

## Assoc. Prof. MÜGE TARHAN

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-6985-3085

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### Education Information

Doctorate, Anadolu University, Fen Bilimleri Enstitüsü, Seramik Mühendisliği (Dr), Turkey 2004 - 2010

Undergraduate, Anadolu University, Mühendislik-Mimarlık Fakültesi, Malzeme Bilimi Ve Mühendisliği Bölümü, Turkey 1999 - 2004

### Academic Titles / Tasks

Associate Professor, Usak University, GÜZEL SANATLAR FAKÜLTESİ, Seramik Bölümü, 2017 - Continues

### Academic and Administrative Experience

Usak University, 2020 - Continues

Usak University, 2019 - Continues

### Courses

SERAMİK ASTAR VE BOYALARI - I, Undergraduate, 2018 - 2019

HAMMADDE VE TEMEL İŞLEMLER, Undergraduate, 2018 - 2019, 2017 - 2018

SERAMİK TEKNOLOJİSİ, Undergraduate, 2018 - 2019

UZMANLIK ALAN DERSİ, Postgraduate, 2018 - 2019

SERAMİK TEKNOLOJİSİ II, Undergraduate, 2018 - 2019, 2017 - 2018

GÜNCEL SERAMİK SANATI II, Postgraduate, 2018 - 2019

GÜNCEL SANAT YORUMU II, Postgraduate, 2018 - 2019

SERAMİK ASTAR VE BOYALARI - II, Undergraduate, 2018 - 2019

SERAMİK TEKNOLOJİSİ VE TASARIMI - I, Undergraduate, 2018 - 2019

SERAMİK TEKNOLOJİSİ VE TASARIMI - II, Undergraduate, 2018 - 2019

SERAMİK SIRLAMA VE PİŞİRİM YÖNTEMLERİ, Undergraduate, 2018 - 2019, 2017 - 2018

SERAMİK TEKNOLOJİSİ - I, Undergraduate, 2018 - 2019

TEZ ÇALIŞMASI, Postgraduate, 2018 - 2019

MALZEMELERİN KRİSTAL YAPISI, Undergraduate, 2018 - 2019

SERAMİK KİMYASI, Undergraduate, 2018 - 2019, 2017 - 2018

REFRAKTER MALZEMELER, Undergraduate, 2018 - 2019, 2017 - 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Utilization of perlite as an alternative raw material in the production of ceramic sanitaryware**  
Tarhan B., TARHAN M.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.147, no.5, pp.3509-3518, 2022 (SCI-Expanded)
- II. **Investigation of the usability of Sille stone as additive in floor tiles**  
Öztürk Ç., Akpınar S., TARHAN M.  
Journal of the Australian Ceramic Society, vol.57, no.2, pp.567-577, 2021 (SCI-Expanded)
- III. **Development of waterproof engobe layer for ceramic wall tiles**  
TARHAN M., Tarhan B.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.140, no.2, pp.555-565, 2020 (SCI-Expanded)
- IV. **The effect of zircon particle size on the surface properties of sanitaryware glaze**  
TOPATEŞ G., Alici B., Tarhan B., TARHAN M.  
Materials Research Express, vol.7, no.1, 2020 (SCI-Expanded)
- V. **Whiteness improvement of porcelain tiles incorporated with anorthite and diopside phases**  
TARHAN M.  
Journal of Thermal Analysis and Calorimetry, vol.138, no.2, pp.929-936, 2019 (SCI-Expanded)
- VI. **Addition of cement kiln dust in ceramic wall tile bodies**  
Aydin T., TARHAN M., Tarhan B.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.136, no.2, pp.527-533, 2019 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Alümina Porselen Bünyelerde Spodumen İlavesinin Teknik Özelliklere Etkisinin Araştırılması**  
TARHAN Ş. B., TARHAN M.  
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.14, no.1, pp.262-270, 2022 (Peer-Reviewed Journal)
- II. **The Effect of Mould Filling on the Mechanical Properties of Wall Tile Production**  
TARHAN M., TARHAN Ş. B., AYDIN T.  
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.13, no.3, pp.40-48, 2021 (Peer-Reviewed Journal)
- III. **Sırlı Porselen Karo Üretimi için Alternatif Hammadde Olarak Eşme/Uşak Feldispatı**  
TARHAN M., TARHAN Ş. B.  
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.19, no.2, pp.429-438, 2019 (Peer-Reviewed Journal)
- IV. **Çanakkale bölgesi alkali kaynağının seramik sağlık gereçleri bünyesi ısı ve mikroyapı özellikleri üzerine etkisi**  
TARHAN Ş. B., TARHAN M.  
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.10, no.2, pp.675-687, 2019 (Peer-Reviewed Journal)
- V. **Investigation Of The Usage Of Afyon Clay In Porcelain Tile Bodies**  
Tarhan M., TARHAN B.  
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.11, no.1, pp.275-281, 2019 (Peer-Reviewed Journal)
- VI. **Üç Boyutlu Formlar İçin Metalik Sır Kompozisyonlarının Geliştirilmesi**  
YILDIZ A., TARHAN M.  
Social Sciences Studies Journal, vol.5, no.38, pp.3494-3500, 2019 (Peer-Reviewed Journal)
- VII. **Use of Konya Clay for Porcelain Tile Productions**  
Tarhan M.  
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.11, no.2, pp.705-712, 2019 (Peer-Reviewed Journal)
- VIII. **Perlit Kullanımının Seramik Duvar Karosu Teknik Özelliklerine Etkisi**  
TARHAN M., TARHAN Ş. B.  
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, vol.10, no.1, pp.94-100, 2018 (Peer-Reviewed Journal)
- IX. **Deformação de queima em grés porcelanato de grande formato: Efeito das variáveis de composição e de processo**

