

Publications

Civil and Environmental Engineering Department

Year 2018

Journals

1. S.T. Aly, A.S. El-Dieb, M.M. Reda, "Ceramic Waste Powder for Eco-Friendly Self-Compacting Concrete," *ASTM Advances in Civil Engineering Materials*, 2018, Vol.7, No.1, pp. 426-445. Doi:10.1520/ACEM20180043 (Corresponding Author)
2. A.S. El-Dieb, D.M. Kanaan, "Ceramic Waste Powder an Alternative Cement Replacement – Characterization and Evaluation," *Journal of Sustainable Materials and Technologies*, 2018, Vol.17, e00063. doi.org/10.1016/j.susmat.2018.e00063. (Corresponding Author)
3. A.S. El-Dieb, T.A. El-Maaddawy, "Assessment of Reinforcement Corrosion Protection of Self-Curing Concrete," *Journal of Building Engineering*, 2018, Vol.20, pp.72-80. doi.org/10.1016/j.job.2018.07.007 (Corresponding Author)
4. A.S. El-Dieb, "From Landfill to Sustainable Concrete," Editorial, *MOJ Civil Engineering*, 2018, Vol.4, No.3, pp.136. doi: 10.15406/mojce.2018.04.00110.
5. A.S. El-Dieb, "Evaluating Concrete Durability using Simple Non-Destructive Test Towards Performance-Based Specifications," *MOJ Civil Engineering*, 2018, Vol.4, No.2, pp.100-102. doi: 10.15406/mojce.2018.04.00104.
6. A.S. El-Dieb, M.M. Reda Taha D.M. Kanaan, S.T. Aly, "Ceramic Waste Powder from Landfill to Sustainable Concretes," *Proceedings of the Institute of Civil Engineering: Construction Materials*, 2018, Vol.171, No.3, pp.109-116. doi.org/10.1680/jcoma.17.00019 (Corresponding Author)
7. A.S. El-Dieb, M.A. El-Ghareeb, M.A. Abdelrahman, E.A. Nasr, "Multifunctional Electrically Conductive Concrete using Different Fillers," *Journal of Building Engineering*, 2018, Vol.15, pp.61-69. doi:10.1016/j.job.2017.10.012 (Corresponding Author)
8. El-Hassan, H. and Ismail, N. (2018) "Effect of Process Parameters on the Performance of Fly Ash/GGBS Blended Geopolymer Composites", *Journal of Sustainable Cement-Based Materials*, Vol. 7, No. 2, pp. 122-140.
9. Ismail, N. and El-Hassan, H. (2018) "Development and Characterization of Fly Ash/Slag-Blended Geopolymer Mortar and Lightweight Concrete", *ASCE Journal of Materials in Civil Engineering*, Vol. 30, No. 4.
10. El-Hassan, H., El-Maaddawy, T., Al-Sallamin, A., and Al-Saidy, A. (2018) "Durability of Glass Fiber-Reinforced Polymer Bars Conditioned in Moist Seawater-Contaminated Concrete under Sustained Load", *Construction and Building Materials*, Vol. 175, pp. 1-13.
11. El-Hassan, H., Shehab, E., and Al-Sallamin, A. (2018) "Influence of Different Curing Regimes on the Performance and Microstructure of Alkali-Activated Slag Concrete", *ASCE Journal of Materials in Civil Engineering*, Vol. 30, No. 9.
12. Al Nahyan, M., Hawas, Y., Raza, M.; Aljassmi, H., Maraqa, M., Basheerudeen, B. and Mohammad, M. 2018, "A Fuzzy-based Decision Support System for Ranking the Delivery Methods of Mega Projects", *International Journal of Managing Projects in Business*, Emerald Publishing Limited, 11(1), 122-143, (Q1 in Scopus Business and International Management Category).
13. Al Nahyan, M., Hawas, Y., Aljassmi, H., and Maraqa, M. 2018, "Capturing the stakeholders' managerial competency risks of mega infrastructure projects: a fuzzy logic modelling approach", *International Journal of Project Organisation and Management*, Inderscience Publishers, 10(2), 109-136, (Q3 in Scopus Strategy and Management Category).
14. Aljassmi, H. and Abduljalil, Y. 2018, "Towards Cost-Time-Quality Optimized Construction Plans: An Experimental Approach", *International Journal of Innovation, Management and Technology*, 9(1), 70-73, (Q3 in Scopus

Management of Technology and Innovation Category).

15. Sweedan, A.M.I., Rojob, H.N. and El-Sawy, K.M. (2018) "Analytical and Numerical Study of the Serviceability Performance of Partial Composite Steel-FRP Beams", *International Journal of Structural Integrity*, Vol. 9, Issue: 5, pp. 625-645.
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23. Abu-Obaida, A., El-Ariss, B. and El-Maaddawy, T., 2018. Behavior of Short-Span Concrete Members Internally Reinforced with Glass Fiber–Reinforced Polymer Bars. *Journal of composites for construction*, 22(5), p.04018038.
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25. Hawas, Y. and Alam, MD (2018) Characteristics of the Severe Rollover Crashes in the UAE Using In-Depth Crash Investigation Data. *World Academy of Science, Engineering, and Technology International Journal of Transport and Vehicle Engineering* Vol:12, No:4, 2018 (First and Corresponding Author)
26. Al Nahyan, M.T., Hawas, Y.E., Al Jassmi, H. and Maraqa, M.A. (2018) "Capturing the Stakeholders' Managerial Competency Risks of Mega Infrastructure Projects: A Fuzzy Logic Modeling Approach" *the International Journal of Project Organisation and Management*, Vol 10 (2), DOI: 10.1504/IJPOM.2018.092087 (Corresponding Author)
27. Chowdhury, Rezaul K., Jameelu S. Abaya, Taoufik Tsiksi and Mohamad M. Mohamed. 2018. Removal of Heavy Metals in Vegetative Graywater Biofiltration Columns. *J. Environ. Eng., ASCE*, 2018, 144(11).
28. S. Sathish and M. Mohamed. Feasibility of Aquifer Storage and Recovery in selected sites in Abu Dhabi, *Environmental Earth Science*, 2018, 77:112.
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39. R. De Costa, N.A.K. Nandasena, "Pohutukawa bio-shield on the coast of New Zealand as a tsunami mitigation strategy", *European Journal of Environmental and Civil Engineering*, 2018. pp. 1-12. doi.org/10.1080/19648189.2018.1494635.
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42. C. Chen, B.W. Melville, N.A.K. