

## Assoc. Prof. SİMGE ÇINAR AYGÜN

### Personal Information

**Office Phone:** [+90 312 210 5937](tel:+903122105937)

**Email:** [csimge@metu.edu.tr](mailto:csimge@metu.edu.tr)

**Web:** [https://Orta Doğu Teknik Üniversitesi](https://OrtaDoğuTeknikÜniversitesi)

**Address:** Çankaya, Ankara

### International Researcher IDs

ScholarID: 3tRCV0IAAAAJ

ORCID: 0000-0003-3098-2888

Publons / Web Of Science ResearcherID: C-2509-2015

ScopusID: 55183797700

Yoksis Researcher ID: 264714

### Education Information

Doctorate, Iowa State University of Science and Technology, Materials Science And Engineering, United States Of America  
2010 - 2013

Postgraduate, Middle East Technical University, Kimya Mühendisliği, Turkey 2008 - 2009

Undergraduate, Middle East Technical University, Kimya Mühendisliği, Turkey 2003 - 2008

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Entrepreneurship, Berkeley – Growth Circuit LabsOut Silicon Valley Program, University of California, Berkeley, 2018

Entrepreneurship, Berkeley – Growth Circuit Accelerator Program, University of California, Berkeley, 2018

Vocational Training, ODTÜ Yeni Öğretim Üyeleri için Akademik Gelişim Programı (AGEP) , Orta Doğu Teknik Üniversitesi, 2017

### Dissertations

Doctorate, Rheological Behavior of Oxide Nanopowder Suspensions, Iowa State University Of Science And Technology, Materials Science And Engineering, Materials Science And Engineering, 2013

Postgraduate, Synthesis of silver nanoparticles, and cable like structures through coaxial electrospinning, Middle East Technical University, Graduate School of Natural and Applied Sciences, Kimya Mühendisliği, 2009

### Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Ceramic Materials, Polymeric Materials, Nanomaterials, Engineering and Technology

## Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2017 - Continues

## Courses

Fundamentals of Materials Science and Engineering, Undergraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017

Colloidal Foundations of Nanoscience, Postgraduate, 2020 - 2021

Materials Engineering Design II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Thermodynamics of Materials I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Materials Processing Laboratory, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018

Materials Laboratory, Undergraduate, 2018 - 2019, 2017 - 2018

Characterization of Materials, Postgraduate, 2019 - 2020

## Advising Theses

Çınar Aygün S., Synthesis of bismuth-tin core-shell particles and their use in photocatalytic and X-ray shielding applications, Postgraduate, O.DİNÇER(Student), 2023

Ünalán H. E., Çınar Aygün S., 3D-PRINTED HEXAGONAL BORON NITRIDE NANOSHEETS/POLYLACTIC ACID NANOCOMPOSITES, Postgraduate, M.CANER(Student), 2022

Çınar Aygün S., Maviş B., UTILIZATION OF COLLOIDAL PRINCIPLES IN CARBON COATING OF ELECTROACTIVE MATERIALS, Postgraduate, Y.AŞKAR(Student), 2022

Ünalán H. E., Çınar Aygün S., SENSITIVITY IMPROVEMENT STRATEGIES AND APPLICATIONS FOR FLEXIBLE AND WEARABLE CAPACITIVE PRESSURE SENSORS, Postgraduate, M.ÖGEDAY(Student), 2022

Çınar Aygün S., SYNTHESIS OF METALLIC PARTICLES WITH ANISOTROPIC MORPHOLOGIES VIA SOLIDIFICATION PATH, Postgraduate, M.ULUSEL(Student), 2022

Çınar Aygün S., Maviş B., SYNTHESIS OF DISPERSIBLE LiFePO<sub>4</sub> PARTICLES WITH CONTROLLED SIZE AND MORPHOLOGY VIA POLYOL ROUTE, Postgraduate, E.COŞKUN(Student), 2022

ÇINAR S., Fabrication of high density alumina ceramics from nanopowders through colloidal processing., Postgraduate, H.Utkucan(Student), 2020

ÇINAR S., Colloidal stabilization of LTA type zeolites in ethanolwater mixtures, Postgraduate, O.Gözcü(Student), 2020

