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EDUCATION

(07-01-2003) بكلوريوس
structure
University of Technology

(16-07-2006) ماجستير
structural engineering
university of technology

(01-07-2013) دكتوراه
Structural Engineering
University of Baghdad

RESEARCH METRICS

h-index (Scopus)	13
h-index (GS)	18
Citations (Scopus)	561
Citations (GS)	972
Documents (Scopus)	44
Documents (GS)	66

RESEARCH INTERESTS

- concrete structures
- steel structures
- bridges

Thaar S. Al-Gasham

ثائرسعود سلمان مذبوب الغشامي

Professor

PROFILE

Prof. Dr. Thaar Saud Al-Ghasham is the Dean of the College of Engineering at the University of Wasit. He is an academic and structural engineer specializing in bridge design. He earned his master's and doctoral degrees and ranked among the top students throughout his academic studies. His research has been published in reputable journals indexed by Scopus and Clarivate. His professional interests include advancing engineering education, developing academic programs, promoting scientific research, and contributing to engineering projects through design and supervision.

ACADEMIC TITLES

2021-07-21 — Professor

TEACHING EXPERIENCE

lecturer
Wasit university
2006-11 - Present

COURSES

- building materials
- strength of materials
- theory of structures
- concrete design
- steel structures
- cad
- FEM
- dynamic

ADMINISTRATIVE POSITIONS

2020-06-01 - 2025-02-09 — head of civil engineering department

2026-02-05 - Present — dean of civil engineering

INTERNATIONAL MEMBERSHIPS

- aci Iraqi chapter

PUBLICATIONS (70)

1. **An Experimental Investigation to Enhance the Strength of Recycled Aggregate Concrete Using Silica Fume**
Wasit Journal of Engineering Sciences 14 (3), 67-81, 2026 | 2026

2. **Steel Sheets' Effects on The Structural Behavior of Interior Voided Slab-Column Connections Subjected to Unbalanced Moment: An Experimental Study**
Wasit Journal of Engineering Sciences 14 (2), 29-39, 2026 | 2026

3. **A Review of Hydraulic Erosion Mechanisms and Protection Techniques for Concrete in Hydraulic Structures**
EPJ Web of Conferences 376, 05006, 2026 | 2026

4. **Comparing the abrasion resistance of conventional and rubberized concrete samples using the water jet method**
AIP Conference Proceedings 3397 (1), 070004, 2026 | 2026

5. **Structural Behaviour of Hollow One-way Slabs of Recycled Concrete Aggregate with Rectangular Longitudinal Cavities for Sustainability: An Experimental and Numerical Study**
2026

6. **Experimental study on the effects of fire on the axial strength of hollow RC columns**
Tikrit Journal of Engineering Sciences 32 (4), 1-11, 2025 | 2025 | Cited: 1

7. **Effect of Different Types of Water on Workability and Compressive Strength of Concrete.**
Mathematical Modelling of Engineering Problems 12 (3), 909, 2025 | 2025 | Cited: 4

8. **Numerical analysis of the abrasion wear in hydraulic constructions using ANSYS software**
AIP Conference Proceedings 3169 (1), 040106, 2025 | 2025

9. **Geopolymer concrete: A sustainable solution for improving abrasion resistance in hydraulic structures**
AIP Conference Proceedings 3169 (1), 040120, 2025 | 2025

10. **Influence of Steel Plate on Enhancing the Punching Strength of Voided Slabs**
The Eurasia Proceedings of Science, Technology, Engineering and Mathematics ..., 2025 | 2025

11. **Mathematical Modelling of Engineering Problems**
Journal homepage: http://iieta. org/journals/mmep 11 (9), 2293-2302, 2024 | 2024 | Cited: 2

12. **Numerical Modeling of Cavitation-Induced Abrasion in Ogee Spillways.**
Mathematical Modelling of Engineering Problems 11 (11), 2892, 2024 | 2024 | Cited: 1

13. **Review of erosion causes and important factors on the abrasion resistance of concrete**
Wasit Journal of Engineering Sciences 12 (4), 113-121, 2024 | 2024 | Cited: 2

14. **Flexural behavior of cold-formed U-shaped steel members encasing concrete composite beam using continues stud bolts**
Structural Concrete | 2024 | Cited: 5

15. **Comparing the abrasion resistance of conventional concrete and green concrete samples**
Wasit Journal of Engineering Sciences 11 (3), 83-95, 2023 | 2023 | Cited: 3

16. **Evaluation of lightweight concrete core test including steel bars**
International Journal of Engineering 36 (6), 1121-1128, 2023 | 2023 | Cited: 5

17. **Openings effects on the structural behavior of interior voided slab-column connections: An experimental study**
Case Studies in Construction Materials 18, e01998, 2023 | 2023 | Cited: 7

