

Professor Jamal Khatib

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ACADEMIC QUALIFICATIONS

1987-1991	PhD, Construction/Structural Materials, University of Aberdeen - UK.
1985-1986	MSc (taught course), Structural Engineering, University of Liverpool – UK
1978-1983	BEng, Civil/Structural Engineering, BAU – Lebanon
1997-1999	Postgraduate Certificate in Teaching and Learning in Further and Higher Education - Sheffield Hallam University- UK
2005-2007	Postgraduate Certificate in Project Management with Distinction , Sheffield Hallam University – UK
1996-1997	Certificate in Environment Management System -Institute of Quality Assurance-UK

CAREER CHRONOLOGY

2016-date	Professor of Civil Engineering	Beirut Arab university
2012-date	Emeritus Professor of Civil Engineering, Faculty of Science and Engineering	University of Wolverhampton
2012-2016	Professor of Civil Engineering (Construction Materials), Faculty of Science and Engineering	University of Wolverhampton
2007-2012	Associate Professor (Reader) in Civil Engineering Materials, Built Environment, School of Technology	University of Wolverhampton
2007-10	Member of the West Midlands Centre for Constructing Excellence (WMCCE)	WMCCE
2003-06	Project Manager (Centre for Infrastructure Management-CIM)	Sheffield Hallam University
1997-06	Lecturer / Senior Lecturer	Sheffield Hallam University
1994-97	Research Fellow	University of South Wales
1991-93	Research Fellow	University of Aberdeen
1987-91	Teaching / Research Assistant	University of Aberdeen

PROFESSIONAL/OTHER QUALIFICATIONS

2001	Honorary Professor - Awarded by Inner Mongolia University of Science and Technology, China
2010	Chartered Engineer (CEng) , Member of the Institution of Civil Engineers (MICE)-UK.
2016	Fellow of the Institution of Civil Engineers, UK
2007	Fellow of the Higher Education Academy (FHEA) - UK.
2002	Chartered Engineer (CEng) , Member of the Institution of Engineers of Ireland (MIEI)
1984	Member of the “ Ordre des Ingenieurs et Architects”- Liban.
2013	Member of the Engineering Professors’ Council – UK
2015	European Engineer (EUR ING) , European Federation of National Engineering Associations (FEANI)

RESEARCH AND SCHOLARSHIP ACTIVITY

COMPLETED PHD SUPERVISIONS (28 students)

CURRENT PHD SUPERVISIONS (2 students)

PHD EXAMINATIONS (80 Students)

Independent Chair to six PhD examinations

PUBLICATIONS

ISI Web of Science H-index: 34

Citation (Google) web link: <http://scholar.google.com/citations?hl=en&user=eRDOWn8AAAAJ>

	All	Since 2021
Citation	17025	9444
H-index	59	48
i10-index	233	188

REFEREED JOURNALS (>180)

