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Learning Knowledge

Doctorate 2012 - 2018	Manisa Celal Bayar University, Institute Of Science, İnşaat Mühendisliği, Turkey
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Postgraduate 2009 - 2012	Gazi University, Fen Bilimleri Enstitüsü, Turkey
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Undergraduate Minor 2005 - 2009	Suleyman Demirel University, Turkey
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Dissertations

Doctorate, Çimento teknolojisinde sürfaktanların kullanımı ile sürdürülebilir çimento üretimi, Manisa Celal Bayar University, Institute Of Science, İnşaat Mühendisliği, 2018

Academic Titles / Tasks

Associate Professor 2022 - Continues	Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği
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Assistant Professor 2020 - 2022	Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği
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Supported Projects

- KAPLAN G., AYDIN A. C., ÖZ A., Project Supported by Higher Education Institutions, Prepakt Betonlarda Atık Mermer Tozu ve Klinker Agregalı Geopolimer Bulamaçların Kullanılabilirliği, 2022 - 2023
- KAPLAN G., Project Supported by Higher Education Institutions, Atapulgit Esaslı Alkaliler İle Aktive Edilen

Malzemelerin (AAM) Durabilite ve Mikroyapı Özellikleri, 2022 - 2022

3. KAPLAN G., Project Supported by Higher Education Institutions, Hafif ve Yüksek Performanslı Çimento Esaslı Kompozitlerin Mikroyapı Özelliklerinin İncelenmesi, 2021 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Studying the metakaolin content, fiber type, and high-temperature effects on the physico-mechanical properties of fly ash-based geopolymer composites**
Bayrak B., Alcan H. G., Özelmacı Durmaz Ö. Ç., İpek S., KAPLAN G., Güneyisi E., AYDIN A. C.
Archives of Civil and Mechanical Engineering, vol.25, no.1, 2025 (SCI-Expanded)
2. **Sustainable Use of Waste Tire Rubbers in Eco-Friendly and Lightweight Alkali-Activated Slag-Silica Fume Mortars**
Dheyaaldin M. H., Bayraktar O. Y., ÖZ A., KAPLAN G.
Journal of Materials in Civil Engineering, vol.36, no.12, 2024 (SCI-Expanded)
3. **Sustainable use of recycled fine aggregates in steel fiber-reinforced concrete: Fresh, flexural, mechanical and durability characteristics**
Benli A., Bayraktar O. Y., KÖKSAL F., KAPLAN G.
Journal of Building Engineering, vol.97, 2024 (SCI-Expanded)
4. **Effect of hybrid fibers and high temperatures on the properties of geopolymer composites based on slag, metakaolin, and natural zeolite**
Tayeh B. A., Bayrak B., Zeyad A. M., KAPLAN G., ÖZ A., AYDIN A. C.
Construction and Building Materials, vol.451, 2024 (SCI-Expanded)
5. **Effect of quaternary binder slag-based geopolymer slurries on mechanical durability and microstructural properties of green prepacked composites**
Alcan H. G., Dheyaaldin M. H., Toklu K., Bayrak B., Kaplan G., Aydın A. C.
Construction and Building Materials, vol.450, 2024 (SCI-Expanded)
6. **Effect of $\text{Na}_2\text{SiO}_3/\text{NaOH}$ rate and natural zeolite content on basalt fiber reinforced eco-efficient slag-based geopolymer mortar synthesis**
Efe M., ÖZ A., Bayrak B., KAPLAN G., AYDIN A. C.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.24, no.4, 2024 (SCI-Expanded)
7. **Engineering and microstructural properties of environmentally friendly alkali-activated composites containing clinker aggregate: heat-curing regime and elevated-temperature effect**
Bayrak B., İpek S., Alcan H. G., Kaplan G., Aydın A. C., Güneyisi E.
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, vol.24, no.4, 2024 (SCI-Expanded)
8. **Performance assessment of fiber-reinforced coral aggregate-based lightweight foam concrete for sustainable marine construction**
Bayraktar O. Y., Danish A., Bodur B., Kaplan G., Aydın A. C., Ozbakkaloglu T.
Construction and Building Materials, vol.449, 2024 (SCI-Expanded)
9. **A study on sustainable foam concrete with waste polyester and ceramic powder: Properties and durability**
Bayraktar O. Y., Tunçtan M., Benli A., Türkel İ., Kızılay G., KAPLAN G.
Journal of Building Engineering, vol.95, 2024 (SCI-Expanded)
10. **Enhancing foam concrete: A comparative analysis of PLA+ fiber reinforcements with plain, hooked, and corrugated fibers**
Yildizel S. A., Acik M., KAPLAN G., Bayraktar O. Y.
Construction and Building Materials, vol.443, 2024 (SCI-Expanded)
11. **Effects of silica fume and rice husk ash contents on engineering properties and high-temperature resistance of slag-based prepacked geopolymers**
Bayrak B., Alcan H. G., Tanyıldızı M., Kaplan G., İpek S., Aydın A. C., Güneyisi E.
Journal of Building Engineering, vol.92, 2024 (SCI-Expanded)