Ünalán H. E., ÇINAR AYGÜN S., Solution-based synthesis of silver-platinum core-shell nanowires with enhanced stability, Postgraduate, S.KOYLAN(Student), 2019

Ünalán H. E., ÇINAR AYGÜN S., Structural and optoelectronic properties of vanadium pentoxide thin films deposited by ultrasonic spray pyrolysis., Postgraduate, Ş.KOÇ(Student), 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An Edible Supercapacitor Based on Zwitterionic Soy Sauce-Based Gel Electrolyte**  
DURUKAN M. B., Keskin D., TUFAN Y., Dincer O., ÇİÇEK M. Ö., YILDIZ B., ÇINAR AYGÜN S., ERCAN B., ÜNALAN H. E. *ADVANCED FUNCTIONAL MATERIALS*, vol.34, no.6, 2024 (SCI-Expanded)
- II. **Size and morphology controlled polyol synthesis of LiFePO<sub>4</sub> nanoparticles with addition of organic acid combinations**  
Coşkun E., Kurşun E., YILDIZ B., Aşkar Y., Bahtiyar D., AYDINOL M. K., MAVİŞ B., Çınar-Aygün S. *Ceramics International*, 2024 (SCI-Expanded)
- III. **Solidification-Controlled Compartmentalization of Bismuth-Tin Colloidal Particles**

- ULUSEL M., Dinçer O., Şahin O., ÇINAR AYGÜN S.  
ACS Applied Materials and Interfaces, vol.15, no.44, pp.51309-51318, 2023 (SCI-Expanded)
- IV. **Wet spun core-shell fibers for wearable triboelectric nanogenerators**  
Doganay D., Demircioglu O., Cugunlular M., Cicek M. O., Cakir O., Kayaci H. U., Aygun S., Ünalán H. E.  
Nano Energy, vol.116, 2023 (SCI-Expanded)
- V. **Ultra-Sensitive Bio-Polymer Iontronic Sensors for Object Recognition from Tactile Feedback**  
Çiçek M. Ö., Durukan M. B., Yildiz B., Keskin D., Doğanay D., Çinar Aygün S., Çakir M. P., Ünalán H. E.  
Advanced Materials Technologies, vol.8, no.16, 2023 (SCI-Expanded)
- VI. **Triboelectric nanogenerators for blue energy harvesting in simulated wave conditions**  
DEMİRCİOĞLU O., ÇİÇEK M. Ö., DOĞANAY D., Gazaloglu G., BAYKAL C., ÇINAR AYGÜN S., ÜNALAN H. E.  
Nano Energy, vol.107, 2023 (SCI-Expanded)
- VII. **Colloidal Stabilization of Submicron-Sized Zeolite NaA in Ethanol-Water Mixtures for Nanostructuring into Thin Films and Nanofibers**  
GÖZCÜ O., Kayaci H. U., Dou Y., Zhang W., Hedin N., Jasso-Salcedo A. B., Kaiser A., ÇINAR AYGÜN S.  
Langmuir, vol.39, no.1, pp.192-203, 2023 (SCI-Expanded)
- VIII. **Multifunctional and Physically Transient Supercapacitors, Triboelectric Nanogenerators, and Capacitive Sensors**  
Durukan M. B., Çiçek M. Ö., Doğanay D., Gorur M. C., Cinar S., Ünalán H. E.  
ADVANCED FUNCTIONAL MATERIALS, vol.32, no.1, 2022 (SCI-Expanded)
- IX. **Inter-particle spacing in aqueous suspensions of nanopowders and its effects on particle packing, green body formation and fabrication of alumina**  
Kayaci H. U., ÇINAR S.  
Ceramics International, vol.46, no.12, pp.20357-20368, 2020 (SCI-Expanded)
- X. **Ambient synthesis of nanomaterials by in situ heterogeneous metal/ligand reactions**  
Chang B. S., Thomas B., Chen J., Tevis I. D., Karanja P., Cinar S., Venkatesh A., Rossini A. J., Thuo M. M.  
NANOSCALE, vol.11, no.29, pp.14060-14069, 2019 (SCI-Expanded)
- XI. **Physical-chemical hybrid transiency: A fully transient li-ion battery based on insoluble active materials**  
CHEN Y., JAMSHIDI R., WHITE K., Çinar S., GALLEGOS E., HASHEMI N., Montazami R.  
Journal of Polymer Science, Part B: Polymer Physics, vol.54, no.20, pp.2021-2027, 2016 (SCI-Expanded)
- XII. **Application of Ionic Liquids in Pot-in-Pot Reactions**  
Cinar S., Schulz M. D., Oyola-Reynoso S., BWAMBOK D. K., GATHIACA S. M., Thuo M.  
MOLECULES, vol.21, no.3, 2016 (SCI-Expanded)
- XIII. **Mechanical Fracturing of Core-Shell Undercooled Metal Particles for Heat-Free Soldering**  
Cinar S., Tevis I. D., Chen J., Thuo M.  
SCIENTIFIC REPORTS, vol.6, 2016 (SCI-Expanded)
- XIV. **Study of mechanics of physically transient electronics: A step toward controlled transiency**  
Çinar S., JAMSHIDI R., CHEN Y., Hashemi N., Montazami R.  
Journal of Polymer Science, Part B: Polymer Physics, vol.54, no.4, pp.517-524, 2016 (SCI-Expanded)
- XV. **Recruiting physisorbed water in surface polymerization for bio-inspired materials of tunable hydrophobicity**  
Oyola-Reynoso S., Tevis I. D., Chen J., Chang B. S., Cinar S., BLOCH J. -, Thuo M. M.  
JOURNAL OF MATERIALS CHEMISTRY A, vol.4, no.38, pp.14729-14738, 2016 (SCI-Expanded)
- XVI. **Reprint of 'Draw your assay: Fabrication of low-cost paper-based diagnostic and multi-well test zones by drawing on a paper'**  
OYOLA-REYNOSO S., HEIM A. P., HALBERTSMA-BLACK J., ZHAO C., TEVIS I. D., Çinar S., Cademartiri R., LIU X., Bloch J., Thuo M. M.  
Talanta, vol.145, pp.73-77, 2015 (SCI-Expanded)
- XVII. **Revisiting the Challenges in Fabricating Uniform Coatings with Polyfunctional Molecules on High Surface Energy Materials**  
Oyola-Reynoso S., Wang Z., Chen J., Cinar S., Chang B., Thuo M.

