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International Researcher IDs

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Publons / Web Of Science ResearcherID: GEA-0532-2022

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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 Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2010 - 2015

Postgraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey 2007 - 2010

Undergraduate, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, 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: preparation 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

Technical Drawing, Undergraduate, 2021 - 2022

Characterization of biomaterials, Postgraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

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

- IX. 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)
- X. 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)
- XI. 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)
- XII. 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)
- XIII. 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 & Book Chapters

- 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

Refereed Congress / Symposium Publications in Proceedings

- 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 HYDROTHERMAL 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 OXIDE 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

Metrics

Publication: 33

Citation (WoS): 106

Citation (Scopus): 139

H-Index (WoS): 7

H-Index (Scopus): 8

Scholarships

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