18. **Underwater surface abrasion of conventional and geopolymer concrete using the ASTM C1138 approach**
Journal of Materials Research and Technology 25, 2556-2569, 2023 | 2023 | Cited: 22

19. **Experimental and statistical analysis of repeated impact records of hybrid fiber-reinforced high-performance concrete**
Buildings 13 (3), 678, 2023 | 2023 | Cited: 14

20. **Review the causes of erosion in hydraulic**
2023 6th International Conference on Engineering Technology and its ..., 2023 | 2023 | Cited: 1

21. **Impact the shear connector properties on the behavior of steel- concrete-steel sandwich beams**
Materials Today: Proceedings | 2022 | Cited: 4

22. **Repeated drop-weight impact testing of fibrous concrete: State-of-the-art literature review, analysis of results variation and test improvement suggestions**
Materials 15 (11), 3948, 2022 | 2022 | Cited: 34

23. **Behavior of precast hollow slabs with different ratios of shear span to effective depth**
Materials Today: Proceedings 56, 2348-2352, 2022 | 2022 | Cited: 6

24. **The behavior of steel-concrete-steel sandwich beams with different depths effect**
Materials Today: Proceedings 56, 2145-2150, 2022 | 2022 | Cited: 4

25. **Comparing the abrasion resistance of conventional concrete and geopolymer samples**
Materials Today: Proceedings 56, 1832-1839, 2022 | 2022 | Cited: 44

26. **Evaluation of steel fiber reinforced geopolymer concrete made of recycled materials**
International Journal of Engineering 35 (10), 2018-2026, 2022 | 2022 | Cited: 13

27. **Experimental study on the depth of abrasion in hydraulic structures using samples of geopolymer concrete**
Materials Today: Proceedings 56, 1964-1971, 2022 | 2022 | Cited: 12

28. **Modeling and simulation of the erosion rate in hydraulic structures**
Wasit Journal of Engineering Sciences 10 (1), 46-55, 2022 | 2022 | Cited: 5

29. **Retrofitting of reinforced concrete flat slabs with cut-out edge opening**
Case Studies in Construction Materials 14, e00537, 2021 | 2021 | Cited: 20

30. **Impact performance of steel fiber-reinforced self-compacting concrete against repeated drop weight impact**
Crystals 11 (2), 91, 2021 | 2021 | Cited: 89

31. **Conventional and bubbled slab strips under limited repeated loads: A comparative experimental study**
Case Studies in Construction Materials 14, e00501, 2021 | 2021 | Cited: 32

32. **Statistical evaluation of vertical and lateral temperature gradients in concrete box-girders**
Journal of Physics: Conference Series 1895 (1), 012068, 2021 | 2021 | Cited: 4

33. **Review of abrasion mechanisms and influential variables on the disintegration resistance of concrete**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012056, 2021 | 2021 | Cited: 7

34. **Concrete erosion modelling by water jet using discrete phase method**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012032, 2021 | 2021 | Cited: 7

35. **Fresh and hardened properties of self-compacting mortar containing limestone as fine aggregates**
Materials Today: Proceedings 42, 2573-2577, 2021 | 2021 | Cited: 6

36. **Experimental study on erosion depth in hydraulic structures**
Materials Today: Proceedings 42, 2340-2345, 2021 | 2021 | Cited: 15

37. **Bubble slabs burned at 800° C with different periods**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012058, 2021 | 2021 | Cited: 4

38. **Geometrical parametric study on steel beams exposed to solar radiation**
Applied Sciences 11 (19), 9198, 2021 | 2021 | Cited: 18

39. **Quasi-static analysis of biaxial voided slabs with openings**
Structures 33, 4176-4192, 2021 | 2021 | Cited: 19

40. **Decays in strength, ductility, stiffness, and toughness of RC corbels due to fire exposure**
IOP conference series: materials science and engineering 1058 (1), 012040, 2021 | 2021 | Cited: 2

41. **Impact resistance of steel fiber-reinforced self-compacting concrete**
Magazine of Civil Engineering 105 (5), 10504-10504, 2021 | 2021 | Cited: 23

42. **A simple suggested approach to reduce the testing time of concrete surface abrasion using ASTM C1138**
Case Studies in Construction Materials 15, e00685, 2021 | 2021 | Cited: 25

43. **The evaluation of the abrasion damage in hydraulic structures using the modified test method**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012059, 2021 | 2021 | Cited: 7

44. **Damage assessment of RC voided slabs experienced extreme fire flame**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012051, 2021 | 2021 | Cited: 5

45. **Tests on reinforced concrete deep beams with different web reinforcement types**
IOP Conference Series: Materials Science and Engineering 988 (1), 012032, 2020 | 2020 | Cited: 9

46. **Low-velocity impact tests on self-compacting concrete prisms**
IOP Conference Series: Materials Science and Engineering 888 (1), 012051, 2020 | 2020 | Cited: 14

