

BENGİN MASİH AWDEL HERKİ

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Nationality: British-Iraqi

PERSONAL PROFILE

- Friendly, responsible, very practical, and hardworking person.
- Works under pressure.
- Excellent communication skills.
- Detail and result-orientated person.
- Over 15 years of experience in civil and environmental engineering

EDUCATION

2011 – 2014 **University of Wolverhampton (UK)**
PhD Civil Engineering Sustainable Materials

Thesis: Engineering properties of sustainable lightweight concrete incorporating novel aggregates produced by a novel technique of densifying waste polystyrene.

2008 – 2009 **University of Wolverhampton (UK)**
MSc Civil Engineering

Thesis: Capillary water absorption and strength of concrete incorporating used foundry sand.

EMPLOYMENT

2021-Current **Soran University (Kurdistan-Iraq)**

Lecturer & Researcher

Academic title: Assistant Professor

2018-2021 **Bayan University (Kurdistan-Iraq)**

Vice-President for Scientific Affairs

2014 – 2018 **Soran University (Kurdistan-Iraq)**

- Dean of Faculty of Engineering – Head of Department of Civil Engineering.
- Member of curriculum development high committee, KRG ministry of higher education.

2012 – 2013 **University of Wolverhampton (UK)**

Teaching Assistant and supervising final year students' dissertations in different topics of civil engineering.

2010 – 2011 **Soran University (Kurdistan-Iraq)**

Director of Teaching Quality Assurance (TQA) and Accreditation.

TEACHING, RESEARCH and SCIENTIFIC ACTIVITIES

- Lecturing Civil Engineering Modules: Concrete Technology, Water Supply Engineering, Environmental engineering, and Construction materials.
- Supervision and Evaluation: BSc, MSc, and PhD dissertations.
- Conducting review process for national and international peer-reviewed journals.

SKILLS

IT: Proficient in IT systems and tools and advanced user of MSO.

Languages: Fluent and confident in Kurdish, English and Persian, Survival in Turkish and Arabic.

Driving: Clean British driving licence.

SELECTED PUBLICATIONS

Book

1. Herki, Bengin M. A., M. J. Khatib., A. Elkordi (2019) Characteristics of concrete containing EPS [Book Chapter]. Use of Recycled Plastics in Eco-Efficient Concrete. 137-165. Elsevier Ltd.

Articles

2. Awla, D.D.; Herki, B.M.A.; Sherwani, A.F.H. (2025). Low-Carbon Concrete Reinforced with Waste Steel Rivet Fibers Utilizing Steel Slag Powder and Processed Recycled Concrete Aggregate—Engineering Insights. *Fibers*, 13(8), 109.
3. Othman PM, Awdel Herki B.M. (2025). Influence of Locally Sourced Recycled Tire Steel Fibers and Waste Aluminum on the Strength and Absorption Properties of Fiber-Reinforced Concrete. *Cihan U Erbil SCI J*, 9(2):33-41.
4. Herki, Bengin M. A., Ali, A. I., Smail, Y. S., & Omer, K. M. (2025). An Innovative Approach to Enhancing Concrete Sustainability: Utilising Unprocessed Steel Slag with Low CaO and High SiO₂ Content. *Buildings*, 15(9), 1514
5. Herki, Bengin M (2024) Strength and Absorption Study on Eco-Efficient Concrete Using Recycled Powders as Mineral Admixtures under Various Curing Conditions. *Recycling* 9 (5) 99.
6. Herki, Bengin M; Khatib, J; Ramadhan, Z; Hamadameen, B (2023) Condition Assessment of Building Concrete Structures Using NDTs – Case Study. Recent Studies. As-proceeding.
7. Herki, Bengin M; Khatib, J; Hamadamin, M; Kareem, F (2022) Sustainable Concrete in the Construction Industry of Kurdistan-Iraq through Self-Curing. *Buildings* 12 (9) 1318.
8. Ali, B; R, Kurda; B, Herki (2020) Effect of varying steel fiber content on strength and permeability characteristics of high strength concrete with micro silica. *Materials* 13 (24), 5739.
9. Karimi, H; Bengin MA Herki (2020) Identifying Public Parking Sites Using Integrating GIS and Ordered Weighted Averaging Approach in Sanandaj City, Iran. *Journal of Critical Reviews* 7 (4), 506-513.
10. Herki, Bengin, M, A (2020) Concrete capillarity under different curing conditions produced in Kurdistan-Iraq. *Advances in Science and Technology Research Journal* 14 (2).
11. Herki, Bengin, M, A (2020) Lightweight Concrete Using Local Natural Lightweight Aggregate. *Journal of Critical Reviews* 7 (4) 490-497.
12. Karimi, H; Bengin MA Herki, SQ Gardi, S Galali, H Hossini, K Mirzaei, M Pirsahab (2020) Site selection and environmental risks assessment of medical solid waste landfill for the City of Kermanshah-Iran. *International Journal of Environmental Health Research*, 1-13
13. Herki, Bengin, M, A (2020) Effect of Different Curing Regimes on Capillarity of Concrete Incorporating Local Materials. *Journal of Critical Reviews* 7 (4) 524-530.
14. Darae, A., Bengin M. A. Herki., Aryan H. Sherwan., Shokrollah Zare (2018) Rehabilitation of Portal Subsidence of Heybat Sultan Twin Tunnels: Selection of Shotcrete or Geogrid Alternatives. *International Journal of Geosynthetics and Ground Engineering* 4 (15).
15. Darae, A., Bengin M. A. Herki., Aryan H. Sherwan., Shokrollah Zare (2018) Slope Stability in Swelling Soils Using Cement Grout: A Case Study. *International Journal of Geosynthetics and Ground Engineering* 4 (10).
16. Herki, B. M. (2017) Absorption Characteristics of Lightweight Concrete Containing Densified Polystyrene. *Civil Engineering Journal* 8 (3) 594-609.

