

Hasan Ali Abbas

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Lecturer

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EDUCATION

(07-07-2020) دكتوراه

Geotechnical engineering

MARA University of Technology

RESEARCH METRICS

h-index (Scopus)	10
h-index (GS)	9
Citations (Scopus)	219
Citations (GS)	254
Documents (Scopus)	31
Documents (GS)	39

AWARDS

• n/a

ACADEMIC TITLES

2020-12-29 **Lecturer**

PUBLICATIONS (44)

1. **Real-Time Vibration-Based Bridge Health Monitoring Systems: A Systematic Literature Review**
   Iranian Journal of Science and Technology, Transactions of Civil Engineering ..., 2026 | 2026
2. **Microstructural and Geotechnical Evaluation of Cement-Stabilized Crude Oil-Contaminated Silty Clay**
   Civil Engineering Journal | 2026
3. **Interpretable Random Forest Framework for Predicting Triaxial Shear Strength Parameters of Gypseous Soils Using Modified Collapse Test Indicators**
   Journal of Energy and Sustainable Environment 1 (1), 2026 | 2026
4. **Mitigating infrastructure risks in gypseous soils: combining random forest modeling with monte carlo simulation**
   Discover Civil Engineering 3, 2026 | 2026 | Cited: 1
5. **Behaviour of Concrete Beams in Flexure and Bonding with Fibre-Reinforced Polymer Plate Reinforcement**
   Jurnal Kejuruteraan 32 (2), 887-897, 2026 | 2026
6. **Design and Implementation of an IoT-Based Framework Device for Water Quality Assessment and Management**
   Jordan Journal of Civil Engineering | 2026
7. **Machine learning and regression-based approaches for UCS estimation in weathered sandstone**
   International Journal of Applied Science and Engineering | 2026
8. **A Hybrid Data-Driven Approach for Seismic Response Prediction of Tapered Piles Using RBF Interpolation**
   Transportation Infrastructure Geotechnology 13 (92), 2026 | 2026 | Cited: 1
9. **Modal analysis of simply supported corrugated plate using finite element method**
   IOP Conference Series: Earth and Environmental Science 1619 (1), 012018, 2026 | 2026 | Cited: 1
10. **Nanomaterial-Enhanced Stabilization of Soft Clayey Soils: Optimal Content, Mechanical Performance, and Practical Frameworks**
    International Journal of Basic and Applied Sciences | 2025 | Cited: 2
11. **Behaviour and Mechanical Characteristics Anisotropy of Weathered Shale, Sandstone and Composite Specimens Under Unconfined and Confined Compressive Stress**
    2025
12. **Advancing Engineering Education Through Virtual Reality for Outcome-Based Safety Competency**
    2025 IEEE 14th International Conference on Engineering Education (ICEED), 77-82, 2025 | 2025
13. **Modeling and Mechanisms of Desiccation-Induced Cracking and Curling in Clay Soils: A State-of-the-Art Review**
    Geotechnical and Geological Engineering 43, 2025 | 2025 | Cited: 18
14. **Behavior and mechanical characteristics anisotropy of Weathered Shale, Sandstone, and composite specimens under unconfined and confined compressive stress**
    Engineering Geology, 108195, 2025 | 2025 | Cited: 9

15. **Assessment of Geotechnical Behavior of Gypseous Soil under Leaching Effect using Machine Learning**
Franklin Open, 100297, 2025 | 2025 | Cited: 7

16. **A CRITICAL REVIEW OF DEEP LEARNING APPLICATIONS, CHALLENGES, AND FUTURE DIRECTIONS IN STRUCTURAL ENGINEERING**
International Journal for Computational Civil and Structural Engineering 21 (1), 2025 | 2025 | Cited: 4

17. **Predicting Collapse Potential in Gypseous Soils: A Hybrid Approach Combining Random Forest Modeling and Uncertainty Quantification**
Journal of GeoEngineering 20 (4), 159-173, 2025 | 2025 | Cited: 1

18. **Modal Analysis of Reinforced Concrete Beams with Varying Thicknesses Using FEM**
International Conference on Concrete Engineering and Technology, 343-352, 2024 | 2024

19. **Enhancing UHPC Beam Performance with GFRP Sheets**
Jurnal Kejuruteraan 36 (6), 2673–2682, 2024 | 2024

20. **Exploring Shear Wave Velocity—NSPT Correlations for Geotechnical Site Characterization: A Review**
CivilEng 5 (1), 119-135, 2024 | 2024 | Cited: 10

21. **A Review on the Mechanical Performance of High-Volume Fly Ash Light-Weight Concrete**
Engineering, Technology & Applied Science Research 14 (5), 17524-17531, 2024 | 2024 | Cited: 1