47. **BOD and COD reduction using porous concrete pavements**
Case Studies in Construction Materials 13, e00396, 2020 | 2020 | Cited: 59

48. **Evaluating planner hoop steel plates as web reinforcement for deep reinforced concrete beams**
IOP Conference Series: Materials Science and Engineering 988 (1), 012031, 2020 | 2020 | Cited: 7

49. **Finite element simulation of vertical temperature gradients in a standard W40×235 steel beam**
IOP Conference Series: Materials Science and Engineering | 2020 | Cited: 10

50. **Flexural behavior of laced reinforced concrete moderately deep beams**
Case Studies in Construction Materials 13, e00363, 2020 | 2020 | Cited: 37

51. **Mechanical characteristics of deep beams considering variable a/d ratios: an experimental investigation**
IOP Conference Series: Materials Science and Engineering 988 (1), 012030, 2020 | 2020 | Cited: 13

52. **Case Studies in Construction Materials**
2019

53. **The geometric shape effect of steel slit dampers in their behavior**
Magazine of Civil Engineering, 3-17, 2019 | 2019 | Cited: 15

54. **Structural behavior of reinforced concrete one-way slabs voided by polystyrene balls**
Case Studies in Construction Materials 11, e00292, 2019 | 2019 | Cited: 72

55. **Improving punching behavior of interior voided slab-column connections using steel sheets**
Engineering Structures 199, 109614, 2019 | 2019 | Cited: 54

56. **Influence of post-heating on the behavior of reinforced self-compacting concrete hollow columns**
Structures 22, 266-277, 2019 | 2019 | Cited: 30

57. **Numerical and experimental study of abrasion erosion in hydraulic structures of high-velocity water flow**
2019 12th International Conference on Developments in eSystems Engineering ..., 2019 | 2019 | Cited: 20

58. **Structural performance of reinforced concrete corbels exposed to high fire flame**
UEMK 2018 BİLDİRİ ÖZETLERİ KİTABI 18-19 Ekim 2018 Hukuk Fakültesi 544, 2018 | 2018 | Cited: 4

59. **NUMERICAL MODEL OF THE PRESSURE DISTRBUTION IN REINFORCED CONCRETE ELEVATED (RCE) FLUMES**
UEMK 2018 BİLDİRİ ÖZETLERİ KİTABI 18-19 Ekim 2018 Hukuk Fakültesi, 429, 2018 | 2018

60. **New technique to enhance the shear performance of RC deep beams using mild steel plates**
International Journal of Engineering & Technology 7 (4.20), 86-94, 2018 | 2018 | Cited: 14

61. **Effect of construction joints on the behavior of reinforced concrete beams**
Journal of Engineering 23 (5), 47-60, 2017 | 2017 | Cited: 18

62. **Experimental behavior of steel-concrete-steel sandwich beams with truss configuration of shear connectors**
Journal of Engineering 22 (4), 18-29, 2016 | 2016 | Cited: 9

63. **EXPERIMENTAL PERFORMANCE OF REINFORCED CONCRETE HOLLOW COLUMNS EXPOSED TO FIRE**
Al-Qadisiyah Journal For Engineering Sciences 9 (2), 211-224, 2016 | 2016 | Cited: 5

64. **SHEAR STRENGTHENING WITH CFRP SHEETS APPLIED IN REINFORCED CONCRETE FLAT PLATES WITH OPENINGS**
First International Conference on Science, Engineering & Environment,Tsu ..., 2015 | 2015 | Cited: 17

65. **Reinforced Concrete Moderate Deep Beams with Embedded PVC Pipes**
Wasit Journal of Engineering Sciences 3 (1), 19-29, 2015 | 2015 | Cited: 30

66. **Structural performance of reinforced concrete bubble slabs after exposing to fire flame**
Journal of Engineering and Sustainable Development 19 (4), 1-14, 2015 | 2015 | Cited: 20

67. **Punching shear strength of reinforced concrete flat plates with openings**
Journal of Engineering 20 (01), 1-20, 2014 | 2014 | Cited: 51

68. **Alternative Cracking Shear Strength Equation for Reinforced Concrete Normal Beams without stirrups'**
Iraqi Journal of Civil Engineering 8 (1), 44-49, 2011 | 2011 | Cited: 5

69. **ULTIMATE STRENGTH OF CLAMPED R.C SQUARE SLABS WITH CENTRAL SQUARE OPENING UNDER COMBIEND BENDING AND MEMBRANE ACTION**
Journal Of Wassit For Science & Medicine 2 (1), 186-201, 2009 | 2009 | Cited: 1

70. **Treatment of Shear of Reinforced Concrete Slender Beams with Web Reinforcement in well-known Structural International Codes**
Al-Qadisiyah Journal for Engineering Sciences 2 (2), 215-228, 2009 | 2009 | Cited: 2