- COATINGS, vol.5, no.4, pp.1002-1018, 2015 (SCI-Expanded)
- XVIII. **Transient bioelectronics: Electronic properties of silver microparticle-based circuits on polymeric substrates subjected to mechanical load**  
JAMSHIDI R., Çinar S., CHEN Y., HASHEMI N., MONTAZAMI R.  
Journal of Polymer Science, Part B: Polymer Physics, vol.53, no.22, pp.1603-1610, 2015 (SCI-Expanded)
- XIX. **Draw your assay: Fabrication of low-cost paper-based diagnostic and multi-well test zones by drawing on a paper**  
OYOLA-REYNOSO S., HEIM A. P., HALBERTSMA-BLACK J., ZHAO C., TEVIS I. D., Çinar S., Cademartiri R., LIU X., Bloch J., Thuo M. M.  
Talanta, vol.144, pp.289-293, 2015 (SCI-Expanded)
- XX. **Direct Visualization of the Hydration Layer on Alumina Nanoparticles with the Fluid Cell STEM in situ**  
FIRLAR E., Cinar S., KASHYAP S., AKINC M., PROZOROV T.  
SCIENTIFIC REPORTS, vol.5, 2015 (SCI-Expanded)
- XXI. **Influence of bound water layer on the viscosity of oxide nanopowder suspensions**  
Çinar S., ANDERSON D. D., AKINC M.  
Journal of the European Ceramic Society, vol.35, no.2, pp.613-622, 2015 (SCI-Expanded)
- XXII. **Combined effect of fructose and NaCl on the viscosity of alumina nanopowder suspensions**  
Cinar S., Anderson D. D., Akinc M.  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.35, no.1, pp.377-382, 2015 (SCI-Expanded)
- XXIII. **Ascorbic acid as a dispersant for concentrated alumina nanopowder suspensions**  
Çinar S., AKINC M.  
Journal of the European Ceramic Society, vol.34, no.8, pp.1997-2004, 2014 (SCI-Expanded)
- XXIV. **Study of physically transient insulating materials as a potential platform for transient electronics and bioelectronics**  
ACAR H., Çinar S., Thunga M., KESSLER M. R., HASHEMI N., MONTAZAMI R.  
Advanced Functional Materials, vol.24, no.26, pp.4135-4143, 2014 (SCI-Expanded)
- XXV. **Electrostatic Stabilization of Alumina Nanopowder Suspensions**  
Çinar S., AKINC M.  
Science of Advanced Materials, vol.6, no.3, pp.520-529, 2014 (SCI-Expanded)
- XXVI. **Elucidation of viscosity reduction mechanism of nano alumina suspensions with fructose addition by DSC**  
Çinar S., VAN STEENHUYSE L., AKINC M.  
Journal of the American Ceramic Society, vol.96, no.4, pp.1077-1084, 2013 (SCI-Expanded)
- XXVII. **Synthesis of silver nanoparticles by oleylamine-oleic acid reduction and its use in making nanocable by coaxial electrospinning**  
ÇINAR S., GÜNDÜZ G., MAVİŞ B., Çolak Ü.  
Journal of Nanoscience and Nanotechnology, vol.11, no.4, pp.3669-3679, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Aşırı Soğumuş Bizmut Kalay Sıvı Metal Parçacıklarının Yüksek Verimle Üretimi**  
Çinar S.  
Konya Journal of Engineering Sciences, vol.9, no.1, pp.106-121, 2021 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Photothermal properties of Liquid metal derived BiSn core-shell particles**  
ŞEYDA D., Dinçer O., İnce D., Çuğunlular M., ÜNALAN H. E., ÇINAR AYGÜN S.