1. Makhmetova A.R., Negim El-Sayed, Ainakulova D.T., Yeligbayeva G., **Khatib J.M. (2024)**, "An Overview of Epoxy Resins as coating to protect metals from corrosion", *Complex Use of Mineral Resources- Engineering and Technology*, Creative Commons, ISSN-L 2616-6445, ISSN 2224-5243, 328(1):20-32, Accepted: April 4, 2023, DOI: [10.31643/2024/6445.03](https://doi.org/10.31643/2024/6445.03)
2. Ghanem, H.; Ramadan, R.; **Khatib, J.**; Elkordi, A. (2024), "A Review on Chemical and Autogenous Shrinkage of Cementitious Systems". *Materials*, Vol. 17, 283. Published: 5 January 2024, <https://doi.org/10.3390/ma17020283>
3. **Khatib, J.**; Ramadan, R.; Ghanem, H.; Elkordi, A. (2024), "Effect of Adding Phragmites-Australis Fiber on the Mechanical Properties and Volume Stability of Mortar". *Fibers* 2024, Vol. 12, Issue 2, 14. <https://doi.org/10.3390/fib12020014>, Published: 30 January 2024
4. Ammar Babiker, Yassir Abbas, M Iqbal Khan, **Jamal M Khatib (2024)**, Kinetic response of reinforced concrete slabs to high-velocity projectile impact-robust numerical and statistical driven modeling techniques, *Latin American Journal of Solids and Structures*, [ISSN Print : 1679-7817, Online : 1679-7825], Published 15 February 2024.
5. Firas Barraj, Ali Hatoum, **Jamal Khatib**, Joseph Assaad, Alberte Castro, Adel Elkordi (2024), Uncertainty analysis for the dynamic modulus of recycled asphalt mixtures using unclassified fractionated RAP materials, *Construction and Building Materials*, Volume 421, 135721, published 29 March 2024, <https://doi.org/10.1016/j.conbuildmat.2024.135721>
6. Jad Bawab, Hilal El Hassan, Amr El-Dieb, **Jamal Khatib (2024)**. Accelerated Carbonation Curing of Concrete Incorporating Calcium Carbide Residue. *Journal of Building Engineering*, 109258. <https://doi.org/10.1016/j.jobbe.2024.109258>
7. Ghanem, H.; Ramadan, R.; **Khatib, J.**; Elkordi, A. (2024), "Volume Stability and Mechanical Properties of Cement Paste Containing Natural Fibers from Phragmites-Australis Plant at Elevated Temperature". *Buildings* 2024, 14, 1170. <https://doi.org/10.3390/buildings14041170>, Published: 21 April 2024
8. Abdulkader El-Mir, Tony Fayad, Joseph J. Assaad, Mohamad Ezzedine El Dandachy, **Jamal Khatib**, Hilal El-Hassan (2024), Multi-criteria optimization of SBR-modified mortar incorporating polyethylene terephthalate waste, *Case Studies in Construction Materials*, Available online 14 May 2024, 20 (e03295), <https://doi.org/10.1016/j.cscm.2024.e03295>
9. Chour, Abbas and **Khatib, Jamal (2024)** "An In-Depth Analysis of Natural Fibers: A Comprehensive Review of Properties and Performance Characteristics", *BAU Journal - Science and Technology*: Vol. 5: Iss. 2, Article 1. DOI: <https://doi.org/10.54729/2959-331X.1136>
10. ElKhatib, Lelian; **Khatib, Jamal**; Hassan, Abbas; Kassem, Mohammad; and Elkordi, Adel (2024) "An Experimental Study on the Effect of Salt and Sugar Combination on Mortar Properties", *BAU Journal - Science and Technology*: Vol. 5: Iss. 2, Article 3. DOI: <https://doi.org/10.54729/2706-784X.1131>
11. Jad Bawab, Hilal El-Hassan, Amr El-Dieb, **Jamal Khatib (2024)**, "Synergetic impact of volcanic ash and calcium carbide residue on the properties and microstructure of cementitious composites", *Construction and Building Materials*, Volume 439, 16 August 2024, 137390, Available online 10 July 2024. <https://doi.org/10.1016/j.conbuildmat.2024.137390>
12. Ezzedine El Dandachy, M.; Hassoun, L.; El-Mir, A.; **Khatib, J.M. (2024)**, "Effect of Elevated Temperatures on Compressive Strength, Ultrasonic Pulse Velocity, and Transfer Properties of Metakaolin-Based Geopolymer Mortars". *Buildings* 2024, 14, 2126. Published 11 July 2024. <https://doi.org/10.3390/buildings14072126>
13. Hassan Ghanem, Chouk El Bouz, Rawan Ramadan, Adrien Trad, **Jamal Khatib** and Adel Elkordi (2024), "Effect of Incorporating Cement and Olive Waste Ash on the Mechanical Properties of Rammed Earth Block", *Infrastructures* 2024, 9(8), 122; Published: 25 July 2024, <https://doi.org/10.3390/infrastructures9080122>
14. G.ZH. Yeligbayeva, E.S. Negim, G.ZH. Moldabayeva, Z.B. Atabekova, **J. Khatib**, L.K. Bekbayeva (2024), "Elastometers for Downhole Screw Pump", *Neft i gaz*, March 2024, 1 (139), DOI: [10.37878/2708-0080/2024-1.15](https://doi.org/10.37878/2708-0080/2024-1.15)
15. Al-Massri, G., Ghanem, H., **Khatib, J.**, Kirgiz, M. S., & Elkordi, A. (2024). Chemical shrinkage, autogenous shrinkage, drying shrinkage, and expansion stability of interfacial transition zone material using alkali-treated banana fiber for concrete. *Journal of Structural Integrity and Maintenance*, 9(3), 2390650. Pub 19 Aug 2024. <https://doi.org/10.1080/24705314.2024.2390650>
16. **Khatib J (2024)**, Editorial, *Proceedings of the Institution of Civil Engineers – Construction Materials*, Vol. 177, No. 4, pp: 177, Emerald Pub, <https://doi.org/10.1680/jcoma.2024.177.4.177>
17. ElKhatib, L.W.; **Khatib, J.**; Assaad, J.J.; Elkordi, A.; Ghanem, H. (2024), "Refractory Concrete Properties—A Review". *Infrastructures* 2024, Vol. 9, Issue 8, 137. Published: 19 August 2024. <https://doi.org/10.3390/infrastructures9080137>

