA F., ZAMAN A. C., KAYA C., KAPTAN H. Y.
EMN Honk Kong Meeting, 9 - 12 December 2015

VIII. **ESR STUDIES OF TITANIA NANOTUBES PRODUCED BY HYDROTERMAL PROCESS**
KAYA F., KAYA C., ZAMAN A. C., KAPTAN H. Y.
EMN Meeting, Energy Materials Nanotechnology 2015, 9 - 12 December 2015, vol.1, pp.23

IX. **NOVEL OXİDE BASED NANOTUBES FOR STORAGEAPPLICATIONS**
KAYA C., ZAMAN A. C., NOBERİ C., KAYA F.
EMN Meeting, Energy Materials Nanotechnology 2015, 9 - 12 December 2015, vol.1, pp.10

X. **Novel oxide based nanotubes for storage applications**
KAYA C., ZAMAN A. C., KAYA F., NOBERİ C.
EMN Hong Kong Meeting 2015, 9 - 12 December 2015

XI. **Production of Green Reduced Graphene Oxide Hydroxyapatite Composites**
ÖZTÜRK E., ÖZBEK B., ZAMAN A. C.
10th European Congress of Chemical Engineering, 27 September - 01 October 2015

XII. **Stynthesis of Oxide Based Nanotubes and Nanostructures and their Antimicrobial Applications**
KAYA C., KAYA F., ZAMAN A. C., NOBERİ C.
Nanobiotechnology Days, 14 - 15 May 2015

XIII. **Fabrication of Porous Hydroxyapatite by Electrophoretic Deposition**
ÜSTÜNDAĞ C. B., Zaman A. C., Kaya F., Kaya C.
International Porous and Powder Materials Symposium and Exhibition (PPM 2013), 01 September 2013

XIV. **Hydrothermally Prepared Ceramic-Carbon Nanotube Nanocomposite Structure**
ÜSTÜNDAĞ C. B., Zaman A. C., Kaya F., Kaya C.
10th International Conference on Nanosciences & Nanotechnologies (NN13), 01 July 2013

XV. **Ag-TiO2 Nano-Powders by Hydrothermal Synthesis and Their Antimicrobial Properties**
NOBERİ C., ZAMAN A. C., ÜSTÜNDAĞ C. B., KAYA F., KAYA C., ABAMOR E. Ş., Allahverdiyev A., Bağırova M.
Nano-TR 7, İSTANBUL, 27 June - 01 July 2011

XVI. **Synthesis and characterisation of Ag-TiO2 nano-composite particles for antimicrobial applications**
NOBERİ C., ZAMAN A. C., ÜSTÜNDAĞ C. B., KAYA F., KAYA C., ABAMOR E. Ş., Allahverdiyev A., Bağırova M.
Euro Biomat 2011, Almanya, 13 - 14 April 2011

XVII. **Karbon Nanotüp Takviyeli Alümina Seramik Dişlilerin Elektrokinetik Biriktirme Yöntemiyle Üretim ve Karakterizasyonu**
ZAMAN A. C., ÜSTÜNDAĞ C. B., KAYA C.
15.Uluslararası Metalurji ve Malzeme Kongresi, 11 - 13 November 2010

Supported Projects

Avcıoğlu S., Ersoy S., Kim B. C., Zaman A. C., Kaya F., Göller G., Kaya C., Project Supported by Higher Education Institutions, FBA-2024-6093-Yerli Kaynaklar kullanılarak Otomotiv ve Savunma Sektörleri İçin Yeni Nesil Elektrikli Araçlarda Süperkapasitör Uygulamaları İçin Bor Nitrür BN ve Karbür B4C Esaslı Elektrot Malzemelerinin Üç Boyutlu Yazıcılarla 3D Geliştirilmesi, 2024 - 2025
ZAMAN A. C., ÜSTÜNDAĞ C. B., Project Supported by Higher Education Institutions, Moleküler Başlangıç Malzemelerinden Üretilen Solvotermal Karbonların Karbon Dioksit Yakalama Özelliklerinin İncelenmesi, 2021 - 2023

Metrics

Publication: 35
Citation (WoS): 106
Citation (Scopus): 162
H-Index (WoS): 7
H-Index (Scopus): 10

Scholarships

High Energy Density Miniature and Large Format Batteries, TUBITAK, 2018 - 2019