12. **Mechanical and durability properties of polymer fiber reinforced one-part foam geopolymer concrete: A sustainable strategy for the recycling of waste steel slag aggregate and fly ash**
Ahiskalı A., Ahiskalı M., Bayraktar O. Y., KAPLAN G., Assaad J.
Construction and Building Materials, vol.440, 2024 (SCI-Expanded)
13. **Experimental study of bond behavior of geopolymer concrete under different curing condition using a pull-out test**
Bayrak B., Akarsu O., KILIÇ M., Alcan H. G., ÇELEBİ O., KAPLAN G., AYDIN A. C.
Construction and Building Materials, vol.439, 2024 (SCI-Expanded)
14. **Investigation on the sustainable use of different sizes of sawdust aggregates in eco-friendly foam concretes: Physico-mechanical, thermal insulation and durability characteristics**
Özkan İ. G. M., Aldemir K., Alhasan O., Benli A., Bayraktar O. Y., Yilmazoğlu M. U., KAPLAN G.
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15. **Valorization of Seawater as an Activator for Mixing and Curing Water in Mid-Strength Concrete Containing Class C Fly Ash: Strength, Economic and Environmental Benefits**
ARUNTAŞ H. Y., Korkmaz Y., Demir İ., KAPLAN G.
Iranian Journal of Science and Technology - Transactions of Civil Engineering, vol.48, no.4, pp.2049-2059, 2024 (SCI-Expanded)
16. **Recycling of waste crushed stone powder for alkali-activated material production**
Li Z., KAPLAN G.
Journal of Material Cycles and Waste Management, vol.26, no.4, pp.2413-2434, 2024 (SCI-Expanded)
17. **Impact of rice husk ash on physico-mechanical, durability and microstructural features of rubberized lightweight geopolymer composite**
Abdullah M. Z., Bayraktar O. Y., Bassam A., Öz A., Mütevelli Ozkan I. G., Kaplan G.
CONSTRUCTION AND BUILDING MATERIALS, vol.427, pp.1-15, 2024 (SCI-Expanded)
18. **FRACTURE PERFORMANCE OF FIBER REINFORCED GEOPOLYMER: SYNERGETIC PERSPECTIVE**
Gümüş M., Bayrak B., Alcan H. G., Kaplan G., Çelebi O., Aydın A. C.
JOURNAL OF BUILDING ENGINEERING, vol.91, no.12, pp.1-28, 2024 (SCI-Expanded)
19. **Durability of green rubberized 3D printed lightweight cement composites reinforced with micro attapulgate and micro steel fibers: Printability and environmental perspective**
Bodur B., Işık M. A. M., Benli A., Bayrak B., Öz A., Bayraktar O. Y., Kaplan G., Aydın A. C.
JOURNAL OF BUILDING ENGINEERING, vol.90, no.109447, pp.1-28, 2024 (SCI-Expanded)
20. **Sustainable use of silica fume and metakaolin in slag/fly ash-based self-compacting geopolymer composites: Fresh, physico-mechanical and durability properties**
Arslan S., Öz A., Benli A., Bayrak B., Kaplan G., Aydın A. C.
Sustainable Chemistry and Pharmacy, vol.38, 2024 (SCI-Expanded)
21. **Physical, mechanical and microstructural properties of one-part semi-lightweight geopolymers based on metakaolin modified with gypsum and lime**
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MATERIALS CHEMISTRY AND PHYSICS, vol.313, pp.1-21, 2024 (SCI-Expanded)
22. **Synergetic effect of fibers on geopolymers: Cost-effective and sustainable perspective**
Alcan H. G., Bayrak B., Öz A., Çelebi O., Kaplan G., Aydın A. C.
CONSTRUCTION AND BUILDING MATERIALS, vol.414, pp.1-14, 2024 (SCI-Expanded)
23. **Performance assessment and cost analysis of slag/metakaolin based rubberized semi-lightweight geopolymers with perlite aggregate: Sustainable reuse of waste tires**
Bayraktar O. Y., Benli A., Bodur B., ÖZ A., KAPLAN G.
Construction and Building Materials, vol.411, 2024 (SCI-Expanded)
24. **Feasibility of foam concrete using recycled brick and roof tile fine aggregates**
Bayraktar O. Y., Ahiskalı A., Ahiskalı M., Ekşioğlu F., KAPLAN G., Assaad J.
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25. **Physio-mechanical, durability and microstructural properties of sustainable permeable concrete reinforced with basalt fiber: reuse and recycling of waste polypropylene**

