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BRIEF CURRICULUM VITAE

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4. Academic Qualifications: BSc (1989; University of Baghdad); MSc (1996) & PhD (1999) (University of Baghdad)
5. Career History at University of Technology - Iraq: Lecturer: 2002- 2005; Assistant Professor: 2005- 2010; Professor: 2010 - present .
6. Field(s) of Specialization: Geotechnical Engineering
7. Current Research Areas/Topics: Soil improvement; soil dynamics; unsaturated soils; deep foundations.
8. Appointment as Editorial Board Member:
 - Geofluids Journal, Hindawi publishing
 - Journal of Engineering Research.
 - Diyala Journal of Engineering
 - Kerbala Engineering Journal
 - Al-Rafidain Engineering Journal (AREJ)
 - Al-Qadisiyah Journal for Engineering Sciences
 - Bilad Alrafidain Journal for Engineering Science and Technology (BAJEST)
9. Appointment as Journal Articles Reviewer:
 - Arabian Journal of Geosciences, Springer.
 - Indian Geotechnical Journal, Springer.
 - Computational Geomechanics.
 - International Journal of Computational Methods.
 - International Journal of Engineering.
 - International Journal of Physical Sciences.
 - Journal of Civil Engineering and Management
 - Journal of Rock Mechanics and Geotechnical Engineering– Elsevier.
 - Journal of Engineering and Manufacturing Technology (JEMT)
 - Neural Computing and Applications
 - Soils and Foundations, Elsevier
 - Tunneling and Underground Space Technology – Elsevier.
 - Geomechanics and Engineering, An International Journal, Techno Press, Korea.
 - Marine Georesources & Geotechnology, Taylor & Francis.
 - International Journal for Civil Engineering, Springer.
 - Geotechnical and Geological Engineering, Springer.
 - Road Materials and Pavement Design, Taylor & Francis.

- Journal of Engineering Science & Technology
- International Journal of Earth Sciences & Engineering –IJEE
- Measurement Journal – Elsevier
- Advances in Materials Science and Engineering
- Earth Sciences Research Journal
- American Journal of Civil Engineering and Architecture.
- European Journal of Environmental and Civil Engineering, Taylor & Francis.
- Bulletin of Engineering Geology and the Environment, Springer.
- Engineering Science and Technology an International Journal – Elsevier.
- Geosynthetics International – Institution of Civil Engineers, UK.
- Geotechnical Testing Journal, ASTM.
- Earthquakes and Structures, An International Journal, Techno press, Korea.
- Ships and Offshore Structures, Taylor & Francis.
- Environmental Earth Sciences, Springer.
- Journal of Asian Earth Sciences, Elsevier.
- Innovative Infrastructure Solutions, Springer.
- Building and Environment, Elsevier.
- International Journal of Technology (IJTech).
- Construction and Building Materials, Elsevier.
- Arid Land Research and Management.
- Computational Particle Mechanics, Springer.
- International Journal of Pavement Research and Technology, Elsevier.
- Acta Geotechnica Slovenica.
- Journal of Earthquake Engineering, Taylor & Francis.
- SN Applied Sciences, Springer.
- Advances in Civil Engineering, Hindawi Publishing.
- Geomechanics and Geoengineering: An International Journal, Taylor & Francis.
- Heliyon, Elsevier.
- Journal of Hydrology, Elsevier.
- Journal of Structural Integrity and Maintenance, Taylor & Francis.
- Archives of Agronomy and Soil Science, Taylor & Francis.
- International Journal of Physical Modelling in Geotechnics, Institution of Civil Engineers, UK.
- Shock and Vibration, Hindawi Publishing.
- Earthquake Engineering and Engineering Vibration, Springer.
- World Journal of Engineering
- Frontiers in Built Environment
- Journal of Engineering and Technological Sciences
- Ingeniería e Investigación Journal.
- Frontiers in Earth Science, section Earth and Planetary Materials.
- Journal of Testing and Evaluation, ASTM.
- Tikrit Journal of Engineering Sciences (TJES)
- Canadian Geotechnical Journal.
- Applied Ocean Research, Elsevier.
- Mathematical Problems in Engineering, Hindawi Publishing.
- Geotechnique, Institution of Civil Engineers, UK.
- Transportation Infrastructure Geotechnology, Springer.
- Sedimentary Geology.
- Journal of Cleaner Production, Elsevier.
- Ocean Engineering, Elsevier.
- Studia Geotechnica et Mechanica.
- Canadian Journal of Civil Engineering.