17th NANOSCIENCE & NANOTECHNOLOGY CONFERENCE, İzmir, Turkey, 27 August 2023

- II. **Patterning and Chemically Tunable Electrostatic Interactions of BiSn@SnO Core-Shell Colloidal Particles**  
Dinçer O., Şeyda D., Çınar Aygün S.  
16th Nanoscience and Nanotechnology Conference, Ankara, Turkey, 5 - 08 September 2022, pp.46
- III. **Facile Fabrication of Multifunctional and Transient All-PVA Based Green Electronics**  
Durukan M. B., Çiçek M. Ö., Doğanay D., Görür C., Çınar Aygün S., Ünal H. E.  
Materials Research Society Fall 2021 Meeting, Massachusetts, United States Of America, 29 November - 02 December 2021, pp.1
- IV. **Synthesis of Metallic Striped and Janus Particles**  
ULUSEL M., Şahin O., Dinçer O., Yıldız B., ÇINAR AYGÜN S.  
20th International Metallurgy and Materials Congress, Online, Turkey, 10 June 2021
- V. **Investigation of the performance of colloidal LiFePO<sub>4</sub> particles in suspension flow battery**  
Yıldız B., Aşkar Y., Coşkun E., MAVİŞ B., ÇINAR AYGÜN S.  
20th International Metallurgy and Materials Congress, Online, Turkey, 10 June 2021
- VI. **Tailoring slurry formulation to manufacture fine-scale ceramic structures via material extrusion**  
Kayacı H. U., ÇINAR S.  
2021 Virtual Materials Research Society (MRS) Spring Meeting and Exhibit, United States Of America, 17 April 2021
- VII. **Metallurgical approach to controlled synthesis of composite, patchy, striped and Janus particles in large scale**  
ULUSEL M., ÇINAR S.  
American Chemical Society (ACS) Meeting and Exposition Spring, 2021, United States Of America, 15 April 2021
- VIII. **Synthesis of Electroactive Materials for Suspension based Flow Assisted Batteries**  
YILDIZ B., AŞKAR Y., MAVİŞ B., ÇINAR S.  
4th International Symposium on Materials for Energy Storage and Conversion, Turkey, 11 - 13 September 2019
- IX. **Fabrication of Conductive Electroactive Materials for Next-Generation Suspension Flow Batteries**  
AŞKAR Y., YILDIZ B., MAVİŞ B., ÇINAR S.  
4th International Symposium on Materials for Energy Storage and Conversion, Turkey, 11 - 13 September 2019
- X. **A new concept in flow assisted energy storage: suspension electrode approach**  
YILDIZ B., AŞKAR Y., ÇINAR S.  
4th International Symposium on Materials for Energy Storage and Conversion, Turkey, 11 - 13 September 2019
- XI. **Increasing solids content of nanopowder suspensions and the density of green bodies thereof**  
Çınar S., Kayacı H. U.  
XVI European Ceramic Society Conference, Turin, Italy, 16 - 20 June 2019
- XII. **Fabrication of Metallic Anisotropic Particles**  
Çınar S., Yavaş H., Ulucan T. H.  
14th Nanoscience and Nanotechnology Conference, İzmir, Turkey, 22 - 25 September 2018, pp.40
- XIII. **A novel scalable method for synthesis of metallic anisotropic particles**  
Çınar S., Ulucan T. H., Yavaş H.  
32nd Conference of European Colloid and Interface Society, Ljubljana, Slovenia, 2 - 07 September 2018, pp.327
- XIV. **Suspension Electrode Approach for Flow Assisted Energy Storage Systems**  
Çınar S., Yıldız B.  
9th Eastern Mediterranean Chemical Engineering Conference, Ankara, Turkey, 31 August - 02 September 2018
- XV. **Hydration layer: a potential key to manage colloidal processing of oxide nanopowder suspensions**  
Çınar S., Akınç M.  
15th Conference Exhibition of the European Ceramic Society, Budapest, Hungary, 9 - 13 July 2017
- XVI. **Fabrication of core-shell undercooled metal particles and their use in manufacturing and joining at ambient conditions**  
ÇINAR S., Tevis I. D., Chen J., Thuo M.  
2016 European Materials Research Society Spring Meeting and Exhibit, Lille, France, 02 May 2016