18. Zahid, M., Khan, M. I., Shafiq, N., Abbas, Y. M., & **Khatib, J. M. (2024)**. Achieving superior mechanical performance in one-part geopolymer composites through innovative hybrid fiber systems of recycled steel and PVA fibers. *Journal of Materials Research and Technology*. Volume 32, September–October 2024, pp 1772-1787, <https://doi.org/10.1016/j.jmrt.2024.08.002>
19. Al-Massri, G.; Ghanem, H.; **Khatib, J.**; El-Zahab, S.; Elkordi, A. **(2024)**, The Effect of Adding Banana Fibers on the Physical and Mechanical Properties of Mortar for Paving Block Applications. *Ceramics Journal*, Vol. 7, Issue 4, pp1533–1553. Published: 23 October 2024, [hps://doi.org/10.3390/ceramics7040099](https://doi.org/10.3390/ceramics7040099)
20. Ghazzawi, S.; Ghanem, H.; **Khatib, J.**; El Zahab, S.; Elkordi, A. **(2024)**, Effect of Olive Waste Ash as a Partial Replacement of Cement on the Volume Stability of Cement Paste. *Infrastructures* 2024, 9, 193. Published: 29 October 2024, <https://doi.org/10.3390/infrastructures9110193>
21. Babiker, A., Abbas, Y. M., Khan, M. I., & **Khatib, J. M. (2024)**. Improving predictive accuracy for punching shear strength in fiber-reinforced polymer concrete slab-column connections via robust deep learning. *Structures*, Vol. 70, p. 107797, December. Elsevier. <https://doi.org/10.1016/j.istruc.2024.107797>
22. Ramadan, R., Elkordi, A., Ghorbel, E., Ghanem, H., & **Khatib, J. (2024)**. Investigating volume stability Performance of paste with Phragmites Australis (PA) Fibers. *Procedia Structural Integrity*, Vol. 64, pp1927-1934. <https://doi.org/10.1016/j.prostr.2024.09.261>
23. Jahami, A.; Dayaa, L.; Assaad, J.J.; Baalbaki, O.; **Khatib, J. (2024)**, "Flexural Strength of Structural Beams Cast Using Combined Normal-Weight and Lightweight Concrete Mixtures". *Buildings* 2024, 14, 3787. Published: 27 November 2024, <https://doi.org/10.3390/buildings14123787>
24. Lynn Dayaa, Joseph J. Assaad, **Jamal Khatib (2024)**, Effect of Volume Fraction and Orientation of Steel Fiber on The Structural Performance of Normal Strength Reinforced Concrete Beams, *Steps for Civil, Constructions and Environmental Engineering*, December, Vol. 2, No. 4, pp1-13, DOI: [10.61706/sccee12011135](https://doi.org/10.61706/sccee12011135)
25. Firas Barraj, Ali Hatoum, Joseph J. Assaad, Ghida Alhakim, **Jamal Khatib**, Yasser Assaf and Adel Elkordi **(2025)**, "Characterisation of Superpave recycled asphalt mixtures utilising optimum contents of fatty amine-based asphalt additive", *International Journal of Masonry Research and Innovation* (ISSN: 2056-9459, eISSN: 2056-9467), Inderscience Publishers (IEL), Vol. 10, No. 1, pp 76-99, <https://doi.org/10.1504/IJMRI.2025.142976>
