

C.V.

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Personal Profile

Dr Abdullah Kadhim has a PhD in the field of advanced materials and composites with specialisation of cement, concrete, and ceramic materials. I have obtained my PhD from Liverpool John Moores University – UK in 2021. As a young researcher, my extensive research interests covering various interdisciplinary perspectives concerning the theory and practice of advanced hybrid technologies in analytical characterisation techniques of wide range of inorganic oxide compounds aiming at the development of low-carbon innovative construction materials. I have a continuing interest for the initiating of further research projects and collaborations of construction materials produced by lower energy consumption to be used in heavy-duty applications. Initial background as a civil engineer with a first-class Bachelor of Engineering with honours (BEng with Hons) from Liverpool John Moores University -UK. I am also an associate fellow of the higher education academy (AFHEA). I also have enormous enthusiasm towards the achievement of the UN's Sustainable development goals (SDGs) as I have involved in several sustainability projects in universities as a sustainability manager.

Education

2017-2021, PhD in civil engineering, Liverpool John Moores University (LJMU)/ UK. Awarded in July 2021.

Thesis Title: Synthesis of One-Part Alkali-Activated Cement and Albite-Diopside Glass-Ceramic from Calcium-Alumina-Silicate Precursors.

<https://researchonline.ljmu.ac.uk/id/eprint/15273/>

2014-2016: Bachelor of Engineering (BEng) with honours in civil engineering from Liverpool John Moores University (LJMU)/ UK. First-Class (Grade of 75%). Awarded in June 2016

Employment

2016-2017: Student Enrolment coordinator, Faculty of Engineering, University of Babylon-Iraq.

November 2019-February 2020: Project supervisor for undergraduate students, Civil Engineering Department, Liverpool John Moores University. I have supervised the experimental part of number of undergraduate students who's their research involving construction materials production and assessments.

May 2021- June 2021: Research assistant in the investigations of low-carbon cementitious materials, civil engineering department, Liverpool John Moores University.

October 2021- March 2023: Lecturer at the Department of Building Technologies and Construction Engineering in Al-Mustaqbal University College, Iraq. I also took the position of sustainability officer at the university during this period. During this work, I have been involved in drawing the long-term sustainability plans of the university. I also been responsible of the required documentations and the submissions of the sustainability university ranking such as THE Times Impact and UI green Metric.

March 2023 – present: Lecturer and head of quality assurance division the college of engineering at Al-Qasim Green University.

Qualifications and Skills:

- Collaborations in multi-sectoral areas including research, sustainability, and fund grants.
- Proven teaching experience and presentation skills.
- Excellent team working and verbal communication skills.
- Advanced skills of IT software (AutoCAD, Revit, Universal Analysis 2000, Match3, ASTA and Microsoft Office applications).
- Academic writing and publications of several peer-reviewed journal and conference articles.
- Scientific reviewer for several journals and conferences.
- Member of the organising and scientific committees of several international conferences.
<https://uomus.edu.iq/ICFSE2023/SteeringCommittee.aspx>

Awards and Achievements:

- Certificate of appreciative and acknowledgement from the Iraqi Minister of Higher Education and Scientific Research (2016).
- Postgraduate outstanding researcher communicator (2020)/ Liverpool John Moores University.
- The reception of the chancellor of Liverpool John Moores University as outstanding PhD researcher.
- Associate fellow of the higher education academy (AFHEA).

- Graduate and registered member in wide range of professional bodies (ICE, IOM³, ACerS, ICT).
- My Ph.D. thesis has been chosen as the ‘Faculty of engineering and technology best thesis’ for the year of 2022 from Liverpool John Moores University.
- I also, recently, won the award of Advances in Cement Research Prize - 2022 ICE Publishing Awards, Institution of Civil Engineers (ICE),
<https://www.icevirtuallibrary.com/page/authors/awards-2022.2022>.

Published Papers

- Kadhim, A., Sadique, M., Al-Mufti, R. and Hashim, K., 2020. **Long-term performance of novel high-calcium one-part alkali-activated cement developed from thermally activated lime kiln dust.** *Journal of Building Engineering*, 32, p.101766.
<https://doi.org/10.1016/j.jobe.2020.101766>
- Kadhim, A., Sadique, M., Al-Mufti, R. and Hashim, K., 2020. **Developing one-part alkali-activated metakaolin/natural pozzolan binders using lime waste.** *Advances in Cement Research*, pp.1-16.
<https://doi.org/10.1680/jadcr.19.00118>
- Gkantou, M., Georgantzia, E., Kadhim, A., Kamaris, G.S. and Sadique, M., 2023, May. **Geopolymer concrete-filled aluminium alloy tubular cross-sections.** *In Structures (Vol. 51, pp. 528-543). Elsevier.*
<https://doi.org/10.1016/j.istruc.2023.02.117>
- Sadique, M., Kadhim, A., Atherton, W. and Kot, P., 2020. **Development of New Precursors for One-Part Alkali-Activated Geopolymer Using Industrial Wastes.** *In Sustainable Environmental Geotechnics* (pp. 115-123). Springer, Cham.
https://doi.org/10.1007/978-3-030-51350-4_13
- Al-Musawi, T.J., McKay, G., Kadhim, A., Joybari, M.M. and Balarak, D., 2022. **Activated carbon prepared from hazelnut shell waste and magnetized by Fe₃O₄ nanoparticles for highly efficient adsorption of fluoride.** *Biomass Conversion and Biorefinery*, pp.1-16. [10.1007/s13399-022-02593-z](https://doi.org/10.1007/s13399-022-02593-z)
- Shubbar, A., Nasr, M.S., Kadhim, A., Hashim, T.M. and Sadique, M., 2023. **Performance Comparison of 45° and 90° Herringboned Permeable Interlocking Concrete Pavement.** *Infrastructures*, 8(5), p.97.
<https://doi.org/10.3390/infrastructures8050097>

- Kadhim A., Sadique M., Atherton W. and Kot. **Development of alkali activated cementitious binder synthesised from metakaolin, volcanic tuff and lime waste.** The first international conference on Innovation in Low-Carbon Cement and Concrete technology (ILCCC), 2019. University College London (UCL), London, 24-26th June 2019.
- Obaid, H.A., Hashim, T.M., Al-Abody, A.A.M., Nasr, M.S., Abbas, G.H., Kadhim, A.M. and Sadique, M., 2022. **Properties of Modified Warm-Mix Asphalt Mixtures Containing Different Percentages of Reclaimed Asphalt Pavement.** *Energies*, 15(20), p.7813. <https://doi.org/10.3390/en15207813>
- Hashim, T.M., Nasr, M.S., Jebur, Y.M., Kadhim, A., Alkhafaji, Z., Baig, M.G., Adekunle, S.K., Al-Osta, M.A., Ahmad, S. and Yaseen, Z.M., 2022. **Evaluating Rutting Resistance of Rejuvenated Recycled Hot-Mix Asphalt Mixtures Using Different Types of Recycling Agents.** *Materials*, 15(24), p.8769. <https://doi.org/10.3390/ma15248769>

Patents under filing

- **Title:** Development of one-part alkali-activated cement for construction.
- **Title:** Development of low sintered Glass-Ceramic as alternative to natural stone.

Referees:

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