

Asad Hafudh Humaish Aldefae

أسعد حافظ حميش عباس الدفاعي

Professor

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EDUCATION

(10-12-2013) دكتوراه

Soil and Foundation

Dundee

RESEARCH METRICS

h-index (Scopus)	8
h-index (GS)	11
Citations (Scopus)	423
Citations (GS)	664
Documents (Scopus)	29
Documents (GS)	52

PROFILE

Asad Aldefae hasa PhD in civil engineering/geotechnical engineering from the University of Dundee/ Scotland/Uk at the end of 2013.He is interested in earthquake engineering, environmental engineering, river banks stability, physical and numerical modeling, geotechnical centrifuge, and seismic performance of soil-structure interaction and slope stability analysis. More than 44 paper were published in high ranking journal by Dr. Aldefae like Géotechnique, Soil Dynamic and Earthquake Engineering, Geotechnical and Geo-environment Engineering, ASCE as well as many international conferences like a series of international conferences of physical modeling in geotechnic(ICPMG) in both Perth, Australia(2014)and London, UK(2018) and Greece.

ACADEMIC TITLES

2022-02-03	Professor

COURSES

- Computer sciences
- Soil Mechanic
- Soil Mechanic
- sediments transport
- Research Methods

ADMINISTRATIVE POSITIONS

2009-06-15 - 2010-10-05	Deputy Dean for Scientific Affairs
2015-02-01 - 2016-10-02	Head of Civil Engineering Deartment
2018-04-01 - 2021-11-11	Deputy Dean for Administrative Affairs

PUBLICATIONS (53)

1. **Seismic Performance Evaluation of Mid-Rise RC Buildings Considering Soil–Structure Interaction and Foundation Effects**
   Wasit Journal of Engineering Sciences 14 (3), 120-137, 2026 | 2026
2. **Lateral response of axially loaded Franki pile embedded in cohesionless soil**
   AIP Conference Proceedings 3379 (1), 050045, 2026 | 2026
3. **Design and manufacturing of rainfall simulator machine for the soil erosion investigation**
   Geotechnical Engineering and Sustainable Construction: Sustainable ..., 2022 | 2022 | Cited: 4
4. **Tsunami waves, causes and its implications: a review**
   Geotechnical Engineering and Sustainable Construction: Sustainable ..., 2022 | 2022 | Cited: 6
5. **Effect of Wing Ratio of Single Helix Screw Pile on Ultimate Compression Capacity Embedded in Cohesionless Soil**
   Geotechnical Engineering and Sustainable Construction: Sustainable ..., 2022 | 2022

6. **Manufacturing of Small-Scale Flume to Assess the Riverbank's Settlement**
Geotechnical Engineering and Sustainable Construction: Sustainable ..., 2022 | 2022

7. **Design and Manufacturing of Rainfall**
Geotechnical Engineering and Sustainable Construction: Sustainable ..., 2022 | 2022

8. **Verification of strength resistance of sandy soil using small scale penetrometer tests**
Przegląd Naukowy. Inżynieria i Kształtowanie Środowiska 30 (2 [92]), 2021 | 2021

9. **Experimental and numerical modeling to investigate the riverbank's stability**
SN Applied Sciences 3 (2), 164, 2021 | 2021 | Cited: 21

10. **Soil erosion and the influenced factors: A review article**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012041, 2021 | 2021 | Cited: 18

11. **Seismic performance of gravity quay wall**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012033, 2021 | 2021 | Cited: 10

12. **Static and seismic performance of buried pipelines: a review**
E3S Web of Conferences 318, 01011, 2021 | 2021 | Cited: 7

13. **Numerical modelling of underground water pipelines exposed to seismic loading**
Wasit Journal of Engineering Sciences 9 (2), 34-44, 2021 | 2021 | Cited: 4

14. **Dynamic response of different bridge piers**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012045, 2021 | 2021 | Cited: 3

15. **Development of equations relates the factors affecting riverbank stability using dimensional analysis**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012025, 2021 | 2021 | Cited: 3

16. **Seismic Performance of Underground Water Pipelines**
2021 International Conference on Advance of Sustainable Engineering and its ..., 2021 | 2021 | Cited: 2

17. **Quick review of seismic behavior of gravity quay wall**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012046, 2021 | 2021 | Cited: 2

18. **Seismic Performance of Cohesionless Soil Underneath Gravity Dam**
Soil Dynamics: Select Proceedings of 7th ICRAGEE 2020, 159-170, 2021 | 2021 | Cited: 1

19. **Study of the tsunami wave run-up using dimensional analysis**
Wasit Journal of Engineering Sciences 9 (2), 1-8, 2021 | 2021

20. **Effect of Rainfall Intensity on Channel Sediment**
2021 International Conference on Advance of Sustainable Engineering and its ..., 2021 | 2021

21. **Underneath Gravity Dam**
Soil Dynamics: Select Proceedings of 7th ICRAGEE 2020, 159, 2021 | 2021