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26. **Utilizing genetic programming to evaluate and predict roller-compacted concrete pavements reinforced with coal powder and basalt fiber**
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27. **Assessment of the sustainability and producibility of adobe constructions reinforced with Ca-based binders: Environmental life cycle analysis (LCA) and 3D printability**
Genc G., Demircan R. K., BEYHAN F., KAPLAN G.
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28. **The behavior of cold-formed steel geopolimetric composites**
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29. **The Mechanical and Fracture Characteristics of Low Fiber Content Slurry-Infiltrated Fiber Concrete**
Gümüş M., Bayrak B., ÇELEBİ O., Alcan H. G., KAPLAN G., ÖZ A., AYDIN A. C.
Iranian Journal of Science and Technology - Transactions of Civil Engineering, vol.47, no.6, pp.3345-3356, 2023 (SCI-Expanded)
30. **Sustainable one-part alkali activated slag/fly ash Geo-SIFCOM containing recycled sands: Mechanical, flexural, durability and microstructural properties**
Bayraktar O. Y., Bozkurt T. H., Benli A., KÖKSAL F., Türkoğlu M., KAPLAN G.
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31. **Improving the eco-efficiency of fiber reinforced composite by ultra-low cement content/high FA-GBFS addition for structural applications: Minimization of cost, CO₂ emissions and embodied energy**
KAPLAN G., Bayraktar O. Y., Li Z., Bodur B., Yilmazoglu M. U., Alcan B. A.
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32. **Metakaolin-based geopolymer concretes for nuclear protection: On the perspective of physicochemical, durability, and microstructure**
Bayrak B., Kaplan G., Öz A., Kavaz E., Çelebi O., Alcan H. G., Mohabbi M., Aydin A. C.
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33. **Effect of using wastewater from the ready-mixed concrete plant on the performance of one-part alkali-activated GBFS/FA composites: Fresh, mechanical and durability properties**
Bodur B., Bayraktar O. Y., Benli A., KAPLAN G., Tobbala D. E., Tayeh B.
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34. **The plastic hinge length prediction of RC members by using ANN**
Bayrak B., Akarsu O., KAPLAN G., AYDIN A. C.
Sadhana - Academy Proceedings in Engineering Sciences, vol.48, no.3, 2023 (SCI-Expanded)
35. **Effect of waste COVID-19 face masks on self-compacting high-strength mortars exposed to elevated temperature**
DURMUŞ G., Nur Çelik D., Kılıç Demircan R., KAPLAN G.
Ain Shams Engineering Journal, vol.14, no.8, 2023 (SCI-Expanded)
36. **Physico-mechanical and microstructural properties of waste geopolymer powder and lime-added semi-lightweight geopolymer concrete: Efficient machine learning models**
Da Silveira Maranhão F., De Souza Junior F. G., Soares P., Alcan H. G., Çelebi O., Bayrak B., Kaplan G., Aydın A. C.
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37. **Synergic effect of some waste pozzolans on the mechanical and shielding properties of geopolymer concretes**
Bayrak B., ÖZ A., KAVAZ E., KAPLAN G., ÇELEBİ O., Alcan H. G., AYDIN A. C.
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38. **A comprehensive characterization on geopolymer concretes with low content slag and quartz aggregates: the shielding features**