- Journal of Central South University, Springer.
- International Journal of Geomechanics, ASCE.
- Journal of Asian Architecture and Building Engineering, Taylor & Francis.
- International Journal of Ocean and Coastal Engineering.
- International Journal of Pavement Engineering, Taylor & Francis.
- Archives of Civil Engineering.
- Journal of Environmental Engineering and Landscape Management, Taylor & Francis.
- International Journal of Geomate.
- International Journal of Corrosion, Hindawi Publishing.
- Civil Engineering Beyond Limits (CEBEL).
- Geodinamica Acta, Taylor & Francis.
- Geofluids, Hindawi Publishing.

- Defence Technology, Taylor & Francis.
- Applied and Environmental Soil Science, Hindawi Publishing.
- Environmental Technology, Taylor & Francis.
- Modelling and Simulation in Engineering, Hindawi Publishing.
- Journal of Geotechnical and Geoenvironmental Engineering, ASCE.
- Environmental Science and Pollution Research, Springer.
- Structural Engineering International.
- Suranaree Journal of Science and Technology.
- Journal of Mountain Science.
- Particuology.
- Scientific Reports.
- Journal of Traffic and Transportation Engineering (English Edition).
- Journal of Materials in Civil Engineering (ASCE).
- Water, MDPI publishing.
- Journal of Applied Science and Engineering, Taylor & Francis.
- International Journal of Geotechnical Engineering, Taylor & Francis.
- International Journal of Multiphase Flow, Elsevier.
- International Journal of Polymer Science, Hindawi Publishing.
- Brilliant Engineering (BEN), Ataturk University Faculty of Engineering, Turkey.
- Journal of Engineering, Hindawi Publishing.
- Soils and Rocks.
- Scientia Iranica, International Journal of Science & Technology.
- Materials Today: Proceedings, Elsevier.
- Crystals, MDPI publishing.
- Open Engineering, Elsevier.
- Wireless Communications and Mobile Computing, Hindawi publishing.
- Practice Periodical on Structural Design and Construction, ASCE.
- PLOS ONE.
- Computational Intelligence and Neuroscience, Hindawi publishing.
- Frontiers in Physics.
- Lithosphere, Hindawi publishing.
- Journal of Current Science and Technology.
- Science Progress, SAGE publishing.
- Earthquake Science.
- Journal of Engineering, Design and Technology, Emerald publishing.
- Frontiers of Structural and Civil Engineering, Taylor & Francis.
- Journal of Sensors, Hindawi publishing.
- International Journal of Chemical Engineering, Hindawi publishing.
- Physics and Chemistry of the Earth, Science Direct.
- Applied Sciences, MDPI publishing.
- Journal of Harbin Institute of Technology.
- Arabian Journal for Science and Engineering, Springer.
- Open Geosciences.
- Matéria (Rio de Janeiro).
- Materials, MDPI publishing.
- Geomatics, Natural Hazards and Risk, Taylor & Francis.
- Journal of Engineering Research.
- Geotechnics, MDPI publishing.
- Journal of Applied Mathematics, Hindawi publishing.
- International Journal of Structural Integrity, Emerald Publishing.
- International Journal of Rail Transportation, Taylor & Francis.
- International Journal for Numerical and Analytical Methods in Geomechanics, John Wiley and Sons.
- Engineering Research Express.
- Buildings, MDPI publishing.
- International Journal of Concrete Structures and Materials, Springer.
- Latin American Journal of Solids and Structures.
- Journal of Marine Science and Application.
- Frontiers in Marine Science.
- Coatings, MDPI.
- Journal of Taibah University for Science, Taylor & Francis.
- Composites Part B: Engineering, Science Direct.
- Engineered Science.
- Journal of Pipeline Systems Engineering and Practice, ASCE.

- Alexandria Engineering Journal, Elsevier.
- Cogent Engineering, Elsevier.
- International Journal of GEOMATE.
- Vietnam Journal of Science, Technology and Engineering.
- Discover Environment,
- Ain Shams Engineering Journal, Science Direct.

10. Selected Journal Publications:

- Abood, A. S., **Fattah, M. Y.** and Al-Adili, A., (2023), "Assessment of Shear Strength Characteristics of the Unsaturated Gypseous Soil at Various Saturation Degrees", Cogent Engineering (2023), 10: 2283303. <https://doi.org/10.1080/23311916.2023.2283303>.