22. **Fires Accidents and its Implication on Mechanical and Structural Properties of Different Construction Materials**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012026, 2021 | 2021

23. **Design and Manufacturing of Small Scale Tsunami Simulator Channel**
E3S Web of Conferences 318, 01019, 2021 | 2021

24. **Numerical modeling of seismic performance of gravity quay wall**
IOP Conference Series: Materials Science and Engineering | 2021 | Cited: 3

25. **Effect of Saturation on Thermal Conductivity of Granular Materials**
Key Engineering Materials 857, 32-38, 2020 | 2020 | Cited: 1

26. **Seismic performance of bridge piers**
IOP Conference Series: Materials Science and Engineering 870 (1), 012069, 2020 | 2020 | Cited: 11

27. **Fire resistance of selected construction materials**
AIP Conference Proceedings 2213, 020008-1 -020008-9, 2020 | 2020 | Cited: 10

28. **Design, manufacturing and testing of biaxial mechanical travelling pluviator**
IOP Conference Series: Materials Science and Engineering 870 (1), 012071, 2020 | 2020 | Cited: 9

29. **Digital maps of mechanical geotechnical parameters using GIS**
Cogent Engineering 7 (1), 1779563, 2020 | 2020 | Cited: 29

30. **Erosion, sediments transport and riverbank stability: A review**
IOP Conference Series: Materials Science and Engineering 901 (1), 012014, 2020 | 2020 | Cited: 12

31. **Design and manufacturing of geotechnical laboratory tools used in physical modeling**
Cogent Engineering 6 (1), 1637622, 2019 | 2019 | Cited: 15

32. **Design and manufacturing of flume apparatus to investigate the failure mechanism of riverbanks**
Cogent Engineering 6 (1), 1655234, 2019 | 2019 | Cited: 11

33. **Froude number data analysis and its implications on local scour**
2019 12th International Conference on Developments in eSystems Engineering ..., 2019 | 2019 | Cited: 10

34. **Design and manufacturing loading rig machine for testing screw pile models**
International Journal of Engineering & Technology 7 (4.20), 420-425, 2018 | 2018 | Cited: 3

35. **Variability of small scale model reinforced concrete and implications for geotechnical centrifuge testing**
Physical Modelling in Geotechnics, Volume 1, 241-246, 2018 | 2018 | Cited: 11

36. **Design, manufacturing and testing of small shaking table**
International Journal of Engineering and Technology 7 (4(20)), 426-430, 2018 | 2018 | Cited: 6

37. **Seismic performance of concrete dam-reservoir system**
Int J Eng Technol 4 (20), 4873-4879, 2018 | 2018 | Cited: 4

38. **Effects of vertical loading on lateral screw pile performance**
Proceedings of the Institution of Civil Engineers-Geotechnical Engineering ..., 2017 | 2017 | Cited: 105

39. **Prediction of One-Dimensional Compression Test using Finite Elements Model**
International Journal of Engineering Research 5 (05), 2016 | 2016 | Cited: 1

40. **Small-scale modelling of reinforced concrete for physical model tests, and its application in centrifuge testing of a soil-structure interaction problem**
Proceedings of the 1st International Conference on Natural Hazards ..., 2016 | 2016 | Cited: 2

41. **An improved Newmark method for predicting the whole-life performance of pile-reinforced slopes**
6ICEGE-Proceedings of the 6th International Conference in Earthquake ..., 2015 | 2015

42. **Newmark sliding block model for pile-reinforced slopes under earthquake loading**
Soil Dynamics and Earthquake Engineering 75, 265-278, 2015 | 2015 | Cited: 40

43. **Stiffness matching of model reinforced concrete for centrifuge modelling of soil-structure interaction**
8th International Conference on Physical Modelling in Geotechnics, ICPMG ..., 2014 | 2014 | Cited: 13

44. **Centrifuge modeling of the seismic performance of pile-reinforced slopes**
Journal of Geotechnical and Geoenvironmental Engineering 140 (6), 04014014, 2014 | 2014 | Cited: 100

45. **Seismic performance of pile-reinforced slopes**
University of Dundee, 2013 | 2013 | Cited: 20

46. **Aftershocks and the whole-life seismic performance of granular slopes**
Géotechnique 63 (14), 1230-1244, 2013 | 2013 | Cited: 179

47. **International Journal of Physical Modelling in Geotechnics: Referees 2021**
0

48. **International Journal of Physical Modelling in Geotechnics: Referees 2020**
0

49. **International Journal of Physical Modelling in Geotechnics: Referees 2017**
International Journal 18 (1), 0 | 0

50. **International Journal of Physical Modelling in Geotechnics**
International Journal 15 (1), 0 | 0

51. **International Journal of Physical Modelling in Geotechnics: Referees 2019**
0

52. **International Journal of Physical Modelling in Geotechnics: Referees 2018**
0

53. **International Journal of Physical Modelling in Geotechnics: Referees 2016**
International Journal 17 (1), 0 | 0