22. **Leaching-induced alterations in the geotechnical and microstructural attributes of clayey gypseous soils**
Ain Shams Engineering Journal 15 (7), 102865, 2024 | 2024 | Cited: 14

23. **Application of an AI-based optimal control framework in smart buildings using borehole thermal energy storage combined with wastewater heat recovery**
Journal of Energy Storage 101, 113824, 2024 | 2024 | Cited: 20

24. **Impact of recycled polypropylene fibers on the density and strength of unreinforced concrete**
Journal of Applied Engineering Design & Simulation (JAEDS) 4 (1), 46-55, 2024 | 2024 | Cited: 9

25. **Effect of utilising of sugarcane bagasse fibers on mechanical properties of composite materials . a review**
Edelweiss Applied Science and Technology 8 (6), 2024 | 2024 | Cited: 2

26. **EFFECT OF WETTING / DRYING CYCLES ON THE SWELLING POTENTIAL OF ANKAWA ALLUVIAL SEDIMENTS**
Journal of Madenat Al-elem University College | 2023 | Cited: 1

27. **Modelling Analysis of Earthquake Impact on R.C Buildings in Baghdad using SAP200**
JOURNAL OF APPLIED ENGINEERING DESIGN AND SIMULATION | 2023

28. **Deformation behaviour, crack initiation and crack damage of weathered composite sandstone-shale by using the ultrasonic wave and the acoustic emission under uniaxial compressive stress**
International Journal of Rock Mechanics and Mining Sciences | 2023

29. **Deformation behaviour, crack initiation and crack damage of weathered composite sandstone-shale by using the ultrasonic wave and the acoustic emission under uniaxial ...**
International Journal of Rock Mechanics and Mining Sciences 170, 105497, 2023 | 2023 | Cited: 72

30. **Anisotropic AE attenuation in mapping of composite specimen progressive failure under unconfined loading**
International Journal of Geomechanics 23 (4), 04023005, 2023 | 2023 | Cited: 14

31. **N. Efecto de la cáscara de arroz como reemplazo del cemento en propiedades mecánicas del concreto**
Revista de Ingeniería Mecánica 20 (2), 91-104, 2023 | 2023 | Cited: 5

32. **Shear strength characteristics of weathered jointed Kenny Hill interbedded formation for cylindrical specimen under direct shear test**
INTERNATIONAL JOURNAL OF APPLIED MECHANICS AND ENGINEERING 28 (2), 1-12, 2023 | 2023 | Cited: 2

33. **Modelling analysis of earthquake impact on RC buildings in Baghdad using SAP200**
JOURNAL OF APPLIED ENGINEERING DESIGN AND SIMULATION 3 (2), 49-56, 2023 | 2023 | Cited: 1

34. **Effect of rice-husk as replacement cement on mechanical properties concrete/Mohd Najmudin Helmi Abu Bakar...[et al.]**
Journal of Mechanical Engineering (JMechE) 20 (2), 91-104, 2023 | 2023 | Cited: 7

35. **Effect of Rice-Husk as Replacement Cement on Mechanical Properties Concrete**
Journal of Mechanical Engineering | 2023 | Cited: 8

36. **Anisotropic index strength behaviour and failure mode validation of weathered shale**
Geomechanics and Geoengineering | 2022

37. **Characterization of the body wave anisotropy of an interbedded sandstone-shale at multi orientations and interlayer ratios**
Geotechnical and Geological Engineering 40 (7), 3413-3429, 2022 | 2022 | Cited: 15

38. **Anisotropic index strength behaviour and failure mode validation of weathered shale**
Geomechanics and Geoengineering, 1-19, 2020 | 2020 | Cited: 11

39. **Anisotropic behavior and deformation of composite weathered sandstone and shale under destructive and non-destructive stresses**
Universiti Teknologi MARA, 2020 | 2020 | Cited: 1

40. **Anisotropic behavior and deformation of composite weathered sandstone and shale under destructive and non-destructive stresses, in civil engineering secondary**

Universiti Teknologi MARA (UiTM), Malaysia, Location, 2020 | 2020 | Cited: 3

41. **A review of methods, techniques and approaches on investigation of rock anisotropy**

AIP conference proceedings 2020 (1), 020012, 2018 | 2018 | Cited: 20

42. **Estimation of soil young modulus based on the electrical resistivity imaging (ERI) by using regression equation**

AIP conference proceedings 2020 (1), 020071, 2018 | 2018 | Cited: 13

43. **Comparative study of linear and non-linear analysis of Statnamic loading test for different pile lengths**

AIP Conference Proceedings 2020 (1), 020013, 2018 | 2018 | Cited: 1

44. **Evaluating the Numerical Analysis for Statnamic Data by Comparing with the Conventional Methods**

UTHM, 2015 | 2015