

Asst. Prof. Buğra ÇİÇEK

Personal Information

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Education Information

Bologna Universitesi, Department Of Civil, Chemical, Environmental, And Materials Engineering – Dıcam, Turkey
Continues

Associate Degree, Cats College Canterbury, United Kingdom Continues

Doctorate, Bologna Universitesi, Italy 2009 - 2013

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Ceramic Materials, Composites, Glass Technology and Glass Ceramics, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, 2014 -
Continues

Professional Experience

Rector's Advisor, Yıldız Teknik Üniversitesi, 2015 - 2016

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

- I. **Effect of hexagonal boron nitride on the coefficient of frictions of organic-inorganic hybrid polymer thin films for metal surface coatings**
Karadag M., Karaahmet O., ÇİÇEK B., Usta M. I.
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.34, pp.2200-2215, 2020 (Journal Indexed in SCI)
- II. **Development and characterisation of solvent-borne thermally cured cross-linked TiO₂ reinforced Polyceramic coatings for long service-life on industrial metal substrates**
Tan O., Cimen O., Yolcu P., ÇİÇEK B.
METALLURGIA ITALIANA, pp.6-20, 2020 (Journal Indexed in SCI)
- III. **Boron mining and enrichment waste: A promising raw material for porcelain tile production**
Karadagli E., Çiçek B.
INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, vol.17, pp.563-572, 2019 (Journal Indexed in SCI)
- IV. **Waste recycling of cathode ray tube glass through industrial production of transparent ceramic frits**
Karaahmet O., ÇİÇEK B.
Journal of the Air and Waste Management Association, vol.69, pp.1258-1266, 2019 (Journal Indexed in SCI)

- V. **Use of boron mining waste as an alternative to boric acid (H₃BO₃) in opaque frit production**
ÇİÇEK B., Karadagli E., Duman F.
Ceramics International, vol.44, pp.14264-14280, 2018 (Journal Indexed in SCI)
- VI. **Valorisation of boron mining wastes in the production of wall and floor tiles**
ÇİÇEK B., Karadagli E., Duman F.
CONSTRUCTION AND BUILDING MATERIALS, vol.179, pp.232-244, 2018 (Journal Indexed in SCI)
- VII. **E-waste: A Review of CRT (Cathode Ray Tube) Recycling**
ÇİÇEK B.
Research and Review: JOURNAL OF MATERIALS SCIENCE, vol.5, no.2, pp.1-17, 2017 (Journal Indexed in SCI Expanded)
- VIII. **Double-layer waste-derived glass-ceramics prepared by low temperature sintering/sinter-crystallisation**
Marangoni M., Ponsot I., ÇİÇEK B., Bernardo E.
ADVANCES IN APPLIED CERAMICS, vol.115, pp.427-434, 2016 (Journal Indexed in SCI)
- IX. **Development of glass-ceramics from boron containing waste and meat bone ash combinations with addition of waste glass**
Cicek B., Tucci A., Bernardo E., Will J., Boccaccini A. R.
CERAMICS INTERNATIONAL, vol.40, pp.6045-6051, 2014 (Journal Indexed in SCI)
- X. **Microporous glass ceramics from combination of silicate, borate and phosphate wastes**
Cicek B., Esposito L., Tucci A., Bernardo E., Boccaccini A. R., Bingham P. A.
ADVANCES IN APPLIED CERAMICS, vol.111, pp.415-421, 2012 (Journal Indexed in SCI)
- XI. **Boron waste usage in industry**
ÇİÇEK B., Tucci A.
C+Ca, pp.97-101, 2010 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

- I. **Effects of Acid Resistance on Migration Behavior of Vitreous Enamels**
Çöpoğlu N., Yılmaz Y. B., Cengiz T., Çiçek B.
Acta Materialia Turcica, vol.4, pp.18-27, 2020 (National Refereed University Journal)
- II. **Investigation of Nickel Effects on Matt Cast Iron Enamel**
Yılmaz Y. B., Çöpoğlu N., Cengiz T., Çiçek B.
Acta Materialia Turcica, vol.4, pp.10-17, 2020 (National Refereed University Journal)
- III. **Effect of Lithium Ratio on Adherence Performance of Vitreous Enamel Coatings**
Yılmaz Y. B., Çöpoğlu N., Çiçek B.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.19, pp.171-179, 2019 (Other Refereed National Journals)
- IV. **Inkjet Applications on Vitreous Enamel Coatings**
Çöpoğlu N., Cengiz T., Çiçek B.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.19, pp.162-170, 2019 (Other Refereed National Journals)
- V. **Recycling of Fly Ash as an Additive in Industrial Porcelain Tiles**
Yavuz H. İ., Karadağlı E., Öztürk B., Çiçek B.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.19, pp.20-29, 2019 (Other Refereed National Journals)
- VI. **Development of Fly Ash Containing Catalytic Vitreous Enamel Coatings**
Çiçek B.
European Journal of Science and Technology, pp.948-959, 2019 (Other Refereed National Journals)
- VII. **Bor Karbür Tozu Üretimindeki Farklı Karbon Kaynaklarının Faz Oluşumu ve Mikroyapı Üzerindeki Etkisi**

Çiçek B., Balci Ö., Somer M., Kiraz K., Coşut Ö., Akbaşak T.
Bor Dergisi, no.2, pp.67-76, 2019 (National Refreed University Journal)

VIII. **Utilization of Bandırma Colemanite Enrichment Wastes in the Production of Transparent Frits**

ÇİÇEK B., Duman F., Karadağlı E., Yağyemez T.

