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Education Information

Doctorate, Kirikkale University, İnşaat Mühendisliği , Turkey 2016 - 2020

Postgraduate, Kirikkale University, Turkey 2011 - 2014

Undergraduate, Erciyes University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2000 - 2006

Research Areas

Civil Engineering

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of thermal and mechanical properties of perlite-based lightweight geopolymer composites**
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- II. **The Effect of Magnetized Water on the Fresh and Hardened Properties of Slag/Fly Ash-Based Cementitious Composites**
Sevim O., Demir I., Alakara E. H., Guzelkucuk S., Bayer I. R.
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- III. **Fresh and Hardened Properties of Cementitious Composites Incorporating Firebrick Powder from Construction and Demolition Waste**
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- IV. **Mechanical properties and microstructure of cement multicomponent systems containing pozzolan materials under sulfate attack**
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- V. **Effects of sulfate on cement mortar with hybrid pozzolan substitution**
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Articles Published in Other Journals

- I. **Perlit Esaslı Geopolimer Kompozitlere Kür Süresi Ve Sıcaklığın Etkisi**
GÜZELKÜÇÜK S., DEMİR İ.
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- II. **Examination of Microstructure of Fly Ash in Cement Mortar**
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International Journal of Advances in Mechanical and Civil Engineering, vol.5, no.1, pp.49-51, 2018 (Peer-Reviewed Journal)
- III. **Microstructural Evaluation of Cement Mortars with Blast Furnace Slag Exposed to Sulfate Attack**
DEMİR İ., GÜZELKÜÇÜK S., SEVİM Ö., FİLAZİ A., Sengül C. G.
INTERNATIONAL SCIENTIFIC AND VOCATIONAL JOURNAL (ISVOS JOURNAL), vol.2, no.1, pp.8-18, 2018 (Peer-Reviewed Journal)
- IV. **Sepiyolit İkame Edilmiş Gazbetonun Isıl ve Basınç Dayanım Özellikleri**
Savaş M., DEMİR İ., GÜZELKÜÇÜK S., Sengül C. G., YAPRAK H.
Politeknik Dergisi, vol.17, no.1, pp.43-47, 2014 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Curing Temperature on Slag-Based Geopolymer Composites Incorporating Raw Perlite Powder**
KORKMAZ S., DEMİR İ., GÜZELKÜÇÜK S., SEVİM Ö.
4th International Advanced Engineering Technologies, Bayburt, Turkey, 28 September 2022, pp.619-626
- II. **Kompoze Taban Külü ve Yüksek Fırın Cürufu İkameli Çimento Harçlarının Sülfata Karşı Dayanım ve Dayanıklılığının İncelenmesi**
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- III. **Kompoze Taban Külü ve Uçucu Kül İkameli Çimento Harçlarının Sülfata Karşı Dayanım ve Dayanıklılığının İncelenmesi, International Conference on Innovation**
GÜZELKÜÇÜK S., DEMİR İ., FİLAZİ A., SEVİM Ö.
Sustainability, Technology and Education in Civil Engineering, Iskenderun, Hatay., Turkey, 13 - 15 June 2019
- IV. **Effect of Fly Ash Having Optimized Particle Size Distribution on Alkali Silica Reaction According to Accelerated Mortar Bar Test Method**
DEMİR İ., SİVRİKAYA B., SEVİM Ö., FİLAZİ A., GÜZELKÜÇÜK S.
10. International Concrete Congress-Recent Advances in Concrete Technology, Bursa, Turkey, 2 - 04 May 2019, pp.585-591
- V. **Mechanical Effect Of Blast Furnace Slag Substitution On Different Cement Types**
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4th International Conference on Civil Environmental, Geology and Mining Engineering, Trabzon, Turkey, 20 - 22 April 2019
- VI. **Mechanical Effect Of Fly Ash Substitution On Different Cement Types**
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- VII. **C Sınıfı Uçucu Kül İkameli Çimento Harcının Mekanik Özelliklerine Etkisi**
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- VIII. **F Sınıfı Uçucu Kül İkameli Çimento Harcının Mekanik Özelliklerine Etkisi**
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Turkey, 26 - 27 March 2019, pp.140-147

IX. Examination of Microstructure of Fly Ash in Cement Mortar

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X. The Effect of Mechanical Strength of Red Mud

DEMİR İ., FİLAZİ A., SEVİM Ö., GÜZELKÜÇÜK S.

2nd INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, Nevşehir, Turkey, 8 - 10 May 2017, pp.838

XI. The Effect of Mechanical Strength of Blast Furnace Slag Fineness

DEMİR İ., FİLAZİ A., SEVİM Ö., KALKAN İ., GÜZELKÜÇÜK S., KARTAL S.

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XII. The Effect of Mechanical Strength of Ground Fly Ash Fineness

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XIV. Mechanical Effect of Composed Fly Ash and Blast Furnace Slag Replacement on Cement Mortars

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8. Uluslararası Kırmataş Sempozyumu Bildiriler Kitabı, Ttabzon, Turkey, 13 - 14 October 2016, pp.306-312