- Aswad, M. F., Al-Gharbawi1, A. S. A., **Fattah, M. Y.**, Mustfa, R. H., Hameed, H. R., (2023), "Improvement of Clayey Soil Characteristics Using Poly Acrylamide Geopolymer", Transportation Infrastructure Geotechnology <https://doi.org/10.1007/s40515-023-00340-z>.
- Al-Haddad, S. A., **Fattah, M. Y.** and Al-Ani, "Protection of Buried Pipeline Using Geosynthetics – A review", Geomechanics and Geoengineering, <https://doi.org/10.1080/17486025.2023.2288933>.
- Mohammed, Z. B., **Fattah, M. Y.**, Shehab, E. Q., (2023), "Effect of leachate contamination in municipal solid waste on clay liner characteristics", Journal of Engineering Research, <https://doi.org/10.1016/j.jer.2023.10.025>.
- Sadiq, A., **Fattah, M. Y.**, and Aswad, M. F., (2023), "Enhancement of the Acid Resistance of Silty Clay Using Nano-Magnesium Oxide", Materials, 2023, 16, 5035. <https://doi.org/10.3390/ma16145035> <https://www.mdpi.com/journal/materials>.
- Al-Gharbawi, A.S.A., Fattah, M.Y. & Mahmood, M.R. (2023), "Evaluation of the Collapse Potential Magnitude of Untreated and Treated Collapsible Gypseous Soil – A New Procedure", KSCE Journal of Civil Engineering. <https://doi.org/10.1007/s12205-023-1635-2>.
- Abdulaziz, M. A., Hamood, M. J., Fattah, M. Y., (2023), "A Review Study on Seismic Behavior of Individual and Adjacent Structures Considering the Soil – Structure Interaction", Structures, Vol. 52, pp. 348–369. <https://doi.org/10.1016/j.istruc.2023.03.186>.
- Al-Gharbawi, A.S.A., Najemalden, A.M., Fattah, M.Y., (2022), "Expansive Soil Stabilization with Lime, Cement, and Silica Fume", Applied Sciences, 13, 436. <https://doi.org/10.3390/app13010436>.
- Hilal, M.M.; Fattah, M.Y., (2022), "Evaluation of Resilient Modulus and Rutting for Warm Asphalt Mixtures: A Local Study in Iraq", Applied Science, 12, 12841. <https://doi.org/10.3390/app122412841>.
- Al-Haddad, S.A.; Al-Ani, F.H.; Fattah, M.Y., (2022), "Effect of Using Plastic Waste Bottles on Soil Response above Buried Pipes under Static Loads", Journal of Applied Sciences, 12, 12304. <https://doi.org/10.3390/app122312304>.
- Al-Dossary, A. A. S., Awed, A. M., Gabr, A. R., Fattah, M. Y., El-Badawy, S. M., (2023), "Performance enhancement of road base material using calcium carbide residue and sulfonic acid dilution as a geopolymer stabilizer", Construction and Building Materials, Vol. 364, 129959. <https://doi.org/10.1016/j.conbuildmat.2022.129959>.
- Ismael, M. Q., Joni, H. H., Fattah, M. Y., (2022), "Neural Network Modeling of Rutting Performance for Sustainable Asphalt Mixtures Modified by Industrial Waste Alumina", Ain Shams Engineering Journal, <https://doi.org/10.1016/j.asej.2022.101972>.
- Fattah, M.Y., Karim, H.H. & Al-Qazzaz, H.H., (2022), "Effect of Embedment Depth on Cyclic Behavior of Tank Footings on Dry Sand", Transportation Infrastructure Geotechnology, 9(2), pp. 220-235 . <https://doi.org/10.1007/s40515-021-00164-9>.
- Fattah, M. Y., Ahmed, B. A. and Ali, A. F., (2022), "Experimental Investigation on the Damping Characteristics in Dry and Saturated Sands", Mechanics Based Design of Structures and Machines. <https://doi.org/10.1080/15397734.2022.2104310>.
- Abdulrasool, A. S., Fattah, M. Y., Salim, N. M., (2022), "Displacements and Stresses induced by Vibrations of Machine Foundation on Clay Soil of Different Degrees of Saturation", Case Studies in Construction Materials, Vol. 17, e01327. <https://doi.org/10.1016/j.cscm.2022.e01327>.
- Obead, I.H., Fattah, M.Y. & Omran, H.A., (2022), "Role of Soluble Materials on the Hydro-mechanical Properties of Collapsible Gypseous Soil", Transportation Infrastructure Geotechnology. <https://doi.org/10.1007/s40515-022-00257-z>.