Acta Materialia Turcica, vol.1, pp.45-49, 2017 (Refereed Journals of Other Institutions)

IX. **Recent advances in hydrophilic modification of PVDF ultrafiltration membranes – a review: part II**

Subasi Y., ÇİÇEK B.

Membrane Technology, vol.2017, pp.5-11, 2017 (Refereed Journals of Other Institutions)

X. **Recent advances in hydrophilic modification of PVDF ultrafiltration membranes – a review: part I**

SUBASI Y., ÇİÇEK B.

Membrane Technology, vol.2017, pp.7-12, 2017 (Refereed Journals of Other Institutions)

Books & Book Chapters

I. **Bor Karbür ve Düşük Sıcaklık Bor karbür Sentez Yöntemleri**

Çiçek B., Karaahmet O.

Nobel Yayın Dağıtım, Ankara, 2018

Refereed Congress / Symposium Publications in Proceedings

I. **Low Temperature Densification of B₄C Ceramics with CaB₆ Additives**

Yılmaz Y. B. , Çiçek B., Akkaşoğlu U.

7th International Scientific Research Congress, Ankara, Turkey, 13 - 14 March 2020, pp.363-374

II. **Optimizing the Migration Behavior of Vitreous Enamel Coatings**

Çöpoğlu N., Yılmaz Y. B. , Cengiz T., Çiçek B.

9th International Advances in Applied Physics & Materials Science Congress & Exhibition (APMAS2019), Muğla, Turkey, 22 - 28 October 2019, pp.85

III. **Investigation of Nickel Effects on Matt Cast Iron Enamel**

Yılmaz Y. B. , Çöpoğlu N., Cengiz T., Çiçek B.

9th International Advances in Applied Physics & Materials Science Congress & Exhibition (APMAS2019), Muğla, Turkey, 22 - 28 October 2019, pp.86

IV. **Tribolojik ve Mekanik Özellikleri Arttırılmış B₂O₃ Katkılı Soljel Seramik Kaplamaların Geliştirilmesi**

Çiçek B., Çimen O., Alboğa H.

International Symposium on Boron, Nevşehir, Turkey, 17 - 19 April 2019, pp.347-350

V. **Abrasion Resistance of Vitreous Enamel Coatings with Addition of B₄C Particles**

Çiçek B., Çöpoğlu N., Tanış B., Gülen Ş. M. , Cengiz T., Kaya M.

International Symposium on Boron, Nevşehir, Turkey, 17 - 19 April 2019, pp.301-306

VI. **The research of the enamel frits with lithium effects on surface characteristics of vitreous enamel coatings**

ERAYVAZ A. M. , ÇİÇEK B., DERUN E.

4th International Conference on Advances in Mechanical Engineering, 19 - 21 December 2018

VII. **ENHANCED THERMAL CONDUCTIVITY PERFORMANCE OF BORON-DOPED REFRACTORY PARTICLE COATINGS ON VITREOUS ENAMEL COOKWARES AND INVESTIGATION OF ITS POTENTIAL APPLICATION ON MEAT COOKING AS A NOVEL METHODS**

Mete B., Çeltik C., Karasu S., Çiçek B.

SERES'xx18"IV. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress, 10 - 12 October 2018

VIII. **Bor Karbür Tozu Sentezinde Farklı Karbon Kaynaklarının Faz Oluşumu ve Mikroyapı Üzerindeki Etkisi**

Çiçek B., Kiraz K., Balci Ö., Balci Ö., Akbaşak T., Somer M.

