

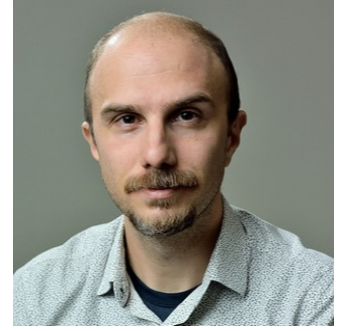
## Assoc. Prof. Ali Can ZAMAN

### Personal Information

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### International Researcher IDs

ScholarID: CoHCTKkAAAAJ

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

ScopusID: 36244839100

Yoksis Researcher ID: 192095

### 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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-TiO<sub>2</sub> 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 TiO<sub>2</sub> 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 MgCl<sub>2</sub> 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 CO<sub>2</sub> 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. CO<sub>2</sub> 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 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-TiO<sub>2</sub> 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-TiO<sub>2</sub> 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