

Assoc. Prof. SİMGE ÇINAR AYGÜN

Personal Information

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

Email: 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: AGN-4049-2022

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., Investigation of photothermal properties of bismuth-tin core-shell particles derived from liquid metals, Postgraduate, D.ŞEYDA(Student), 2024

Çınar Aygün S., Maviş B., Rheological and electrical properties of aqueous lithium iron phosphate suspension electrodes, Doctorate, B.YILDIZ(Student), 2024

Ünalın H. E., Çınar Aygün S., Optimized silver nanowire networks for transparent smart devices, Postgraduate, O.ÇAKIR(Student), 2023

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

Ünalın H. E., Çınar Aygün S., Design of novel electrolytes and electrodes for supercapacitors, Postgraduate, D.KESKİN(Student), 2023

Ünalın 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

Ünalın 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 LiFePO₄ PARTICLES WITH CONTROLLED SIZE AND MORPHOLOGY VIA POLYOL ROUTE, Postgraduate, E.COŞKUN(Student), 2022

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

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

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

Çınar Aygün S., Colloidal stabilization of lta type zeolites in ethanol-water mixtures, Postgraduate, O.GÖZCÜ(Student), 2020

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

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Lightweight, flexible, and antimicrobial X-ray shielding composites with liquid metal-derived bismuth-tin core-shell particles**
Dincer O., ŞEYDA D., AKCA G., Cengiz B., Gorur M. C., DOĞANAY D., ÜNALAN H. E., ÇINAR AYGÜN S.
APPLIED MATERIALS TODAY, vol.38, 2024 (SCI-Expanded)
- II. **Size and morphology controlled polyol synthesis of LiFePO₄ 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, vol.50, no.9, pp.15915-15930, 2024 (SCI-Expanded)
- III. **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)
- IV. **Bismuth-Tin Core-Shell Particles From Liquid Metals: A Novel, Highly Efficient Photothermal Material that Combines Broadband Light Absorption with Effective Light-to-Heat Conversion**
ŞEYDA D., Dincer O., İnce D., Cugunlular M., ÜNALAN H. E., ÇINAR AYGÜN S.
Advanced Science, 2024 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **Ultra-Sensitive Bio-Polymer Iontronic Sensors for Object Recognition from Tactile Feedback**
Çiçek M. Ö., Durukan M. B., Yildiz B., Keskin D., Doğanay D., Çınar Aygün S., Çakir M. P., Ünalán H. E.
Advanced Materials Technologies, vol.8, no.16, 2023 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **Physical-chemical hybrid transiency: A fully transient li-ion battery based on insoluble active materials**
CHEN Y., JAMSHIDI R., WHITE K., Çınar 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)
- XIV. **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)

- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **Electrostatic Stabilization of Alumina Nanopowder Suspensions**
Çinar S., AKINC M.
Science of Advanced Materials, vol.6, no.3, pp.520-529, 2014 (SCI-Expanded)
- XXVIII. **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)

- XXIX. **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**

Çınar S.

Konya Journal of Engineering Sciences, vol.9, no.1, pp.106-121, 2021 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis and Photothermal Applications of Liquid Metal-Driven Core-Shell Bismuth-Tin Particles**
Şeyda D., Dinçer O., İnce D., Çuğunlular M., Ünal H. E., Çınar Aygün S.
22nd International Metallurgy and Materials Congress, İstanbul, Turkey, 19 - 21 September 2024, pp.555
- II. **Development of Flexible TPU-BiSn Composites for Wearable X-Ray Shielding with Enhanced Mechanical and Antimicrobial Properties**
Dinçer O., Seyda D., Akca G., Cengiz B., Görür M. C., Doğanay D., Ünal H. E., Çınar Aygün S.
9th Polymer Science and Technology Congress with International Participation, Ankara, Turkey, 16 September - 18 November 2024, pp.164
- III. **Novel Photothermal BiSn Core-Shell Particles for Solar Evaporation Devices**
İnce D., Şeyda D., Çınar Aygün S.
18th International Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 26 - 28 August 2024, pp.216
- IV. **Everyday Materials for Transient Supercapacitors**
Durukan M. B., Keskin D., Çiçek M. Ö., Tufan Y., Dinçer O., Çınar Aygün S., Ercan B., Ünal H. E.
MRS Fall Meeting 2023, Massachusetts, United States Of America, 26 November 2023 - 01 December 2024, pp.1
- V. **Fiber Based Triboelectric Nanogenerators for Human Machine Interface**
Doğanay D., Demircioğlu O., Çuğunlular M., Çiçek M. Ö., Çakır O., Kayacı H. U., Çınar Aygün S., Ünal H. E.
17th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE, İzmir, Turkey, 27 - 29 August 2023, pp.135
- VI. **Modified Buoy Based Triboelectric Nanogenerator for Blue Wave Energy Harvesting**
Demircioğlu O., Çiçek M. Ö., Doğanay D., Gazaloğlu G., Yalçın A. C., Çınar Aygün S., Ünal H. E.
17th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE, İzmir, Turkey, 27 - 29 August 2023, pp.270
- VII. **Photothermal properties of Liquid metal derived BiSn core-shell particles**
Şeyda D., Dinçer O., İnce D., Çuğunlular M., Ünal H. E., Çınar Aygün S.
17th NANOSCIENCE & NANOTECHNOLOGY CONFERENCE, İzmir, Turkey, 27 - 29 August 2023, pp.1
- VIII. **Significance of Electroactive Material selection in suspension based electrochemical energy storage systems**
Yıldız B., Aşkar Y., Coşkun E., Maviş B., Çınar Aygün S.
7th International Symposium on Materials for Energy Storage and Conversion, Muğla, Turkey, 17 - 21 July 2023, pp.88
- IX. **Floating Buoy as a Triboelectric Nanogenerator for Blue Energy Harvesting**
Demircioğlu O., Çiçek M. Ö., Doğanay D., Gazaloğlu G., Baykal C., Çınar Aygün S., Ünal H. E.
MRS Fall Meeting 2022, Massachusetts, United States Of America, 27 November - 02 December 2022, pp.1
- X. **Supramolecular Bio-Polymer Gel Based Iontronic Sensors for Object Recognition from Tactile Feedback**
Çiçek M. Ö., Durukan M. B., Keskin D., Doğanay D., Çınar Aygün S., Çakır M. P., Ünal H. E.
MRS Fall Meeting 2022, Massachusetts, United States Of America, 27 November - 02 December 2022, pp.1