30. Ulusal Kimya Kongresi, Gazimagusa, Cyprus (Kktc), 5 - 08 November 2018, pp.209

- IX. Investigation of the Li-Free Enamel Frit Effects on Surface Characteristics of Vitreous Enamel Coatings**
Çiçek B., Erayvaz A. M. , Felloni S., Fazio S., Rambaldi E.
SERES'18, Eskişehir, Turkey, 10 - 12 October 2018, pp.337-343
- X. Enhanced Thermal Conductivity Performance of Boron Foped Refractory Particle Coatings on Vitreous Enamel Cookwares and Investigation of Its Potential Application on Meat Cooking As Novel Methods**
Çiçek B., Mete B., Çeltik C., Karasu S.
SERES'18, Eskişehir, Turkey, 10 - 12 October 2018, pp.349-354
- XI. Synthesis and Characterization of Micronized CoAl₂O₄ Spinel Crystals as Ceramic Pigments Based on Ink-Jet Printing**
Çiçek B., Aydın S., Mete B., Çimen O., Güçlü H. N.
SERES'18, Eskişehir, Turkey, 10 - 12 October 2018, pp.359-365
- XII. Synthesis of B₄C Powders Via Different Carbothermal Reduction Methods**
Çiçek B., Somer M., Balcı Ö., Coşut Ö., Kiraz K.
SERES'18, Eskişehir, Turkey, 10 - 12 October 2018, pp.540-541
- XIII. Rheological Behaviour of Boron Waste Containing Porcelain Tile Slurries**
Çiçek B., Karadağlı E., Duman F.
SERES'18, Eskişehir, Turkey, 10 - 12 October 2018, pp.95-101
- XIV. Investigation of Non-Stick Effect of H-BN on Vitreous Enamel Coatings**
Çiçek B., Mete B., Çeltikçi C.
3rd International Congress on Engineering, Architecture and Design, Kocaeli, Turkey, 4 - 05 May 2018, pp.149
- XV. Fabrication and Characterization of a Novel Polyvinylidene Fluoride Hollow Fiber Ultrafiltration Membranes Blended with 3- Aminopropyltriethoxysilane Grated Halloysite Nanotubes: A Preliminary Study**
Çiçek B., Subasi Y.
IMSEC2017, Adana, Turkey, 25 - 27 October 2017, pp.1988
- XVI. Antifouling properties of BN doped hollow fiber Membranes**
ÇİÇEK B., subasi y.
IMSEC2017, Adana, Turkey, 20 September 2017
- XVII. Usage of Bandırma Colemanite Wastes in the production of matte opaque Frits and Glossy Opaque Glaze**
Çiçek B., Duman F., Yagyemez T., Tunalı A., Tamsu Selli N., Karadağlı E., Talsik E.
European Ceramic Soc. ECERS2017, Budapest, Hungary, 9 - 13 July 2017, pp.596
- XVIII. Utilisation of Bandırma Colemanite Enrichment Wastes in the Production of Transparent Frits**
Çiçek B., Duman F., Karadağlı E., Yagyemez T., Tunalı A., Tamsu Selli N., Talsik E.
APMAS 2017, Muğla, Turkey, 22 - 26 April 2017, pp.129
- XIX. Usage of Boron Wastes in the Commercially Produced and Used ZrCMS system Opaque Frit Composition**
Çiçek B., Tunalı A., Tamsu Selli N., Aksu F., Talsik E.
IMMC2016, İstanbul, Turkey, 29 September - 01 October 2016, pp.158
- XX. Elimination of Boric Acid in ZRCMS Glass-Ceramic frit Compositions by Using Boron Wastes**
Çiçek B., Duman F., Tunalı A., Tamsu Selli N., Talsik E.
IMSTEC2016, Nevşehir, Turkey, 6 - 08 April 2016, pp.168

Supported Projects

Çiçek B., TUBITAK Project, Aşınma Dayanımı Arttırılmış Emaye Yüzeylerin Geliştirilmesi, 2020 - 2021

Çiçek B., Çimen O., TUBITAK Project, Cam Ambalaj ve Eşyalarına Yönelik Yüksek Yıkama Dayanımına Sahip Kurşun

İçermeyen Termoplastik Cam Emayelerin Geliştirilmesi, 2019 - 2020

Çiçek B., Cengiz T., TUBITAK Project, SU BUHARI TEMİZLENEBİLME FONKSİYONLU PİŞİRİCİ CİHAZLARDA SORUNSUZ ÇALIŞILABİLECEK YENİ NESİL FRİT KOMPOZİSYONLARININ VE ELEKTROSTATİK TOZ EMAYELERİN GELİŞTİRİLMESİ, 2018 - 2019

Çiçek B., Çimen O., TUBITAK Project, İNK-JET SERAMİK MÜREKKEPLERİNE YÖNELİK PİGMENTLERİN GELİŞTİRİLMESİ, 2018 - 2019

ÇİÇEK B., Cinko Borat katkılı yanmaz elyaf teknolojisinin geliştirilmesi, 2015 - 2016

KARAASLAN A., ÇİÇEK B., TUBITAK Project, Atıkların Kullanımı İle Metal-Cam Seramik Kompozit Sırların Geliştirilmesi, 2015 - 2016

ÇİÇEK B., Boraks zenginleştirme atıklarının seramik sektöründe değerlendirilmesi, 2015 - 2016

ÇİÇEK B., Other Supported Projects, Fransa Villeroy and Boch- La Ferte Gaucher Tesisleri Enerji Verimliliği arttırma çalışmaları, 2014 - 2015

ÇİÇEK B., Other Supported Projects, CRT atıklarının porselen karo ve sır bünyesinde değerlendirilmesi, 2013 - 2014

Scientific Refereeing

MATERIALS LETTERS, SCI Journal, October 2020

BOR DERGİSİ, National Scientific Refreed Journal, August 2020

Citations

Total Citations (WOS):37

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