

Asst. Prof. SİMGE ÇINAR

Personal Information

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Education Information

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

Post Graduate, Middle East Technical University, Kimya Mühendisliği, Turkey 2008 - 2009

Under Graduate, Middle East Technical University, Kimya Mühendisliği, Turkey 2003 - 2008

Foreign Languages

English, C1 Advanced

Dissertations

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

Post Graduate, 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, Metalurji Ve Malzeme Mühendisliği, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Metalurji Ve Malzeme Mühendisliği, 2016 - 2018

Courses

Materials Processing Laboratory, Under Graduate, 2017 - 2018, 2018 - 2019, 2019 - 2020

Materials Laboratory, Under Graduate, 2017 - 2018, 2018 - 2019

Fundamentals of Materials Science and Engineering, Under Graduate, 2016 - 2017, 2017 - 2018, 2018 - 2019

Characterization of Materials, Post Graduate, 2019 - 2020

Materials Engineering Design II, Under Graduate, 2017 - 2018, 2018 - 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Inter-particle spacing in aqueous suspensions of nanopowders and its effects on particle packing, green body formation and fabrication of alumina**
Kayacı H. U. , ÇINAR S.
Ceramics International, 2020 (Journal Indexed in SCI)
- **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, pp.14060-14069, 2019 (Journal Indexed in SCI)
- **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, pp.2021-2027, 2016 (Journal Indexed in SCI)
- **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, 2016 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **Study of mechanics of physically transient electronics: A step toward controlled transiency**
Çınar S., JAMSHIDI R., CHEN Y., Hashemi N., Montazami R.
Journal of Polymer Science, Part B: Polymer Physics, vol.54, pp.517-524, 2016 (Journal Indexed in SCI)
- **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, pp.14729-14738, 2016 (Journal Indexed in SCI)
- **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, pp.1002-1018, 2015 (Journal Indexed in SCI)
- **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. , Çınar S., Cademartiri R., LIU X., Bloch J., Thuo M. M.
Talanta, vol.145, pp.73-77, 2015 (Journal Indexed in SCI)
- **Transient bioelectronics: Electronic properties of silver microparticle-based circuits on polymeric substrates subjected to mechanical load**
JAMSHIDI R., Çınar S., CHEN Y., HASHEMI N., MONTAZAMI R.
Journal of Polymer Science, Part B: Polymer Physics, vol.53, pp.1603-1610, 2015 (Journal Indexed in SCI)
- **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. , Çınar S., Cademartiri R., LIU X., Bloch J., Thuo M. M.
Talanta, vol.144, pp.289-293, 2015 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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, pp.377-382, 2015 (Journal Indexed in SCI)
- **Influence of bound water layer on the viscosity of oxide nanopowder suspensions**
Çınar S., ANDERSON D. D. , AKINC M.
Journal of the European Ceramic Society, vol.35, pp.613-622, 2015 (Journal Indexed in SCI)
- **Ascorbic acid as a dispersant for concentrated alumina nanopowder suspensions**
Çınar S., AKINC M.
Journal of the European Ceramic Society, vol.34, pp.1997-2004, 2014 (Journal Indexed in SCI)

- **Study of physically transient insulating materials as a potential platform for transient electronics and bioelectronics**
ACAR H., Çınar S., Thunga M., KESSLER M. R. , HASHEMI N., MONTAZAMI R.
Advanced Functional Materials, vol.24, pp.4135-4143, 2014 (Journal Indexed in SCI)
- **Electrostatic Stabilization of Alumina Nanopowder Suspensions**
Çınar S., AKINC M.
Science of Advanced Materials, vol.6, pp.520-529, 2014 (Journal Indexed in SCI)
- **Elucidation of viscosity reduction mechanism of nano alumina suspensions with fructose addition by DSC**
Çınar S., VAN STEENHUYSE L., AKINC M.
Journal of the American Ceramic Society, vol.96, pp.1077-1084, 2013 (Journal Indexed in SCI Expanded)
- **Synthesis of silver nanoparticles by oleylamine-oleic acid reduction and its use in making nanocable by coaxial electrospinning**
ÇINAR S., GÜNDÜZ G., MAVIŞ B., Çolak Ü.
Journal of Nanoscience and Nanotechnology, vol.11, pp.3669-3679, 2011 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- **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
- **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
- **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
- **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
- **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

Supported Projects

ÇINAR S., TUBITAK Project, Bizmut Bazlı Metalik Janus Parçacıklarının Ölçeklendirilebilir Üretimi, 2019 - Continues

ÇINAR S., GÖZCÜ O., Project Supported by Higher Education Institutions, ZEOLİT SİSPANSİYONLARIN GAZ MEMBRANLARINDA KULLANIMI İÇİN KOLOİDAL STABİLİZASYONU, 2018 - 2019

ÇINAR S., Project Supported by Higher Education Institutions, Oksit Nanotozların Isıl Plazma Püskürtme Yöntemi ile Sentezi, 2018 - 2019

ÇINAR S., Project Supported by Higher Education Institutions, Katmanlı İmalat (3 Boyutlu Baskı) Yönteminin Seramik Malzeme Üretime Uygulanması, 2018 - 2019

Scientific Refereeing

PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, July 2019

SCIENTIFIC REPORTS, Journal Indexed in SSCI, April 2019

PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, October 2018

JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, Journal Indexed in SSCI, September 2018

PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, August 2018

JOURNAL OF THE AMERICAN CERAMIC SOCIETY, Journal Indexed in SSCI, January 2018
Journal of American Ceramic Society, SCI Journal, November 2017
International Journal of Biological Macromolecules, SCI Journal, June 2017
Journal of Materials Engineering and Performance, SCI Journal, May 2017
Journal of European Ceramic Society, SCI Journal, April 2017
Scientific Reports, SCI Journal, April 2017
Advanced Engineering Materials, SCI Journal, March 2017

Invited Congress and Symposium Activities

4th International Symposium on Materials Energy Storage and Conversion, Working Group, Muğla, Turkey, 2019
XVI Conference and Exhibition of the European Ceramic Society, Working Group, Turin, Italy, 2019
32nd Conference of the European Colloid and Interface Society, Working Group, Ljubljana, Slovenia, 2018
14th Nanoscience and Nanotechnology Conference, Working Group, İzmir, Turkey, 2018
9th Eastern Mediterranean Chemical Engineering Conference, Working Group, Ankara, Turkey, 2018
15th Conference & Exhibition of the European Ceramic Society, Attendee, Budapest, Hungary, 2017

Citations

Total Citations (WOS):291
h-index (WOS):10

Scholarships

Yurda Dönüş Araştırma Burs Programı, TÜBİTAK, 2017 - Continues