- Fattah, M. Y., Salim, N. M. and Al-Gharrawi, A. M. B., (2022), "Effect of Arrangement of Plugged and Unplugged Pipe Pile Group on the Contribution Ratios for Friction and End Bearing Capacity", Soil Mechanics and Foundation Engineering, Vol. 59, No. 1, (Russian Original) No. 1, pp. 7-14. DOI 10.1007/s11204-022-09778-8.
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- Alotaibi, E., Omar, M., Shanableh, A., Zeiada, W., Fattah, M. Y., Tahmaz, A., Arab, M. G., (2021), "Geogrid Bridging over Existing Shallow Flexible PVC Buried Pipe – Experimental Study", Tunnelling and Underground Space Technology 113 (2021) 103945. <https://doi.org/10.1016/j.tust.2021.103945>.
- Fattah, M.Y., Ismael, R.H. & Aswad, M.F. (2021), "Dispersion Characteristics of MgO-treated Dispersive Clay", Arabian Journal of Geosciences, 14, 605. <https://doi.org/10.1007/s12517-021-06957-z>.
- Obead, I. H., Omran, H. A., and Fattah, M. Y., (2021), "Implementation of Artificial Neural Network to Predict the Permeability and Solubility Models of Gypseous Soil", Pertanika Journal of Science & Technology 29 (1): 107 - 122 (2021). DOI: <https://doi.org/10.47836/pjst.29.1.06>.
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- Abd, I. A., Fattah, M. Y., Mekkiyah, H., (2020), "Relationship between the matric suction and the shear strength in unsaturated soil", Case Studies in Construction Materials, Vol. 13, <https://doi.org/10.1016/j.cscm.2020.e00441>.
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- Asmael, N.M., Fattah, M.Y. and Kadhim, A. J., (2020), "Exploring the Effect of Warm Additives on Fatigue Cracking of Asphalt Mixtures", Journal of Applied Science and Engineering, Vol. 23, No. 2, pp. 197-205. [https://doi.org/10.6180/jase.202006_23\(2\).0003](https://doi.org/10.6180/jase.202006_23(2).0003).
- Bouassida, M., Fattah, M. Y. & Mezni, N. (2022), "Bearing Capacity of Foundation on Soil Reinforced by Deep Mixing Columns", Geomechanics and Geoengineering, 17(1), pp. 309-320, DOI: 10.1080/17486025.2020.1755458.
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- Al-Omari, R. R., Fattah, M. Y., Fadhil, S. H., (2020), "Load Sharing and Behavior of Single Pile Embedded in Unsaturated Swelling Soil", European Journal of Environmental and Civil Engineering, Vol. 24, No. 12, 1967–1992, <https://doi.org/10.1080/19648189.2018.1495105>, Taylor and Francis Group.
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- Mahmoud D. Ahmed, PhD., The Use of Acrylate in Grouting Some Iraqi Gypseous Soils, 2008.
- Madhat, S. M. Al-Soud, PhD., Analysis of Soil-Structure Interaction Problems by the Boundary Element Method, 2008.
- Saad, F. A. Al-Wakeel, PhD., Experimental and Numerical Investigations of Foundation Vibrations, 2010.
- Hanan, A. Hasan, PhD., An Experimental and Theoretical Study on Ordinary and Encased Stone Columns Underneath Embankment, 2013.
- Abbas, F. I. Al-Aery, PhD., Transient and Steady State Response Analysis of Soil Foundation System Acted Upon by Vibrations, 2013.
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- Abbas, M. Kalai, PhD., Load Transfer in Pile Group Constructed on Unsaturated Clayey Soils, 2015.
- Mohammed, F. Asad, PhD., Behavior of Improved Railway Ballast Overlying Clay Using Geogrid, 2016.
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- Huda, N. Al-Nomani, Long-Term Behavior of a Gypseous Soil, 2005.
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- Maha, H. Nssaif, Coupled Dynamic Analysis of Al-Adhaim Earthdam, 2008.
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- Hadeel, A. Mohammed, Behavior of Partially Saturated Soils under Strip Footings in Selected Locations at Baghdad City, 2012.
- Worood, T. S. Al-Shammery, Effect of Embedment on Dynamic Response of Foundations, 2013.
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- Ahmed, S. Al-Suhaily, Experimental Study on Uncertainties and Reliability of Soil Properties Improved by Stone Columns, 2014.
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- Basma, A. Dawood, Long-Term Behavior of Collapsible Gypseous Soil, 2017.
- Huda, B. Flayeh, New Method for Determining the Stability of Pavement Layers, 2017.
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