Sanchez E., Sanz V., Bordes M., SALES J., KAYACI K., TAŞKIRAN U., ANIL Ü. E., TÜRK Ş., TARHAN M.  
Cerâmica industrial, vol.23, no.2, pp.7-16, 2018 (Non Peer-Reviewed Journal)

X. **Comparação entre as Tecnologias de Moagem a Seco como Referência para os Parâmetros Tecnológicos do Grânulo Formado**

KAYACI K., YILDIRIM Y., TARHAN M., DURGUT E., ERGİN H.  
Cerâmica Industrial, vol.22, no.1, pp.7-14, 2017 (Non Peer-Reviewed Journal)

## Books & Book Chapters

I. **Bölüm 14-Tam Parlatılmış (Full Lappato) Porselen Karo Sırlarında Kompozisyona Bağlı Olarak Gözenek Gelişimi**

TARHAN M., TARHAN Ş. B.

in: Interdisciplinary studies on contemporary research practices in engineering in the 21st century- V, Kamil Kaygusuz, Editor, Ozgur Press, İstanbul, pp.259-270, 2023

## Refereed Congress / Symposium Publications in Proceedings

I. **FARKLI ALKALİ KAYNAKLARININ ALÜMİNA KATKILI PORSELEN BÜNYE TEKNİK ÖZELLİKLERİNE ETKİSİ**

TARHAN Ş. B., TARHAN M.

4. ULUSLARARASI MÜHENDİSLİK BİLİMLERİ VE MULTİDİSİPLİNER YAKLAŞIMLAR KONGRESİ, İstanbul, Turkey, 03 November 2022, vol.1, pp.125-132

II. **DUVAR KAROSU BÜNYELERİNDE KAOLEN YERİNE SÜREÇ ATIĞI KULLANIMININ ARAŞTIRILMASI**

TARHAN M., TARHAN Ş. B.

4. ULUSLARARASI MÜHENDİSLİK BİLİMLERİ VE MULTİDİSİPLİNER YAKLAŞIMLAR KONGRESİ, İstanbul, Turkey, 03 November 2022, vol.1, pp.133-140

III. **Investigation Of The Use Of Oligoclase Mineral Instead Of Albite In Wall Tile Engobe Frits**

TARHAN M., TARHAN Ş. B.

Ahi Evran International Conference on Scientific Research, Turkey, 01 December 2021, vol.2, pp.30-37

IV. **The Effect Of Alkaline/Earth Alkaline Ratio On The Technical Properties Of Ceramic Wall Tile Engobes**

TARHAN Ş. B., TARHAN M.

Ahi Evran International Conference on Scientific Research, Turkey, 01 December 2021, vol.2, pp.38-44

V. **INVESTIGATION OF THE USE OF OLIGOCLASE MINERAL INSTEAD OF ALBITE IN WALL TILE ENGOBE FIRITS**

TARHAN M., TARHAN Ş. B.

AHI EVRAN Uluslararası Bilimsel Araştırmalar Kongresi, Kırşehir, Turkey, 30 November - 02 December 2021, vol.2, pp.151-158

VI. **Effect of Perlite Addition on Technological Properties of Sanitaryware Body Composition**

TARHAN Ş. B., TARHAN M.

The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, IMSMATEC'19, 21 - 23 June 2019

VII. **Improvement of Rheological Properties of Porcelain Tile Slips Containing Bentonite**

SÜRÜCÜ F., TARHAN M., KILIÇ E.

The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, IMSMATEC'19, 21 - 23 June 2019

VIII. **Decreasing Zircon Content of Floor Tile Engobe Compositions by Using Titanium Based Frit**

TARHAN M.

