

## Assoc. Prof. Buğra ÇİÇEK

### Personal Information

**Email:** bcicek@yildiz.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/bcicek>

### 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, Department Of  
Metallurgical And Materials Engineering, 2014 - Continues

### Academic and Administrative Experience

Yıldız Teknik Üniversitesi, 2015 - 2016

### Courses

Kalite Güvence Sistemleri, Under Graduate, 2014 - 2015

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

- I. **Abrasion resistant glass-ceramic coatings reinforced with WC-nanoparticles**  
Çöpoğlu N., ÇİÇEK B.  
Surface and Coatings Technology, vol.419, 2021 (Journal Indexed in SCI)
- II. **Structural, thermal and dielectric properties of low-alkali borosilicate glasses for electronic applications**  
Akkasoglu U., Sengul S., Arslan I., Ozturk B., Cicek B.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2021 (Journal Indexed in SCI)
- III. **Synthesis and characterization of hydrophobic glass-ceramic thin film derived from colloidal silica, zirconium(IV) propoxide and methyltrimethoxysilane via sol-gel method**  
Ak A., Cicek B.

JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, 2021 (Journal Indexed in SCI)

- IV. **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, no.20, pp.2200-2215, 2020 (Journal Indexed in SCI)
- V. **Development and characterisation of solvent-borne thermally cured cross-linked TiO<sub>2</sub> reinforced Polyceramic coatings for long service-life on industrial metal substrates**  
Tan O., Cimen O., Yolcu P., ÇİÇEK B.  
METALLURGIA ITALIANA, no.6, pp.6-20, 2020 (Journal Indexed in SCI)
- VI. **USE OF PARTIALLY HYDROLYZED PVA FOR BORON CARBIDE SYNTHESIS FROM POLYMERIC PRECURSOR**  
Karaahmet O., Çiçek B.  
CERAMICS-SILIKATY, vol.64, no.4, pp.434-446, 2020 (Journal Indexed in SCI)
- VII. **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)
- VIII. **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, no.10, pp.1258-1266, 2019 (Journal Indexed in SCI)
- IX. **Use of boron mining waste as an alternative to boric acid (H<sub>3</sub>BO<sub>3</sub>) in opaque frit production**  
ÇİÇEK B., Karadagli E., Duman F.  
Ceramics International, vol.44, no.12, pp.14264-14280, 2018 (Journal Indexed in SCI)
- X. **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)
- XI. **E-waste: A Review of CRT (Cathode Ray Tube) Recycling**  
ÇİÇEK B.  
Research and Review: JOURNAL OF MATERIALS SCIENCE, vol.5, pp.1-17, 2017 (Journal Indexed in SCI Expanded)
- XII. **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, no.7, pp.427-434, 2016 (Journal Indexed in SCI)
- XIII. **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, no.4, pp.6045-6051, 2014 (Journal Indexed in SCI)
- XIV. **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, no.7, pp.415-421, 2012 (Journal Indexed in SCI)
- XV. **Boron waste usage in industry**  
ÇİÇEK B., Tucci A.  
C+Ca, no.40, 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, no.2, pp.18-27, 2020 (National Refreed 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, no.2, pp.10-17, 2020 (National Refreed 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, no.16, 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.4, 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, no.11, 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, no.10, 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. **Relationship Between Surface Roughness and Adherence Performance of Cast Iron Enamel Coatings**  
Ak A., Çöpoğlu N., Yılmaz Y. B. , Cengiz T., Çiçek B.  
International Metallurgy and Materials Congress-IMMC2021, İstanbul, Turkey, 10 - 12 June 2021, pp.195-198
- II. **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
- III. **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

- IV. **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
- V. **Tribolojik ve Mekanik Özellikleri Arttırılmış B2O3 Katkılı Solgel Seramik Kaplamaların Geliştirilmesi**  
Çiçek B., Çimen O., Alboğa H.  
International Symposium on Boron, Nevşehir, Turkey, 17 - 19 April 2019, pp.347-350
- VI. **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
- VII. **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
- VIII. **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
- IX. **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 (Kkct), 5 - 08 November 2018, pp.209
- X. **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
- XI. **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
- XII. **Synthesis of B4C Powders Via Different Carbothermal Reduction Methods**  
Çiçek B., Somer M., Balci Ö., Coşut Ö., Kiraz K.  
SERES'18, Eskişehir, Turkey, 10 - 12 October 2018, pp.540-541
- XIII. **Synthesis and Chracterization 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
- XIV. **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
- XV. **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
- XVI. **Fabrication and Characterization of a Novel Polyvinylidene Fluoride Hollow Fiber Ultrafiltration Membranes Blended with 3- Aminopropyltriethoxsilane Grated Halloysite Nanotubes: A Preliminary Study**  
Çiçek B., Subasi Y.  
IMSEC2017, Adana, Turkey, 25 - 27 October 2017, pp.1988
- XVII. **Antifouling properties of BN doped hollow fiber Membranes**

ÇİÇEK B., subasi y.

IMSEC2017, Adana, Turkey, 20 September 2017

**XVIII. 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

**XIX. 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

**XX. 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

**XXI. 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

Çiçek B., Project Supported by Other Official Institutions, Modakrilik Elyafın Alev Geciktirici Özelliğinin Arttırmak için Nano Boyutta Çinko Borat Kullanımı, 2015 - 2017

Çiçek B., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Kolemanit ve Üleksit Atıklarının Seramik Sektöründe Değerlendirilmesi Projesi, 2015 - 2017

ÇİÇEK B., KARAASLAN A., TUBITAK Project, Atıkların Kullanımı İle Metal-Cam Seramik Kompozit Sırların Geliştirilmesi, 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):54

h-index (WOS):4