## Supported Projects

- ÇINAR AYGÜN S., ŞEYDA D., İNCE D., Project Supported by Higher Education Institutions, Yenilikçi fototerma malzemeler ile solar su buharlaştırma sistemlerinin geliştirilmesi, 2023 - Continues
- ÇINAR AYGÜN S., DİNÇER O., Project Supported by Higher Education Institutions, BiSn parçacıkların organik boyaların fotokatalitik bozunmasında kullanımı, 2023 - Continues
- Ünalın H. E., Coşkun Ş., Doğanay D., ÇINAR AYGÜN S., TUBITAK Project, Türkiye Fotovoltaik Teknolojileri Platformu, 2021 - 2025
- Çınar Aygün S., TUBITAK Project, Eklemeli İmalat Yöntemi İle Üretilen Seramiklerin Yüzey Özelliklerinin İkincil İşlemler İle İyileştirilmesi, 2023 - 2024
- Çınar Aygün S., MAVİŞ B., TUBITAK Project, Süspansiyon Elektrotlarda Elektroaktif Parçacıkların Fiziksel Ve Kolloidal Özelliklerinin Reolojik Ve Elektrokimyasal Davranışa Etkisinin İncelenmesi, 2022 - 2024
- ÇINAR AYGÜN S., COŞKUN E., Project Supported by Higher Education Institutions, LiFePO<sub>4</sub> Parçacıklarının Boyut ve Şekil Kontrollü Sentezi, 2022 - 2023
- ÇINAR AYGÜN S., YILDIZ B., MAVİŞ B., COŞKUN E., Project Supported by Higher Education Institutions, Elektroaktif parçacıkların boyut ve şekillerinin süspansiyon elektrot performansına etkisi, 2022 - 2023
- ÇINAR AYGÜN S., YILDIZ B., Project Supported by Higher Education Institutions, Tekil LiFePO<sub>4</sub> parçacık kullanımının süspansiyon elektrot reolojisine etkisi, 2021 - 2022
- Çınar Aygün S., TUBITAK Project, Bizmut Bazlı Metalik Janus Parçacıklarının Ölçeklendirilebilir Üretimi, 2019 - 2022
- ÇINAR AYGÜN S., GÖZCÜ O., Project Supported by Higher Education Institutions, ZEOLİT SÜSPANSİYONLARIN GAZ MEMBRANLARINDA KULLANIMI İÇİN KOLOİDAL STABİLİZASYONU, 2018 - 2019
- ÇINAR AYGÜN S., Project Supported by Higher Education Institutions, Oksit Nanotozların Isıl Plazma Püskürtme Yöntemi ile Sentezi, 2018 - 2019
- ÇINAR AYGÜN S., Project Supported by Higher Education Institutions, Katmanlı İmalat (3 Boyutlu Baskı) Yönteminin Seramik Malzeme Üretime Uygulanması, 2018 - 2019