26. Mehmet Serkan Kirgiz, **Jamal Khatib**, Andre Gustavo de Sousa Galdino, Said Kenai, Ahmed Ashteyat, Raul D.S.G. Campilho, Roberto Alonso Gonzalez Lezcano, Gideon Olukunle Bamigboye, N. Nagaprasad & Krishnaraj Ramaswamy **(2025)**, "Waste marble sludge and calcined clay brick powders in conventional cement farina production for cleaner built environment", *Scientific Reports*, January 2025, Vol. 15 Issue 1, DOI: [10.1038/s41598-024-83163-3](https://doi.org/10.1038/s41598-024-83163-3)
27. **Khatib, J.**, ElKhatib, L., Assaad, J. & El Kordi, A. **(2025)**. Properties of mortar containing Phragmites Australis Ash. *Journal of Engineering, Design and Technology*. Vol 32, No. 2, pp 666-681. <https://doi.org/10.1108/JEDT-12-2022-0610>
28. Al-Massri, Ginan, Hassan Ghanem, **Jamal Khatib**, and Adel Elkordi **(2025)**, "Influence of Adding Banana Fibers on the Mechanical Properties and Volume Stability of Mortar for Paving Block Applications", *Journal of Natural Fibers*, Vol. 22, No. 1, 2464152. Online 15 February 2025, doi: [10.1080/15440478.2025.2464152](https://doi.org/10.1080/15440478.2025.2464152)
29. Ghannoum, M.; Shamoun, L.; Nasr, D.; Assaad, J.J.; Riahi, H.; **Khatib, J. (2025)**, "Efficiency of Stochastic Finite Element Random Fields and Variables to Predict Shear Strength of Fiber-Reinforced Concrete Beams Without Stirrups". *Buildings* 2025, 15, 721. Published: 24 February 2025 <https://doi.org/10.3390/buildings15050721>
30. Elkhatab, Lelian, **Jamal Khatib**, Seyhan Firat, Hilal El Hassan, and Adel Elkordi **(2025)**, "Rehabilitation of Concrete Structures - A Review". *Gazi University Journal of Science*, online 3 January 2025. Vol. 38m Issue 2, pp 665-685 <https://doi.org/10.35378/qujs.1503207>.
31. Jad Bawab, Hilal El-Hassan, Amr El-Dieb, **Jamal Khatib (2025)** "Optimizing Carbon Sequestration and Performance of Concrete Masonry Blocks Containing Alkaline Industrial Waste". *Cleaner Engineering and Technology*, 100943. <https://doi.org/10.1016/j.clet.2025.100943>
32. Ghazzawi, S.; Ghanem, H.; Chahal, S.; **Khatib, J.**; Elkordi, A. **(2025)**, Mechanical and Physical Performance of Cement Paste Containing Olive Waste Ash: Implications for Paving Block Applications. *Appl. Sci.* 2025, 15, 3959. Published: 3 April 2025, <https://doi.org/10.3390/app15073959>
33. A. Hatoum, **J. Khatib**, F. Barraj, A. Elkordi **(2025)**, Framework to develop mechanistic-empirical pavement design towards sustainable road construction systems in data-scarce areas: Lebanon case study, *International Journal of Masonry Research and Innovation*, Inderscience Publishers (IEL), 10 (3-5), 249-265, <https://doi.org/10.1504/IJMRI.2025.146244>
34. Ramadan, R., Ghanem, H., **Khatib, J.**, & Elkordi, A. **(2025)**. Effect of incorporating plant-based natural fibres on the mechanical and durability properties of pastes and mortars. *International Journal of Masonry Research and Innovation*, Vol. 10, No. 3-5, 473-490. <https://doi.org/10.1504/IJMRI.2025.146258>

