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Personal Information

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International Researcher IDs

ScholarID: h1GAY2QAAAAJ

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Publons / Web Of Science ResearcherID: A-9812-2018

ScopusID: 57202955684

Yoksis Researcher ID: 257955

Education

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği A.B.D., Turkey 2019 - 2024

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), Turkey 2016 - 2019

Undergraduate, Gaziantep University, Faculty Of Engineering, Department Of Civil Engineering (English), Turkey 2010 - 2015

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Engineering and Technology

Academic Positions

Assistant Professor, Gazi University, Teknoloji Fakültesi, İnşaat Mühendisliği, 2025 - Continues

Research Assistant, Gazi University, Teknoloji Fakültesi, İnşaat Mühendisliği, 2019 - 2025

Research Assistant, Antalya Bilim University, Faculty Of Engineering, Department Of Civil Engineering, 2016 - 2019

Journal articles indexed in SCI, SSCI, and AHCI

- Innovative solutions on ductility and bearing capacity: Strengthening flexural performance of reinforced concrete beams with recycled face mask fibers**
ÖZDEMİR A., BOZYİĞİT B., Demircan R. K., MERCİMEK Ö., ÇELİK D. N., AKKAYA S. T., KAPLAN G.
Construction and Building Materials, vol.458, 2025 (SCI-Expanded)
- High-conductivity cementitious composites suited for flooring applications: Effect of mixing methods**

and utilization rates of conductive materials

ÇELİK D. N., Belendir U., Ardogan M. K., YILDIRIM G., ŞAHMARAN M.
Journal of Building Engineering, vol.87, 2024 (SCI-Expanded)

- III. **Effect of waste COVID-19 face masks on self-compacting high-strength mortars exposed to elevated temperature**
Durmuş G., Çelik D. N., Kılıç Demircan R., Kaplan G.
Ain Shams Engineering Journal, vol.14, no.8, 2023 (SCI-Expanded)
- IV. **The effect of animal and synthetic fibers on the physico-mechanical durability and microstructure properties of natural hydraulic lime-based mortars**
Demircan R. K., Tayeh B. A., ÇELİK D. N., KAPLAN G., Tobbala D. E.
Materials Today Communications, vol.35, 2023 (SCI-Expanded)
- V. **The engineering properties of high strength mortars incorporating juniper seed ash calcined at different temperatures: Comparison with other SCMs**
ÇELİK D. N., Demircan R. K., Shi J., KAPLAN G., DURMUŞ G.
Powder Technology, vol.422, 2023 (SCI-Expanded)
- VI. **The development of ultralightweight expanded perlite-based thermal insulation panel using alkali activator solution**
Çelik D. N., Durmuş G.
Frontiers of Structural and Civil Engineering, vol.16, no.11, pp.1486-1499, 2022 (SCI-Expanded)
- VII. **High temperature resistant restoration mortar with fly ash and GGBFS**
Demircan R. K., KAPLAN G., Çelik D. N.
JOURNAL OF SUSTAINABLE CEMENT-BASED MATERIALS, vol.11, no.6, pp.418-438, 2022 (SCI-Expanded)
- VIII. **Self-monitoring of flexural fatigue damage in large-scale steel-reinforced cementitious composite beams**
Çelik D. N., Yıldırım G., Al-Dahawi A., Ulugöl H., Han B., Şahmaran M.
CEMENT & CONCRETE COMPOSITES, vol.123, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **Determination of surface properties of different formwork release agents on strength concrete**
Durmuş G., Çelik D. N., K. Demircan R., Ç. Demirci E.
Materials Today: Proceedings, vol.81, pp.68-73, 2023 (Scopus)
- II. **Genleştirilmiş perlitin ısı yalıtım teknolojilerinde kullanılabilirliğinin incelenmesi**
ULUER O., KARAAĞAÇ İ., AKTAŞ M., DURMUŞ G., AĞBULUT Ü., KHANLARI A., ÇELİK D. N.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.24, no.1, pp.36-42, 2018 (Peer-Reviewed Journal)
- III. **Mathematical calculation and experimental investigation of expanded perlite based heat insulation materials' thermal conductivity values**
Uluer O., Aktas M., KARAAĞAÇ İ., DURMUŞ G., Khanlari A., Agbulut U., Çelik D. N.
Journal of Thermal Engineering, vol.4, no.5, pp.2274-2286, 2018 (Scopus)
- IV. **An investigation of usability of expanded perlite in heat insulation technologies**
ULUER O., KARAAĞAÇ İ., AKTAŞ M., DURMUŞ G., Agbulut U., Khanlari A., ÇELİK D. N.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.1, pp.36-42, 2018 (ESCI)

Books

- I. **A Study on Some Factors Affecting on CO2 Curing of Expanded Pearlite Based Thermal Insulation Panel**
DURMUŞ G., ULUER O., AKTAŞ M., KARAAĞAÇ İ., Khanlari A., AĞBULUT Ü., ÇELİK D. N.

in: Proceedings of 3rd International Sustainable Buildings Symposium (ISBS 2017), Fırat, Seyhan, Kinuthia, John, Abu-Tair, Abid, Editor, Springer, New York, pp.61-70, 2017

Papers Presented at Peer-Reviewed Scientific Conferences

I. A Study on Some Factors Affecting on CO₂ Curing of Expanded Perlite Based Thermal Insulation Panel

DURMUŞ G., ULUER O., AKTAŞ M., KARAAĞAÇ İ., Khanlari A., Agbulut U., ÇELİK D. N.

3rd International Sustainable Buildings Symposium (ISBS), U ARAB EMIRATES, 15 - 17 March 2017, vol.7, pp.61-70, (Full Text)

II. Manufacturing of Expanded Perlite Based Heat Insulation Material Using Theoretical Thermal Conductivity Prediction Model Results

ULUER O., AKTAŞ M., KARAAĞAÇ İ., DURMUŞ G., KHANLARI A., AĞBULUT Ü., ÇELİK D. N.

International Conference on Progres in APPLIED SCIENCE 2017 (ICPAS 2017), İstanbul, Turkey, 4 - 06 January 2017, pp.156-161, (Full Text)

Funded Projects

Şahmaran M., TUBITAK Project, Elektrostatik Yük Boşaltma Kabiliyetine Sahip Yeni Nesil Çimento Bağlayıcılı Sistemler, 2019 - 2021

TUBITAK Project, YÜKSEK ISIL DİRENÇLİ GENLEŞTİRİLMİŞ PERLİT ESASLI VE KARBONDİOKSİT HÜCRELİ ISI YALITIM LEVHASININ GELİŞTİRİLMESİ, 2015 - 2018

Metrics

Publication: 15

Citation (WoS): 73

Citation (Scopus): 79

H-Index (WoS): 5

H-Index (Scopus): 6

Scholarships

2214-A Doktora Sırasında Araştırma Bursu, TUBITAK, 2022 - 2023

Awards

Çelik D. N., Kılıç Demircan R., Shi J., Kaplan G., Durmuş G., The engineering properties of high strength mortars incorporating juniper seed ash calcined at different temperatures: Comparison with other SCMs, Tubitak Yayın Teşvik Ödülü, January 2023

Çelik D. N., GÜMÜŞ MADALYA, Bilim Sanayi Ve Teknoloji Bakanlığı, January 2021

Non Academic Experience

RÖNESANS HOLDİNG, İNTÖRN MÜHENDİS