



CONTACT

Phone: 07711015359

Email: asadaldefae@uowasit.edu.iq

asadaldefae@uowasit.edu.iq

EDUCATION

دكتوراه (12-10-2003)

Soil and Foundation

Dundee

RESEARCH METRICS

h-index (Scopus)	8
h-index (GS)	11
Citations (Scopus)	403
Citations (GS)	648
Documents (Scopus)	29
Documents (GS)	51



Asad Hafudh Humaish Aldefae

أسعد حافظ حميش عباس الدفاعي

Professor

PROFILE

Asad Aldefae has a 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 papers were published in high ranking journals by Dr. Aldefae like Géotechnique, Soil Dynamics 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 geotechnics (ICPMG) in both Perth, Australia (2014) and London, UK (2018) and Greece.

ACADEMIC TITLES

2022-03-02 Professor

ADMINISTRATIVE POSITIONS

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

PUBLICATIONS (52)

- Lateral response of axially loaded Franki pile embedded in cohesionless soil**
AIP Conference Proceedings 3379 (1), 050045, 2026 | 2026
- Design and Manufacturing of Rainfall**
Geotechnical Engineering and Sustainable Construction: Sustainable ..., 2022 | 2022
- Design and manufacturing of rainfall simulator machine for the soil erosion investigation**
Geotechnical Engineering and Sustainable Construction: Sustainable ..., 2022 | 2022 | Cited: 4
- Tsunami waves, causes and its implications: a review**
Geotechnical Engineering and Sustainable Construction: Sustainable ..., 2022 | 2022 | Cited: 5
- Manufacturing of Small-Scale Flume to Assess the Riverbank's Settlement**
Geotechnical Engineering and Sustainable Construction: Sustainable ..., 2022 | 2022
- 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
- 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
- Underneath Gravity Dam**
Soil Dynamics: Select Proceedings of 7th ICRAAGEE 2020, 159, 2021 | 2021
- Soil erosion and the influenced factors: A review article**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012041, 2021 | 2021 | Cited: 18
- Effect of Rainfall Intensity on Channel Sediment**
2021 International Conference on Advance of Sustainable Engineering and its ..., 2021 | 2021

11. **Study of the tsunami wave run-up using dimensional analysis**
Wasit Journal of Engineering Sciences 9 (2), 1-8, 2021 | 2021
12. **Dynamic response of different bridge piers**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012045, 2021 | 2021 | Cited: 3
13. **Design and Manufacturing of Small Scale Tsunami Simulator Channel**
E3S Web of Conferences 318, 01019, 2021 | 2021
14. **Verification of strength resistance of sandy soil using small scale penetrometer tests**
Przegląd Naukowy. Inżynieria i Kształtowanie Środowiska 30 (2 [92]), 2021 | 2021
15. **Numerical modeling of seismic performance of gravity quay wall**
IOP Conference Series: Materials Science and Engineering | 2021
16. **Static and seismic performance of buried pipelines: a review**
E3S Web of Conferences 318, 01011, 2021 | 2021 | Cited: 7
17. **Numerical modelling of underground water pipelines exposed to seismic loading**
Wasit Journal of Engineering Sciences 9 (2), 34-44, 2021 | 2021 | Cited: 4
18. **Seismic performance of gravity quay wall**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012033, 2021 | 2021 | Cited: 10
19. **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
20. **Seismic Performance of Cohesionless Soil Underneath Gravity Dam**
Soil Dynamics: Select Proceedings of 7th ICRAAGEE 2020, 159-170, 2021 | 2021 | Cited: 1
21. **Seismic Performance of Underground Water Pipelines**
2021 International Conference on Advance of Sustainable Engineering and its ...;, 2021 | 2021 | Cited: 2
22. **Quick review of seismic behavior of gravity quay wall**
IOP Conference Series: Materials Science and Engineering 1058 (1), 012046, 2021 | 2021 | Cited: 2
23. **Experimental and numerical modeling to investigate the riverbank's stability**
SN Applied Sciences 3 (2), 164, 2021 | 2021 | Cited: 20
24. **Fire resistance of selected construction materials**
AIP Conference Proceedings 2213, 020008-1-020008-9, 2020 | 2020 | Cited: 11
25. **Digital maps of mechanical geotechnical parameters using GIS**
Cogent Engineering 7 (1), 1779563, 2020 | 2020 | Cited: 29
26. **Erosion, sediments transport and riverbank stability: A review**
IOP Conference Series: Materials Science and Engineering 901 (1), 012014, 2020 | 2020 | Cited: 11
27. **Design, manufacturing and testing of biaxial mechanical travelling pluviator**
IOP Conference Series: Materials Science and Engineering 870 (1), 012071, 2020 | 2020 | Cited: 9
28. **Seismic performance of bridge piers**
IOP Conference Series: Materials Science and Engineering 870 (1), 012069, 2020 | 2020 | Cited: 9
29. **Effect of Saturation on Thermal Conductivity of Granular Materials**
Key Engineering Materials 857, 32-38, 2020 | 2020 | Cited: 1
30. **Design and manufacturing of geotechnical laboratory tools used in physical modeling**
Cogent Engineering 6 (1), 1637622, 2019 | 2019 | Cited: 14
31. **Design and manufacturing of flume apparatus to investigate the failure mechanism of riverbanks**
Cogent Engineering 6 (1), 1655234, 2019 | 2019 | Cited: 10
32. **Froude number data analysis and its implications on local scour**
2019 12th International Conference on Developments in eSystems Engineering ...;, 2019 | 2019 | Cited: 10
33. **Design, manufacturing and testing of small shaking table**
International Journal of Engineering and Technology 7 (4(20)), 426-430, 2018 | 2018 | Cited: 5
34. **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
35. **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

36. **Seismic performance of concrete dam-reservoir system**
Int J Eng Technol 4 (20), 4873-4879, 2018 | 2018 | Cited: 4
37. **Effects of vertical loading on lateral screw pile performance**
Proceedings of the Institution of Civil Engineers-Geotechnical Engineering ..., 2017 | 2017 | Cited: 97
38. **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
39. **Prediction of One-Dimensional Compression Test using Finite Elements Model**
International Journal of Engineering Research 5 (05), 2016 | 2016 | Cited: 1
40. **Newmark sliding block model for pile-reinforced slopes under earthquake loading**
Soil Dynamics and Earthquake Engineering 75, 265-278, 2015 | 2015 | Cited: 39
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. **Centrifuge modeling of the seismic performance of pile-reinforced slopes**
Journal of Geotechnical and Geoenvironmental Engineering 140 (6), 04014014, 2014 | 2014 | Cited: 100
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. **Seismic performance of pile-reinforced slopes**
University of Dundee, 2013 | 2013 | Cited: 19
45. **Aftershocks and the whole-life seismic performance of granular slopes**
Géotechnique 63 (14), 1230-1244, 2013 | 2013 | Cited: 171
46. **International Journal of Physical Modelling in Geotechnics: Referees 2017**
International Journal 18 (1), 0 | 0
47. **International Journal of Physical Modelling in Geotechnics**
International Journal 15 (1), 0 | 0
48. **International Journal of Physical Modelling in Geotechnics: Referees 2019**
0
49. **International Journal of Physical Modelling in Geotechnics: Referees 2018**
0
50. **International Journal of Physical Modelling in Geotechnics: Referees 2021**
0
51. **International Journal of Physical Modelling in Geotechnics: Referees 2016**
International Journal 17 (1), 0 | 0
52. **International Journal of Physical Modelling in Geotechnics: Referees 2020**
0