35. Yassine, Noura A.; ElKhatib, Lelian W.; Elkordi, Adel; Sonebi, Mohammed; and **Khatib, Jamal (2025)** "A Review on the Use of Salt and Sugar as Natural Admixtures in Concrete", BAU Journal - Science and Technology: Vol. 6: Issue 2, June, Article 8. DOI: <https://doi.org/10.54729/2959-331X.1163>
36. **Jamal Khatib**, Nicholas Chileshe (2025), Guest editorial: Towards the decarbonisation of the construction industry, 1 July 2025, International Journal of Building Pathology and Adaptation, Emerald Publishing Limited, Vol. 43, Issue 4, pp 569-572, <https://doi.org/10.1108/IJBPA-06-2025-282>
37. Rawan Ramadan, Hassan Ghanem, **Jamal M Khatib**, Adel M Elkordi (2025), "Effect of Plant-based natural fibers on the mechanical properties and volume change of cement paste", International Journal of Building Pathology and Adaptation, Vol. 43, Issue 4, pp 693-711. <https://doi.org/10.1108/IJBPA-11-2023-0166>
38. Hachem, A. A., **Khatib, J. M.**, & Ezzedine El Dandachy, M. (2025). Assessment of interfacial mortar-mortar bond and pure shear strength of metakaolin-based geopolymer. International Journal of Building Pathology and Adaptation. Vol. 43, Issue 4, pp 732-748, <https://doi.org/10.1108/IJBPA-02-2024-0031>
39. Jad Bawab, Hilal El-Hassan, Amr El-Dieb, **Jamal Khatib (2025)**, "Recycling of volcanic ash and carbide slag in blended mortars: A multi-criteria performance assessment", Environmental Challenges (ISSN 2667-0100), Volume 20, September 2025, 101222, <https://doi.org/10.1016/j.envc.2025.101222>.
40. Mehmet Serkan Kirgiz, **Jamal Khatib**, Raul D. S. G. Campilho, Ayub Elahi, Ahmed Ashteyat, Roberto A. Gonzalez-Lezcano, Touhami Tahenni, Gideon Bamigboye, Nagaraj Nagaprasad & Krishnaraj Ramaswamy (2025), "Modification mechanism of silver nanoparticles-functionalized MW-CNT and GGBFS and CQDs on the structural properties of geopolymer reinforced-composite beam". Scientific Reports, Vol. 15, 27997, Published 31 July 2025. <https://doi.org/10.1038/s41598-025-08910-6>
41. Hana Alsayed, Nour Wehbi, **Jamal Khatib**, Mehmet Serkan Kirgiz and Hilal El-Hassan (2025), "Light transmitting concrete with glass and optical fibers: A solution for sustainable buildings – A review", Mechanics of Composite Materials, Vol. 61, No. 4, September, 2025, <https://doi.org/10.1007/s11029-025-10309-3>
42. **Jamal Khatib**, Lelian W. ElKhatib, Hassan Ghanem, Adel Elkordi (2025), "Recent Trends in Construction Materials Using Bio-Ash", Steps For Civil, Constructions and Environmental Engineering (SCCEE), ISSN: 3005-8198 (Online), 3005-818X (Print), Vol. 3, Issue 2, 22 May, pp 9-13, <https://doi.org/10.61706/sccee12011170>
43. Hawa, L.; El-Mir, A.; **Khatib, J.**; Nasr, D.; Assaad, J.; Elkordi, A.; Ezzedine El Dandachy, M. (2025), Optimization of Metakaolin-Based Geopolymer Composite for Repair, Application. Journal of Composites Science, Published 1 October 2025, 9, 527, pp 1-19. <https://doi.org/10.3390/jcs9100527>
44. Ramadan, R., Barraj, F., **Khatib, J. M.**, Kirgiz, M. S., Ramaswamy, K., & Elkordi, A. M. (2025). Performance evaluation of cement mortar incorporating alkali-treated natural fibers of varying lengths and volume fractions. International Journal of Building Pathology and Adaptation, 1-22. <https://doi.org/10.1108/IJBPA-06-2025-0140>
45. Ghanem, H., Ghazzawi, S., **Khatib, J.**, Elkordi, A., & Kirgiz, M. S. (2025). Physical, Mechanical, and Volumetric Stability Properties of Mortar With Olive Waste Ash as Cement Substitute. Engineering Reports, Vol. 7, Issue 11, e70501. 14 November 2025, <https://doi.org/10.1002/eng2.70501>
46. Negim E.-S. , Bekbayeva L., Puzikova D.S., Zhurynov M.Zh., Nefedov A.N., Khussurova G.M., Shadin N.A., **Jamal Khatib (2026)**, Epoxy Resin Development for Anticorrosion Coatings, Kompleksnoe Ispolzovanie Mineralnogo Syra = Complex Use of Mineral Resources, Publisher: Institute of Metallurgy and Ore Beneficiation-Satbayev University, ISSN: 2224-5243 (Print), 2616-6445 (Online), 2026; 338(3):13-20, DOI: [10.31643/2026/6445.24](https://doi.org/10.31643/2026/6445.24)
47. **J.M. Khatib**; L.W. ElKhatib; A. Elkordi, M. Sonebi (2026) "Length change of mortar containing Phragmites Australis Ash (PAA)". *Materials Today: Proceedings* (ISSN: 2214-7853). Available online 18 July 2023. Vol. 121, pp 285-288 <https://doi.org/10.1016/j.matpr.2023.07.105>

REFEREED CONFERENCE PAPERS (>300)