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39. **Characterization study of geopolymers concretes fabricated with clinker aggregates**
Öz A., Bekem Kara İ., Bayrak B., Kavaz E., Kaplan G., Cüneyt Aydın A. C.
Construction and Building Materials, vol.384, 2023 (SCI-Expanded)
40. **The effect of clinker aggregate on acid resistance in prepacked geopolymers containing metakaolin and quartz powder in the presence of ground blast furnace slag**
Bayrak B., Mostafa S. A., ÖZ A., Tayeh B. A., KAPLAN G., AYDIN A. C.
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41. **Effect of cement clinker type, curing regime and activator dosage on the performance of one-part alkali-activated hybrid slag/clinker composites**
Turkoglu M., Bayraktar O. Y., Benli A., KAPLAN G.
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42. **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)
43. **Insulating and fire-resistant performance of slag and brick powder based one-part alkali-activated lightweight mortars**
KÖKSAL F., BAYRAKTAR O. Y., Bodur B., BENLİ A., KAPLAN G.
STRUCTURAL CONCRETE, vol.24, no.3, pp.3128-3146, 2023 (SCI-Expanded)
44. **Application of natural fibres in cement concrete: A critical review**
Hamada H. M., Shi J., Al Jawahery M. S., Majdi A., Yousif S. T., KAPLAN G.
Materials Today Communications, vol.35, 2023 (SCI-Expanded)
45. **Optimization of without SCM concrete exposed to seawater according to minimum cost and CO₂ emissions: Sustainable design with ABC algorithm**
KAPLAN G., Bayraktar O. Y., Bayraktar T.
Materials Today Communications, vol.35, 2023 (SCI-Expanded)
46. **Mechanical, durability and microstructural characteristics of Portland pozzolan cement (PPC) produced with high volume pumice: Green, cleaner and sustainable cement development**
ULUSU H., Yılmaz Aruntaş H., Burcu Gültekin A., Dayı M., Çavuş M., KAPLAN G.
Construction and Building Materials, vol.378, 2023 (SCI-Expanded)
47. **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)
48. **Physico-mechanical and shielding properties of alkali-activated slag composites incorporating cement clinker aggregate: Effect of high temperature and particle size**
Bayrak B., Öz A., Benli A., Kavaz E., Kaplan G., Aydın A. C.
Journal of Building Engineering, vol.67, 2023 (SCI-Expanded)
49. **The effect of geopolymer slurries with clinker aggregates and marble waste powder on embodied energy and high-temperature resistance in prepacked concrete: ANFIS-based prediction model**
KAPLAN G., ÖZ A., Bayrak B., AYDIN A. C.
Journal of Building Engineering, vol.67, 2023 (SCI-Expanded)
50. **Effect of waste colemanite and PVA fibers on GBFS-Metakaolin based high early strength geopolymer composites (HESGC): Mechanical, microstructure and carbon footprint characteristics**
ÖZ A., Bayrak B., KAPLAN G., AYDIN A. C.
Construction and Building Materials, vol.377, 2023 (SCI-Expanded)
51. **Preparation and characterization of a novel prepacked aggregate geopolymer: A feasibility study**
KAPLAN G., Shi J., ÖZ A., Bayrak B., Dheyaaldin M. H., AYDIN A. C.
POWDER TECHNOLOGY, vol.421, 2023 (SCI-Expanded)
52. **Performance evaluation and cost analysis of prepacked geopolymers containing waste marble**