17. Herki, B. M. (2017) Combined Effects of Densified Polystyrene and Unprocessed Fly Ash on Concrete Engineering Properties. *Buildings* 7 (3) 177.
18. Herki, B. M (2017) Study of the Rapid Drawdown and Its Effect on Portal Subsidence of Heybat Sultan Twin Tunnels in Kurdistan-Iraq. *Civil Engineering Journal* 7 (3) 496-507.
19. Mohammad M. Bahramian, Abbas Khaksar-Manshad, Nader Fathianpour, Amir H. Mohammadi, Bengin Masih Awdel Herki, Jagar Abdulazez Ali (2017) Improved estimation of permeability of naturally fractured carbonate oil reservoirs using wavenet approach. *Petroleum & Coal* 59 (6) 785-796.
20. Herki, B. A; Sherwani, A; Safari, Z; Mohammad, S; Jawhar, Y (2017) Promoting the Use of Waste Glass Concrete in Developing Countries. *International Journal of Scientific & Engineering Research*. Volume 8, Issue 3.
21. El-sayed, N; Niyazbekova, R; Lyazzat, B; Utelbayeva, A; Herki, B. A (2017) Effect of methyl cellulose/poly(acrylic acid) blends on Physico-mechanical properties of Portland cement pastes. *Oriental Journal of Chemistry*. Volume 33, Issue 1.
22. Herki, B. A., M.J. Khatib, (2016). Structural behaviour of reinforced concrete beams containing a novel lightweight aggregate. *International Journal of Structural Engineering*.
23. Herki, B. A., M.J. Khatib, (2016). Valorisation of waste expanded polystyrene in concrete using a novel recycling technique. *European Journal of Environmental and Civil Engineering*.
24. Herki, B. A; Safary, Z; Khalid, O (2016). Engineering Properties of Sustainable Lightweight Concrete Using Waste Polystyrene. *International Journal of Engineering and Innovative Technology*. Volume 5, Issue 12.
25. Herki, B. A., & Khatib, J. M. (2013). Lightweight Concrete Incorporating Waste Expanded Polystyrene. *Advanced Materials Research*, 787, 131-137.
26. Khatib, J. M., Herki, B. A., & Kenai, S. (2013). Capillarity of concrete incorporating waste foundry sand. *Construction and Building Materials*, 47, 867-871.
27. Khatib, J. M., Herki, B. A., Firat, S., Menadi, B., & Kenai, S. (2013). Capillarity of concrete incorporating foundry sand as replacement of sand. *Journal of New World Sciences Academy*, 2011, Volume: 6, Number: 4.
28. Herki, B. A., Khatib, J. M., & Negim, E. M. (2013). Lightweight Concrete Made from Waste Polystyrene and Fly Ash. *World Applied Sciences Journal* 21 (9): 1356-1360.
29. Herki, B. A., M.J. Khatib., D. Searle and P. Georgakis, 2013. Properties of lightweight concrete prepared with waste polystyrene and fly ash. 2th. International seminar on earthquake and sustainable materials. Ankara, Turkey; January 2013.
30. Herki, B. A., M.J. Khatib., D. Searle and P. Georgakis, 2012. Absorption of Concrete Incorporating Waste Polystyrene. International scientific-practical conference. Kazakhstan; December 2012.
31. Herki, B. A., M.J. Khatib., D. Searle and P. Georgakis, 2012. Mechanical properties of concrete incorporating waste lightweight aggregate. 6th. International conference and workshop on the built environment in developing countries. Adelaide, Australia; December 2012.
32. Khatib, J. M., B. A. Herki. (2011). Capillary water absorption of concrete incorporating WFS. *Concrete Plant International (CPI)* Vol 5, pp 50-53. www.cpi-worldwide.com.

REFERENCES

Available upon request