



Adil Mahdi Jabbar

عادل مهدي جبار حمود الغرباوي

Associate Professor

PROFILE

Assistant Prof. Dr. - PhD in structural engineering- University of Technology - Iraq - Civil Engineering Department

Research interests: Ultra-high-performance concrete - Supplementary Cementitious additives for concrete - Shear in reinforced concrete beams - Finite element analysis - Abaqus analysis - Reinforced concrete columns

ACADEMIC TITLES

2025-12-01 Associate Professor

TEACHING EXPERIENCE

Assistant Professor

College of Engineering

2025-12 - Present

COURSES

- Theory of Structures- Steel Design - Analysis & Design of RC Structures - Engineering Mechanics - Building Construction - Structural Systems for Buildings
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- Statistics and data processing

GRADUATE SUPERVISION

Structural Behaviour of Hollow One-way Slabs Made of Recycled Aggregate Concrete Enhanced with Cementitious Materials

Zehraa Ghani Jebur (2026)

ADMINISTRATIVE POSITIONS

2023-01-10 - Present Responsible of Scientific Affairs Division

PUBLICATIONS (2 6)

1. Structural Behaviour of Hollow One-way Slabs of Recycled Concrete Aggregate with Rectangular Longitudinal Cavities for Sustainability: An Experimental and Numerical Study
2026
2. Sustainable urban heritage strategies for Iraq's holy cities: A case study of the Old City of Najaf
Sustainable Engineering and Innovation | 2026

CONTACT

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EDUCATION

دكتوراه (01-12-2022)
Structural Engineering
University

RESEARCH METRICS

h-index (Scopus)	6
h-index (GS)	7
Citations (Scopus)	152
Citations (GS)	216
Documents (Scopus)	17
Documents (GS)	25

RESEARCH INTERESTS

- Ultra-high-performance concrete- Finite element analysis -Analysis via Abaqus - Shear in RC beams



3. **The impact of incorporating chopped basalt fibers into the mixture on some mechanical properties of concrete**
Innovative Infrastructure Solutions 10 (12), 533, 2025 | 2025
4. **Sustainability Investigation of the Old Mustansiriya Madrasa in Modern Construction: A Comparative Study**
Journal of Islamic Architecture 8 (3), 726-736, 2025 | 2025 | Cited: 2
5. **Urban Resilience Strategies: Creating Adaptable and Sustainable Public Spaces Along Riverbanks in Mid-Sized Cities – A Case Study of Kut City**
International Journal of Sustainable Development and Planning | 2025
6. **Preserving heritage for Iraqi cities: Urban modernization approaches according to expert opinions**
Heritage and Sustainable Development 7 (2), 1199-1212, 2025 | 2025
7. **Using digital software to design interactive smart canopies for the outdoor environment**
Architecture and Engineering 10 (2), 19-32, 2025 | 2025 | Cited: 2
8. **Impact of Merging Basalt Fibers with Various Types of Concrete and the Factors Affecting Them: A Review**
Al-Esraa University Colleges Journal for Engineering Science 5 (7), 15-40, 2024 | 2024
9. **A numerical investigation of the structural behavior of reinforced concrete beams fully or partially encased with UHPC layers in flexure**
Structures 70, 107706, 2024 | 2024 | Cited: 18
10. **Numerical Analysis of Sectional Shape Effect on Behavior of Short Concrete Columns**
Wasit Journal of Engineering Sciences 12 (1), 30-37, 2024 | 2024 | Cited: 1
11. **Impact of Failure-surface Parameters of Concrete Damage Plasticity Model on the Behavior of Reinforced Ultra-high Performance Concrete Beams**
Periodica Polytechnica Civil Engineering | 2023 | Cited: 32
12. **Effect of Fire Flame on Some Mechanical Properties of Self-Compacting Concrete**
Al-Esra University College Journal of Science and Engineering 5 (7), 99-119, 2023 | 2023 | Cited: 1
13. **Experimental and Numerical Investigation of the Impact of Basalt Fibers and Tie Spacing on Short Concrete Column Behavior**
International Journal of Engineering: Transaction A 36 (7), 1287-1299, 2023 | 2023 | Cited: 5
14. **Using fibers instead of stirrups for shear in ultra-high performance concrete T-beams**
Australian Journal of Structural Engineering 24 (1), 36-49, 2023 | 2023 | Cited: 15
15. **Using Cementitious Materials to Enhance Concrete Properties and Improve the Environment: A Review**
Wasit Journal of Engineering Sciences | 2023 | Cited: 9
16. **Numerical simulation of ultra-high-performance concrete's compressive and tensile behaviour in beams**
Journal of Applied Engineering Science 21 (2), 532-546, 2023 | 2023 | Cited: 5
17. **A Numerical Study to Investigate Shear Behavior of High-strength Concrete Beams Externally Retrofitted with Carbon Fiber Reinforced Polymer Sheets**
International Journal of Engineering 36 (11), 2112-2123, 2023 | 2023 | Cited: 5
18. **Experimental and Numerical Behavior of Basalt Fiber Reinforced Short Concrete Columns Under Axial Loading**
Periodica Polytechnica Civil Engineering | 2023 | Cited: 3
19. **Structural behavior of ultra-high-performance concrete beams under flexural and shear action: a review**
Engineering and Technology Journal 40 (5), 743-758, 2022 | 2022 | Cited: 3
20. **A Theoretical Study to Predict the Flexural Strength of Singly and Doubly Reinforced Ultra-High Performance Concrete Beams**
Journal of Engineering Science and Technology Review | 2022 | Cited: 5
21. **Ultra high performance concrete preparation technologies and factors affecting the mechanical properties: a review**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012029, 2021 | 2021 | Cited: 21

22. **Mitigation of the Factors Affecting the Autogenous Shrinkage of Ultra-High Performance Concrete**
Engineering and Technology Journal | 2021 | Cited: 7
23. **Impact of dilation angle and viscosity on the ultra-high performance concrete behavior in Abaqus**
2021 International Conference on Advance of Sustainable Engineering and its ...;, 2021 | 2021 | Cited: 18
24. **The effect of using basalt fibers compared to steel fibers on the shear behavior of ultra-high performance concrete T-beam**
Case Studies in Construction Materials 15, 1-24, 2021 | 2021 | Cited: 64
25. **Structural systems for traditional and tall buildings**
University house for printing and publishing, University of Bagdad, Iraq, Baghdad, | 2017
26. **Estimation of fresh concrete temperature**
Wasit Journal of Engineering Sciences 5 (2), 55-63, 2017 | 2017