- XI. **Biodegradable and Biocompatible Gel Electrolyte for Edible Supercapacitors**
Keskin D., Durukan M. B., Çiçek M. Ö., Tufan Y., Dinçer O., Ercan B., Çınar Aygün S., Ünal H. E.
E-MRS Fall Meeting 2022, Warszawa, Poland, 19 - 22 September 2022, pp.1
- XII. **Direct Ink Writing of 1T-MoS₂/Ag NW Inks for the Fabrication of Interdigitated Microsupercapacitors**
Durukan M. B., Görür M. C., Öztürk G., Çakır O., Keskin D., Bölükbaşı T., Yıldız B., Çınar Aygün S., Ünal H. E.
E-MRS Fall Meeting 2022, Warszawa, Poland, 19 - 22 September 2022, pp.1
- XIII. **Multifunctional and Physically Transient Supercapacitors, Triboelectric Nanogenerators, and Capacitive Sensors**
Durukan M. B., Çiçek M. Ö., Doğanay D., Görür M. C., Çınar Aygün S., Ünal H. E.
E-MRS Fall Meeting 2022, Warszawa, Poland, 19 - 22 September 2022, pp.1
- XIV. **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
- XV. **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
- XVI. **Investigation of the performance of colloidal LiFePO₄ 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
- XVII. **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
- XVIII. **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
- XIX. **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
- XX. **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
- XXI. **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
- XXII. **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
- XXIII. **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
- XXIV. **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
- XXV. **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

- XXVI. **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
- XXVII. **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
- XXVIII. **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
- ÜNALAN H. E., ÇINAR AYGÜN S., ARIKAN B., TÜBİTAK Project, Silisyum Heteroeklem Güneş Hücreleri İçin Çekirdek-Kabuk Yapısındaki Bakır-Gümüş Pastaların Geliştirilmesi, 2023 - 2025
- Çınar Aygün S., TÜBİTAK Project, Eklemeli İmalat Yöntemi İle Üretilen Seramiklerin Yüzey Özelliklerinin İkincil İşlemler İle İyileştirilmesi, 2023 - 2024
- ÇINAR AYGÜN S., DİNÇER O., Project Supported by Higher Education Institutions, BiSn parçacıkların organik boyaların fotokatalitik bozunmasında kullanımı, 2023 - 2024
- ÇINAR AYGÜN S., COŞKUN E., Project Supported by Higher Education Institutions, LiFePO₄ 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 LiFePO₄ parçacık kullanımının süspansiyon elektrot reolojisine etkisi, 2021 - 2022
- ÇINAR AYGÜN S., TÜBİTAK Project, Bizmut Bazlı Metalik Janus Parçacıklarının Ölçeklendirilebilir Üretimi, 2019 - 2022
- Çınar Aygün S., TÜBİTAK 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

- Çınar Aygün S., 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

SCIENTIFIC REPORTS, Journal Indexed in SCI-E, April 2017

JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, 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: 62

Citation (WoS): 577

Citation (Scopus): 600

H-Index (WoS): 14

H-Index (Scopus): 15

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

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

32nd Conference of the European Colloid and Interface Society, Attendee, Ljubljana, Slovenia, 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 Doęu Teknik Üniversitesi, Turkey, May 2018

Scholarships

Yurda Dönüş Araştırma Burs Programı, TÜBİTAK, 2017 - 2019

Non Academic Experience

Arçelik A.Ş.