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Araştırma Alanları

İnşaat Mühendisliği

Akademik Unvanlar / Görevler

Araştırma Görevlisi Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2019 - Devam Ediyor
Araştırmacı, Technische Universiteit Eindhoven, Department of Built Environment, Structural Engineering and Design, 2023 - 2024

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Optimizing mechanical performance of geopolymers produced from construction and demolition waste: A comparative study of materials from different origins**
KUL A., Ozcelikci E., ÖZEL B. F., İLCAN H., ŞAHİN O., Gunal M. F., YILDIRIM G., ŞAHMARAN M.
Construction and Building Materials, cilt.426, 2024 (SCI-Expanded)
- II. **Evaluation of Mechanical and Microstructural Properties of Engineered Geopolymer Composites with Construction and Demolition Waste-Based Matrices**
KUL A., Ozcelikci E., ÖZEL B. F., Gunal M. F., YILDIRIM G., Bayer I. R., Demir I.
Journal of Materials in Civil Engineering, cilt.36, sa.1, 2024 (SCI-Expanded)
- III. **Characterization and life cycle assessment of geopolymer mortars with masonry units and recycled concrete aggregates assorted from construction and demolition waste**
KUL A., Ozel B. F., Ozcelikci E., Gunal M. F., ULUGÖL H., YILDIRIM G., ŞAHMARAN M.
Journal of Building Engineering, cilt.78, 2023 (SCI-Expanded)
- IV. **Effect of industrial waste-based precursors on the fresh, hardened and environmental performance of construction and demolition wastes-based geopolymers**
İLCAN H., ŞAHİN O., Unsal Z., Ozcelikci E., KUL A., Çağatay Demiral N., YEMİŞÇİ ÖZKAN M., ŞAHMARAN M.
Construction and Building Materials, cilt.394, 2023 (SCI-Expanded)
- V. **A comprehensive study on the compressive strength, durability-related parameters and microstructure of geopolymer mortars based on mixed construction and demolition waste**
Ozcelikci E., KUL A., Gunal M. F., ÖZEL B. F., YILDIRIM G., Ashour A., ŞAHMARAN M.
Journal of Cleaner Production, cilt.396, 2023 (SCI-Expanded)

- VI. **Construction and demolition waste-based self-healing geopolymer composites for the built environment: An environmental profile assessment and optimization**
Mir N., Khan S. A., KUL A., ŞAHİN O., Ozcelikci E., ŞAHMARAN M., Koc M.
Construction and Building Materials, cilt.369, 2023 (SCI-Expanded)
- VII. **Rheological property and extrudability performance assessment of construction and demolition waste-based geopolymer mortars with varied testing protocols**
İLCAN H., ŞAHİN O., KUL A., Ozcelikci E., ŞAHMARAN M.
Cement and Concrete Composites, cilt.136, 2023 (SCI-Expanded)
- VIII. **Mechanical anisotropy evaluation and bonding properties of 3D-printable construction and demolition waste-based geopolymer mortars**
Demiral N. C., Ekinci M. O., ŞAHİN O., İLCAN H., KUL A., YILDIRIM G., ŞAHMARAN M.
CEMENT & CONCRETE COMPOSITES, cilt.134, 2022 (SCI-Expanded)
- IX. **Energy-environmental performance assessment and cleaner energy solutions for a novel Construction and Demolition Waste-based geopolymer binder production process**
Khan S. A., KUL A., ŞAHİN O., ŞAHMARAN M., Al-Ghamdi S. G., Koç M.
Energy Reports, cilt.8, ss.14464-14475, 2022 (SCI-Expanded)
- X. **Rheological properties and compressive strength of construction and demolition waste-based geopolymer mortars for 3D-Printing**
İLCAN H., Sahin O., KUL A., YILDIRIM G., ŞAHMARAN M.
CONSTRUCTION AND BUILDING MATERIALS, cilt.328, 2022 (SCI-Expanded)
- XI. **Construction and demolition waste-based geopolymers suited for use in 3-dimensional additive manufacturing**
Sahin O., Ilcan H., Atesli A. T., KUL A., YILDIRIM G., ŞAHMARAN M.
CEMENT & CONCRETE COMPOSITES, cilt.121, 2021 (SCI-Expanded)
- XII. **Mechanical and microstructural characterization of geopolymers from assorted construction and demolition waste-based masonry and glass**
ULUGÖL H., KUL A., Yildirim G., ŞAHMARAN M., ALDEMİR A., Figueira D., Ashour A.
JOURNAL OF CLEANER PRODUCTION, cilt.280, 2021 (SCI-Expanded)
- XIII. **Development of alkali-activated binders from recycled mixed masonry-originated waste**
Yildirim G., KUL A., Ozcelikci E., ŞAHMARAN M., ALDEMİR A., Figueira D., Ashour A.
JOURNAL OF BUILDING ENGINEERING, cilt.33, 2021 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Life cycle assessment of construction and demolition waste-based geopolymers suited for use in 3-dimensional additive manufacturing**
Mir N., Khan S. A., KUL A., ŞAHİN O., ŞAHMARAN M., Koc M.
Cleaner Engineering and Technology, cilt.10, 2022 (Scopus)
- II. **Life cycle assessment of binary recycled ceramic tile and recycled brick waste-based geopolymers**
Mir N., Khan S. A., KUL A., ŞAHİN O., Lachemi M., ŞAHMARAN M., Koç M.
Cleaner Materials, cilt.5, 2022 (Scopus)
- III. **Construction and demolition waste-based geopolymers for built-environment: An environmental sustainability assessment**
Mir N., Khan S., KUL A., ŞAHİN O., ŞAHMARAN M., Koç M.
Materials Today: Proceedings, cilt.70, ss.358-362, 2022 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Construction and demolition waste-based geopolymers for 3- dimensional additive manufacturing in**

the built environment: An Environmental sustainability assessment

Mir N., Khan S. A., KUL A., ŞAHİN O., ŞAHMARAN M., KOÇ M.

International Conference of Additive Manufacturing for a Better World, Singapur, 23 Ağustos 2022

II. Life Cycle Assessment of construction and demolition waste-based geopolymers suited for use in 3-dimensional additive manufacturing

Mir N., Khan S., Al-Ghamdi S., KOÇ M., ŞAHİN O., ŞAHMARAN M., KUL A.

INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY-WATER-ENVIRONMENT NEXUS IN DESERT CLIMATE 2021, Qatar, 22 - 25 Kasım 2021

III. The buildability performance of construction demolition waste-based geopolymeric binder

ŞAHİN O., KUL A., YILDIRIM G., ŞAHMARAN M.

International Conference on Cement - Based Materials Tailored for a Sustainable Future, İstanbul, Türkiye, 27 Mayıs 2021, cilt.1, ss.376-388

Metrikler

Yayın: 19

Atıf (WoS): 47

Atıf (Scopus): 421

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H-İndeks (Scopus): 11