powder under different curing temperatures for sustainable built environment

Danish A., ÖZ A., Bayrak B., KAPLAN G., AYDIN A. C., Ozbakkaloglu T.
Resources, Conservation and Recycling, vol.192, 2023 (SCI-Expanded)

53. **Physico-mechanical, thermal insulation and resistance characteristics of diatomite and attapulgite based geopolymer foam concrete: Effect of different curing regimes**
KAPLAN G., Yavuz Bayraktar O., Bayrak B., ÇELEBİ O., Bodur B., ÖZ A., AYDIN A. C.
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54. **The effect of steel fiber aspect-ratio and content on the fresh, flexural, and mechanical performance of concrete made with recycled fine aggregate**
Yavuz Bayraktar O., KAPLAN G., Shi J., Benli A., Bodur B., Turkoglu M.
Construction and Building Materials, vol.368, 2023 (SCI-Expanded)
55. **Basalt fiber reinforced foam concrete with marble waste and calcium aluminate cement**
BAYRAKTAR O. Y., YARAR G., BENLİ A., KAPLAN G., GENÇEL O., SÜTÇÜ M., KOZLOWSKI M., KADELA M.
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56. **Hemp fiber reinforced one-part alkali-activated composites with expanded perlite: Mechanical properties, microstructure analysis and high-temperature resistance**
BAYRAKTAR O. Y., TOBBALA D. E., TURKOGLU M., KAPLAN G., TAYEH B. A.
CONSTRUCTION AND BUILDING MATERIALS, vol.363, 2023 (SCI-Expanded)
57. **The use of waste marble for cleaner production of structural concrete: A comprehensive experimental study**
GENÇEL O., NODEHI M., YAVUZ BAYRAKTAR O., KAPLAN G., BENLİ A., KÖKSAL F., BİLİR T., SIDDIQUE R., OZBAKKALOĞLU T.
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58. **Development, characterization, and performance analysis of shape-stabilized phase change material included-geopolymer for passive thermal management of buildings**
GENÇEL O., HARJA M., SARI A., HEKİMOĞLU G., USTAOĞLU A., SÜTÇÜ M., ERDOĞMUŞ E., KAPLAN G., BAYRAKTAR O. Y.
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59. **Characteristics, energy saving and carbon emission reduction potential of gypsum wallboard containing phase change material**
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JOURNAL OF ENERGY STORAGE, vol.55, 2022 (SCI-Expanded)
60. **Properties of eco-friendly foam concrete containing PCM impregnated rice husk ash for thermal management of buildings**
GENÇEL O., SARI A., KAPLAN G., USTAOĞLU A., HEKİMOĞLU G., BAYRAKTAR O. Y., OZBAKKALOĞLU T.
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61. **Usage of ready-mixed concrete plant wastewater in concrete with superplasticizer: Effect on physico-mechanical properties**
ARUNTAŞ H. Y., NALLI E., KAPLAN G.
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62. **The effect of limestone and bottom ash sand with recycled fine aggregate in foam concrete**
GENÇEL O., BALCI B., BAYRAKTAR O. Y., NODEHI M., SARI A., KAPLAN G., HEKİMOĞLU G., GHOLAMPOUR A., BENLİ A., OZBAKKALOĞLU T.
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63. **The radiation shielding and microstructure properties of quartzic and metakaolin based geopolymer concrete**
ÖZ A., BAYRAK B., KAVAZ E., KAPLAN G., ÇELEBİ O., ALCAN H. G., AYDIN A. C.
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64. **Mechanical durability and microstructural properties of sustainable high strength mortars ? ncorporated basalt fiber and copper slag: Taguchi optimization**
ABU AESHAH M. N. A., KAPLAN G.
CONSTRUCTION AND BUILDING MATERIALS, vol.339, 2022 (SCI-Expanded)

