

Asst. Prof. GÜLSÜM TOPATEŞ

Personal Information

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Education Information

Doctorate, Anadolu Üniversitesi, Mühendislik-Mimarlık Fakültesi, Seramik Mühendisliği Bölümü, Turkey 2006 - 2013

Post Graduate, Anadolu Üniversitesi, Mühendislik Fakültesi, Seramik Mühendisliği Bölümü, Turkey 2000 - 2003

Under Graduate, Anadolu Üniversitesi, Mühendislik-Mimarlık Fakültesi, Seramik Mühendisliği Bölümü, Turkey 1996 - 2000

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Dizel partikül filtre (DPF) üretimine yönelik si3n4 esaslı malzeme geliştirilmesi, Anadolu Üniversitesi, Mühendislik-Mimarlık Fakültesi, Seramik Mühendisliği Bölümü, 2013

Research Areas

Metallurgical and Materials Engineering, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Çanakkale Onsekiz Mart Üniversitesi, Elektronik ve Haberleşme Mühendisliği, Malzeme Ve Malzeme İşleme Teknolojileri Bölümü, 2005 - 2006

Lecturer, Çanakkale Onsekiz Mart Üniversitesi, Elektronik ve Haberleşme Mühendisliği, Malzeme Ve Malzeme İşleme Teknolojileri Bölümü, 2003 - 2005

Professional Experience

Deputy Head of Department, Ankara Yıldırım Beyazıt Üniversitesi, Mühendislik ve Doğa Bilimleri Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2015 - Continues

Courses

MSE-351 Glass Technology, Under Graduate, 2017 - 2018

Processing and Application of Porous Ceramics, Post Graduate, 2016 - 2017

Phase Relations and Diagrams, Under Graduate, 2016 - 2017
Materials Processing Laboratory, Under Graduate, 2016 - 2017
Phase Diagrams for Advanced Materials, Post Graduate, 2016 - 2017
Glass Technology, Under Graduate, 2016 - 2017

Advising Theses

Topateş G., EFFECT OF TEMPERING CONDITIONS ON THE FINAL PROPERTIES OF BALL BEARINGS, Post Graduate, B.İpek(Student), Continues
Topateş G., PRODUCTION OF ZrO₂ - Si₃N₄ COMPOSITES FOR DENTAL APPLICATIONS, Post Graduate, S.Çetin(Student), Continues
Topateş G., BORON CARBIDE SYNTHESIS BY POLYMERIC PRECURSOR METHOD, Post Graduate, H.Doyuran(Student), Continues
Topateş G., Production of Gradient Porous Silicon Nitride Ceramics for Bone Grafting Applications, Post Graduate, S.ONAT(Student), 2020

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

- I. **Biocompatibility of silicon nitride produced via partial sintering & tape casting**
Cecen B., TOPATEŞ G., Kara A., Akbulut S. O. , Havitcioglu H., KOZACI L. D.
Ceramics International, 2020 (Journal Indexed in SCI Expanded)
- II. **The effect of zircon particle size on the surface properties of sanitaryware glaze**
Topateş G., Alici B., Tarhan Ş. B. , Tarhan M.
MATERIALS RESEARCH EXPRESS, vol.7, pp.1-9, 2020 (Journal Indexed in SCI Expanded)
- III. **Starch consolidation of SiC ceramics: processing and low-temperature sintering in an air atmosphere**
Kalemtaş A., Topateş G., Aytakin Aydın M. T. , Özey N.
Journal of Asian Ceramic Societies, 2020 (Journal Indexed in SCI Expanded)
- IV. **Production of Si₃N₄ porous beads via carbothermal reduction and nitridation technique**
TOPATEŞ G., Kalemtaş A.
Journal of Asian Ceramic Societies, 2020 (Journal Indexed in SCI Expanded)
- V. **Recycling of waste flat glass in the fabrication of Si₃N₄ powder by the carbo-thermal reduction and nitridation**
TOPATEŞ G.
International Journal of Applied Ceramic Technology, 2019 (Journal Indexed in SCI Expanded)
- VI. **Direct production of Si₃N₄ foams by carbothermal reduction and nitridation of SiO₂**
Topates G.
Ceramics International, vol.44, pp.20545-20550, 2018 (Journal Indexed in SCI Expanded)
- VII. **Chemical durability of zircon containing glass-ceramic glazes**
Topates G., Tarhan B., Tarhan M.
Ceramics International, vol.43, pp.12333-12337, 2017 (Journal Indexed in SCI Expanded)
- VIII. **The effects of sintering temperature on phase and pore evolution in porcelain tiles**
Gultekin E. E. , Topates G., KURAMA S.
Ceramics International, vol.43, pp.11511-11515, 2017 (Journal Indexed in SCI Expanded)
- IX. **Mechanical characterization of highly porous β-Si₃N₄ ceramics fabricated via partial sintering & starch addition**
Kalemtaş A., Topates G., Özcoban H., Mandal H., Kara F., Janssen R.
Journal of the European Ceramic Society, vol.33, pp.1507-1515, 2013 (Journal Indexed in SCI Expanded)
- X. **Microstructure-permeability relation of porous β-Si₃N₄ ceramics**

Topates G., Mammitzsch L., Petasch U., Adler J., Kara F., Mandal H.

Journal of the European Ceramic Society, vol.33, pp.1545-1551, 2013 (Journal Indexed in SCI Expanded)

XI. Thermal properties of pressureless melt infiltrated AlN-Si-Al composites

Kalemtaş A., Topates G., Bahadır O., Kaya İsci P., Mandal H.

Transactions of Nonferrous Metals Society of China (English Edition), vol.23, pp.1304-1313, 2013 (Journal Indexed in SCI Expanded)

XII. Production and permeability of porous Si₃N₄ ceramics produced by starch addition

Topates G., Petasch U., Adler J., Kara F., Mandal H.