## Patent

- MİKRO ve NANO-BOYUTLARDA ANİZOTROPİK PARÇACIK ÜRETME YÖNTEMİ, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 2021 002019 , Standard Registration, 2023
- Çınar Aygün S., Micro and Nano-sized Anisotropic Particle Fabrication Technique, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: US20210252592A1 , Standard Registration, 2021

## Scientific Refereeing

- Journal Of The American Ceramic Society, Journal Indexed in SCI-E, April 2022
- JOURNAL OF THE ELECTROCHEMICAL SOCIETY, Journal Indexed in SCI-E, August 2021
- PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, July 2019
- Scientific Reports, Journal Indexed in SCI-E, April 2019
- PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, October 2018
- Journal Of The European Ceramic Society, Journal Indexed in SCI-E, September 2018
- Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal, August 2018
- Journal Of The American Ceramic Society, Journal Indexed in SCI-E, January 2018
- Journal Of The American Ceramic Society, Journal Indexed in SCI-E, November 2017
- INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Journal Indexed in SCI-E, June 2017
- Journal Of Materials Engineering And Performance, Journal Indexed in SCI-E, May 2017
- JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, Journal Indexed in SCI-E, April 2017
- SCIENTIFIC REPORTS, Journal Indexed in SCI-E, April 2017
- ADVANCED ENGINEERING MATERIALS, Journal Indexed in SCI-E, March 2017

## Scientific Consultations

Orta Doğu Teknik Üniversitesi, Project Consultancy, Middle East Technical University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering, Turkey, 2023 - Continues

GÜNAM, Project Consultancy, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey, 2021 - Continues

ODTÜ, Project Consultancy, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, Turkey, 2020 - 2021

## Metrics

Publication: 49

Citation (WoS): 469

Citation (Scopus): 513

H-Index (WoS): 13

H-Index (Scopus): 13

## Congress and Symposium Activities

International Metallurgy and Materials Congress, Attendee, İstanbul, Turkey, 2021

Materials Research Society (MRS) Virtual Meeting, Attendee, Alabama, United States Of America, 2021

American Chemical Society (ACS) Spring Meeting, Attendee, Alabama, United States Of America, 2021

4th International Symposium on Materials Energy Storage and Conversion, Attendee, Muğla, Turkey, 2019

XVI Conference and Exhibition of the European Ceramic Society, Attendee, Turin, Italy, 2019

32nd Conference of the European Colloid and Interface Society, Attendee, Ljubljana, Slovenia, 2018

14th Nanoscience and Nanotechnology Conference, Attendee, İzmir, Turkey, 2018

9th Eastern Mediterranean Chemical Engineering Conference, Attendee, Ankara, Turkey, 2018

15th Conference & Exhibition of the European Ceramic Society, Attendee, Budapest, Hungary, 2017

## Invited Talks

6th International Conference on Engineering Sciences, Conference, Ankara Yıldırım Beyazıt University, Turkey, February 2023

Colloid and Interface Science for Functional Materials, Seminar, İhsan Doğramacı Bilkent Üniversitesi, Turkey, December 2018

Designing Colloids and Interfaces, Seminar, Orta Doğu Teknik Üniversitesi, Turkey, December 2018

Designing Colloids and Interfaces, Seminar, Technical University of Denmark, Dept. of Energy Conversion and Storage, Denmark, September 2018

Colloid Materials: A world of particles suspending in a media, Seminar, Orta Doğu Teknik Üniversitesi, Turkey, May 2018

## Scholarships

Yurda Dönüş Araştırma Burs Programı, TÜBİTAK, 2017 - 2019

## Non Academic Experience

Arçelik A.Ş.