65. **Foam Concrete Produced with Recycled Concrete Powder and Phase Change Materials**
GENÇEL O., Nodehi M., HEKİMOĞLU G., USTAOĞLU A., SARI A., KAPLAN G., BAYRAKTAR O. Y., SÜTÇÜ M., Ozbakkaloglu T.
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66. **Optimization of foam concrete characteristics using response surface methodology and artificial neural networks**
KURŞUNCU B., GENÇEL O., BAYRAKTAR O. Y., Shi J., Nematzadeh M., KAPLAN G.
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67. **The effect of recycled fine aggregates treated as washed, less washed and unwashed on the mechanical and durability characteristics of concrete under MgSO₄ and freeze-thaw cycles**
Bayraktar O. Y., KAPLAN G., Benli A.
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68. **Basalt fiber-reinforced foam concrete containing silica fume: An experimental study**
Gencil O., Nodehi M., Bayraktar O. Y., KAPLAN G., Benli A., Gholampour A., Ozbakkaloglu T.
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69. **Effect of quartz powder on mid-strength fly ash geopolymers at short curing time and low curing temperature**
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70. **Investigation of physico-mechanical, thermal properties and solar thermoregulation performance of shape-stable attapulgite based composite phase change material in foam concrete**
Gencil O., Ustaoglu A., Benli A., HEKİMOĞLU G., SARI A., Erdogmus E., Sutcu M., KAPLAN G., Yavuz Bayraktar O.
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71. **Usage of recycled fine aggregates obtained from concretes with low w/c ratio in the production of masonry plaster and mortar**
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72. **Lightweight foam concrete containing expanded perlite and glass sand: Physico-mechanical, durability, and insulation properties**
GENÇEL O., BAYRAKTAR O. Y., KAPLAN G., Arslan O., Nodehi M., BENLİ A., Gholampour A., Ozbakkaloglu T.
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73. **High temperature resistant restoration mortar with fly ash and GGBFS**
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74. **The impact of RCA and fly ash on the mechanical and durability properties of polypropylene fibre-reinforced concrete exposed to freeze-thaw cycles and MgSO₄ with ANN modeling**
BAYRAKTAR O. Y., Eshtewi S. S. T., BENLİ A., KAPLAN G., Toklu K., Gunek F.
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75. **The effects of cement type and expanded vermiculite powder on the thermo- mechanical characteristics and durability of lightweight mortars at high temperature and RSM modelling**
KÖKSAL F., Nazli T., BENLİ A., GENÇEL O., KAPLAN G.
CASE STUDIES IN CONSTRUCTION MATERIALS, vol.15, 2021 (SCI-Expanded)
76. **The impact of natural and calcined zeolites on the mechanical and durability characteristics of glass fiber reinforced cement composites**
KAPLAN G., Coskan U., BENLİ A., BAYRAKTAR O. Y., Kucukbaltaci A. B.
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77. **Effect of high volume fly ash and micro-steel fiber on flexural toughness and durability properties in self-compacting lightweight mortar (SCLM)**
KAPLAN G., BAYRAKTAR O. Y., MEMİŞ S.
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78. **Influence of bottom ash and polypropylene fibers on the physico-mechanical, durability and thermal**

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GENÇEL O., Kazmi S. M. S., Munir M. J., KAPLAN G., BAYRAKTAR O. Y., Yazar D. O., Karimipour A., Ahmad M. R.
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79. **Microstructure and durability properties of lightweight and high-performance sustainable cement-based composites with rice husk ash**
KAPLAN G., Salem Elmekahal M. A.
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43. **Farklı Viskozite Değerlerine Sahip Püskürtme Beton Karışımlarının Geri Sıçrama Optimizasyonunun Abaqus CAE Programıyla İncelenmesi**
YILDIZEL S. A., YİĞİT M. E., ÖZTÜRK A. U., KAPLAN G.
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44. **Effect of Silica Fume and Fly Ash on the Strength Development of Boron Active Belite Cement**
GÖKÇE H. S., ŞİMŞEK O., ANDIÇ ÇAKIR Ö., KAPLAN G.
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45. **Yapı Sektöründe Uçucu Kül Kullanımının Çevresel ve Toplumsal Etkileri Açısından İncelenmesi**
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Uluslararası Sürdürülebilir Yapılar Sempozyumu, 26 May 2010

Courses

Seçmeli Tasarım II, Undergraduate, 2022 - 2023
İnşaat Mühendisliği Uygulamaları, Undergraduate, 2022 - 2023
Sürdürülebilir Çimento Üretimi, Postgraduate, 2023 - 2024
Ferrocement, Postgraduate, 2022 - 2023
Sülfatlı Ortamlara Maruz Beton, Postgraduate, 2023 - 2024
İnşaat Mühendisliği Uygulamaları, Undergraduate, 2022 - 2023
Seçmeli Tasarım I, Undergraduate, 2023 - 2024
İş Sağlığı ve Güvenliği II, Undergraduate, 2020 - 2021
İş Sağlığı ve Güvenliği II, Undergraduate, 2020 - 2021
İş Sağlığı ve Güvenliği II, Undergraduate, 2020 - 2021
Bilgisayar Programlama, Undergraduate, 2020 - 2021
Teknik Resim, Undergraduate, 2020 - 2021

Tasks In Event Organizations

Kan A., Bayrak B., Aydın A. C., KAPLAN G., Geopolymeric Composites Congress, Scientific Congress, Erzurum, Turkey, Aralık 2021
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Metrics

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Research Areas

Structure, Building materials