



Ali Jihad Hamad Mohammed AL-Khalil

علي جهاد حمد محمد الخليل

PROFILE

I am a lecturer and researcher in civil engineering specializing in construction materials. My academic and professional work focuses on the analysis, design, and performance evaluation of concrete for structural applications, with an emphasis on material efficiency and durability. I teach undergraduate courses in concrete technology, construction materials, engineering estimation, structural engineering, engineering drawing, and mathematics .

My research interests include sustainable construction materials, recycled and waste-based concrete, fiber-reinforced concrete, and the mechanical and durability behavior of cement-based composites. I am actively involved in experimental research related to material characterization, mix design optimization, and the assessment of concrete performance under various loading and environmental conditions.

PUBLICATIONS (24)

- Synergetic effect of recycled E-waste fibers and ceramic waste fine aggregates on the strength of Sustainable high-strength concrete**
Journal of Sustainable Cement-Based Materials, 1-21, 2026 | 2026
- Sustainable high-strength cement mortar: synergistic of fiber reinforcement and partial aggregate replacement**
Innovative Infrastructure Solutions 10 (7), 302, 2025 | 2025 | Cited: 1
- Green Fibers-Reinforced Cement Mortar with the Inclusion of Nano-CaCO3 and Metakaolin**
Engineering Transactions, 2024 | 2024 | Cited: 7
- The effect of multi-walled carbon nanotubes on mechanical properties and water adsorption of lightweight foamed concrete**
Res. Eng. Struct. Mater 10 (3), 1139-1154, 2024 | 2024 | Cited: 6
- Assessing the effects of copolymer modifier addition on asphalt attributes: Towards achieving performance optimization**
Construction and Building Materials 420, 135645, 2024 | 2024 | Cited: 13
- Synergistic effect of the silica fume and glass powder as pozzolanic materials in cement mortar**
International Journal of Sustainable Building Technology and Urban ...,, 2024 | 2024 | Cited: 10
- Mechanical properties of lightweight green concrete including nano calcium carbonate**
Journal of Building Pathology and Rehabilitation 8 (1), 3, 2023 | 2023 | Cited: 23
- Cement mortar reinforced by date palm fibers and inclusion metakaolin**
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- Thermal Treatment Influence of Metakaolin on the Concrete Properties**
Journal of Pharmaceutical Negative Results, 1847-1855, 2022 | 2022 | Cited: 5
- Safe Hubs during Earthquakes & Emergency Events**
International Journal of the Built Environment and Asset Management 2 (2 ...,, 2021 | 2021
- Effect of ceramic waste powder as partial fine aggregate replacement on properties of fiber-reinforced aerated concrete**
Engineering Reports, 1-16, 2020 | 2020 | Cited: 22
- Flexural and Flexural Toughness of Fiber Reinforced Concrete- American Standard Specifications Review**
Global Research and Development Journal for Engineering 4 (5), 5-13, 2019 | 2019 | Cited: 53
- Influence of Different Curing Ways on the Properties of Concrete**
Glob. Res. Dev. J. Eng 4, 2455-5703, 2019 | 2019 | Cited: 3

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RESEARCH METRICS

h-index (Scopus)	7
h-index (GS)	11
Citations (Scopus)	234
Citations (GS)	831
Documents (Scopus)	12
Documents (GS)	24



14. **Size and shape effect of specimen on the compressive strength of HPLWFC reinforced with glass fibres**
Journal of King Saud University-Engineering Sciences 29 (4), 373-380, 2017 | 2017 | Cited: 167
15. **Effect of NaCl on the Mechanical Properties of Structural Lightweight Concrete Reinforced with Fibers**
Walailak Journal of Science and Technology (WJST) 14 (5), 389-399, 2017 | 2017 | Cited: 1
16. **Proportioning of Lightweight Concrete by the Inclusions of Expanded Polystyrene Beads (EPS) and Foam Agent**
Tikrit Journal of Engineering Sciences 23 (2), 65-73, 2016 | 2016 | Cited: 11
17. **Toughness behaviour of high-performance lightweight foamed concrete reinforced with hybrid fibres**
Structural concrete 16 (4), 496-507, 2015 | 2015 | Cited: 67
18. **Lightweight concrete reinforced with polypropylene fibers**
International Journal of Advances in Applied Sciences 4 (2), 45-49, 2015 | 2015 | Cited: 11
19. **Materials, production, properties and application of aerated lightweight concrete**
International journal of materials science and engineering 2 (2), 152-157, 2014 | 2014 | Cited: 306
20. **A classification of lightweight concrete: materials, properties and application review**
International Journal of Advanced Engineering Applications 7 (1), 52-57, 2014 | 2014 | Cited: 27
21. **Materials, properties and application review of Lightweight concrete**
Technical Review of the Faculty of Engineering University of Zulia 37 (2), 10-15, 2014 | 2014 | Cited: 68
22. **High performance lightweight concrete reinforced with glass fibers**
AL-Mansour Journal 20 (1), 73-87, 2013 | 2013 | Cited: 16
23. **Effect of glass fibers on mechanical properties of structural lightweight foamed concrete (SLFC)**
University of Thi-Qar Journal for Engineering Sciences 4 (3), 108-126, 2013 | 2013 | Cited: 2
24. **Effect of Glass Fibers on Tensile Strength of High Performance Lightweight Foamed Concrete (HPLWFC)**

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