Journal of Asian Ceramic Societies, vol.1, pp.257-261, 2013 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

I. Impedance testing of porous Si₃N₄ scaffolds for skeletal implant applications

Akbulut S. O., Ghorbanpoor H., Özbek İpteç B., Butterworth., Avcıoğlu G., Kozacı L. D., Topates G., Corrigan D. K., Avcı H., Doğan Güzel F.

SN Applied Sciences, vol.2, pp.1-6, 2020 (Refereed Journals of Other Institutions)

II. Aşamalı Gözenek Yapısına Sahip Si₃N₄ Seramiklerinin Üretimi ve Mekanik Karakterizasyonu

TOPATEŞ G., İPEK B., ÇELİK A.

Afyon Kocatepe Üniversitesi Fen Ve Mühendislik Bilimleri Dergisi, vol.19, pp.499-504, 2019 (Other Refereed National Journals)

III. GÖZENEK OLUŞTURUCU İLAVESİYLE TÜRBİN MOTOR BİLEŞENLERİ İÇİN GÖZENEKLİ MÜLLİT SERAMİK ÜRETİMİ

EREN GÜLTEKİN E., TOPATEŞ G.

Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.8, pp.1096-1114, 2019 (Other Refereed National Journals)

IV. Al₂O₃ ceramics with graded porosity produced from natural and artificial pore formers

TOPATEŞ G.

Politeknik Dergisi, vol.20, pp.595-598, 2017 (Other Refereed National Journals)

V. Sonic Characterization of Porous Si₃N₄ Produced By Various Pore Formers

TOPATEŞ G., EREN GÜLTEKİN E.

Journal of Achievements in Materials and Manufacturing Engineering, vol.63, pp.13-18, 2014 (Refereed Journals of Other Institutions)

Books & Book Chapters

I. Handbook of Biomaterials Biocompatibility

Çeçen B., Kalemtaş A., Topates G., Kozacı L. D.

Woodhead Publishing Limited, Aberdeen, 2020

Refereed Congress / Symposium Publications in Proceedings

I. Effect of Tempering Temperature and duration on the final properties of ball bearings

TOPATEŞ G., İpek B.

5 th International Conferences on Engineering Sciences, 19 September 2019

II. Production and characterization of calcium silicate added Si₃N₄ for bioceramic applications

TOPATEŞ G.

2nd International Eurasian Conference on Biological and Chemical Sciences, 28 - 29 June 2019

III. Production of porous mullite ceramics for turbine engine components produced by pore former

addition

EREN GÜLTEKİN E., TOPATEŞ G.

The International Conference on Materials Science, Machine and Automotive Engineerings and Technology, 10 - 12 April 2018

IV. Production of Si₃N₄ foams from replica and carbothermal reduction and nitridation techniques

TOPATEŞ G.

The International Conference on Materials Science, Machine and Automotive Engineerings and Technology, 10 April - 12 November 2018

V. Production And Characterization Of Silicon Nitride Ceramics With Graded Pore Structure

ÜSTÜNÇELİK M., BATU Ö., AKBULUT O. S., TOPATEŞ G.

3rd International Porous and Powder Materials Symposium and Exhibition, 12 - 15 September 2017

VI. Producing cordierite from local magnesium sources

Topateş G., Mandal H.

Proceedings of the 8th Conference and Exhibition of the European Ceramic Society, İstanbul, Turkey, 29 June - 03 July 2003, pp.933-936

Supported Projects

TOPATEŞ G., Project Supported by Higher Education Institutions, Perlit Hammaddesinin Seramik Sağlık Gereçleri Bünyesinde Kullanımının Araştırılması, 2018 - Continues

TOPATEŞ G., Project Supported by Higher Education Institutions, AŞAMALI GÖZENEK YAPISINA SAHİP Si₃N₄ SERAMİKLERİNİN CANLI HÜCRE TESTLERİNDE BİYOUYUMLULUKLARININ ARAŞTIRILMASI, 2019 - 2019

Topateş G., Project Supported by Higher Education Institutions, Farklı Şekillendirme Yöntemleri ile Aşamalı Gözeneğe Sahip Si₃N₄ Seramik Üretiminin ve Üretilen Malzemenin Biyoseramik Malzeme Olarak Kullanım İmkânının Araştırılması, 2017 - 2019

Topateş G., TUBİTAK Project, Başlangıç Ar-Ge projeleri destekleme programı-SiO₂ Başlangıç Tozu Kullanılarak Doğrudan Si₃N₄ Köpük Filtre Üretimi, 2017 - 2018

TOPATEŞ G., Project Supported by Higher Education Institutions, Karbotermal İndirgeme ve Nitrüleme Yöntemi ile Azot Esaslı Toz Üretimi ve Tozların Kompozit Üretiminde Kullanımının Araştırılması, 2015 - 2017

TOPATEŞ G., TUBİTAK Project, Sodyum Borat Bağlı Gözenekli SiC-Si₃N₄ Kompozitlerin Üretim ve Karakterizasyonu, TÜBİTAK Ulusal Genç Araştırmacı Kariyer Geliştirme Programı, 2014 - 2017

Invited Congress and Symposium Activities

2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Working Group, Ankara, Turkey, 2019

International Porous and Powder Materials Symposium and Exhibition, Working Group, Aydın, Turkey, 2017

Advanced Research Workshop Engineering Ceramics, Working Group, Bratislava, Slovakia, 2011

International Conference on High Performance Ceramics, Working Group, Harbin, China, 2009

International Symposium on Sialons and Non-Oxides, Working Group, Kyoto, Japan, 2007

Citations

Total Citations (WOS):10

h-index (WOS):2