The International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology,

IMSMATEC'19, 21 - 23 June 2019

- IX. EFFECT PERLITE ADDITION ON TECHNOLOGICAL PROPERTIES OF SANITARYWARE BODY COMPOSITION**  
TARHAN Ş. B., TARHAN M.  
International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology in Cappadocia / TURKEY (IMSMATEC 2019), Nevşehir, Turkey, 21 - 23 June 2019, vol.1, pp.1077-1079
- X. Effect Of Leather Waste Addition on The Properties of Ceramic Wall Tiles**  
TEBER S., KILIÇ E., TARHAN M., TARHAN Ş. B.  
SERES'18 "IV. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress, 10 - 12 October 2018
- XI. Investigation Of Engobe Opacity Depending On Frit Type In Ceramic Wall Tile Engobes**  
TARHAN M., TARHAN Ş. B.  
3. International Conference on Material Science and Technology in Cappadocia, IMSTEC2018, 17 - 19 September 2018
- XII. The Effect of Using Perlite on The High-Temperature Deformation of The Vitreous Chine Body**  
TARHAN Ş. B., TARHAN M.  
3. International Conference on Material Science and Technology in Cappadocia, IMSTEC'18, 17 - 19 September 2018
- XIII. Investigation On The Mechanical Properties Of Using Local Clay Instead Of Ukraine Clay In Porcelain Tile Body**  
TARHAN M., TARHAN Ş. B.  
4th International Conference on Engineering and Natural Sciences (ICENS), 2 - 06 May 2018
- XIV. The Effect of Wall Tile Wastes on The High-Temperature Deformation of Fireclay Sanitaryware Products**  
TARHAN Ş. B., TARHAN M.  
4th International Conference on Engineering and Natural Sciences (ICENS), 2 - 06 May 2018
- XV. Effect Of Engobe Permeability On Watermark Problem Of Ceramic Wall Tiles**  
TARHAN M.  
4th International Conference on Engineering and Natural Sciences (ICENS), 2 - 06 May 2018
- XVI. Firing Deformation in Large Size Porcelain Tiles. Effect of Compositional and Process Variables**  
SANCHEZ E., Sanz V., Bordes M. C., Sales J., TAŞKIRAN U., KAYACI K., ANIL Ü. E., TÜRK Ş., TARHAN M.  
Qualicer 2018, 12 - 13 February 2018
- XVII. Influencing Factors of Curvature Problems In Large Format Monoporosa Ceramic Wall Tiles**  
TARHAN M., TARHAN Ş. B., KAYACI K., KARA F.  
1. International University Industry Cooperation, RD And Innovation Congress, 18 - 19 December 2017
- XVIII. Usage Of Local Alkaline Raw Materials In Ceramic Sanitaryware Body Composition**  
TARHAN Ş. B., TARHAN M., SARI H.  
1. International University Industry Cooperation, RD And Innovation Congress, 18 - 19 December 2017
- XIX. Comparison of Dry Grinding Technologies as a Reference of Ceramic Granule Technological Parameters**  
KAYACI K., YILDIRIM Y., TARHAN M., DURGUT E., ERGİN H.  
QUALICER, 8 - 09 February 2016
- XX. Effect of Composition on Moisture Expansion of Porous Ceramic Bodies**  
TARHAN M., KAYACI K., KARA F., ÇİĞDEMİR G.  
ECERS 14th International Conference and Exhibition of the European Ceramic Society, 21 - 25 June 2015
- XXI. Effect of Compositional Modification on Sintering Behaviour of Porcelain Tiles**  
TARHAN M., KARA F.  
1st Iran International Conference on Tile, Ceramic and Sanitaryware, ICTS 2014, 29 November - 01 December 2014
- XXII. Porselen Karo Bünyelerinde Sinterleme Hızının Arttırılması**  
KARA F., TARHAN M.  
VIII. Uluslararası Katılımlı Seramik Kongresi, Afyonkarahisar, Turkey, 22 - 24 November 2012

**XXIII. The Investigation of Amorphous Phase Compositions for Porcelain Tile Bodies**

TARHAN M., KARA F., AYDIN EĐRİ F.

SERES 2009 I. International Ceramic, Glass, Porcelain, Enamel, Glaze and Pigment Congress, 12 - 14 October 2009

**Metrics**

Publication: 40

Citation (Scopus): 49

H-Index (Scopus): 4

**Non Academic Experience**

Kaleseramik Çanakkale Kalebodur Seramik San.A.Ş.

Kaleseramik Çanakkale Kalebodur Seramik San.A.Ş.

Seranit Granit Seramik San. ve Tic.A.Ş. Serra Seramik İnönü Fabrikası

Kütahya Porselen A.Ş. Kütahya Seramik Fabrikaları

Toprak Seniteri ve Turizm İşletmeleri San. ve Tic. A.Ş. Eskişehir Karo Fabrikası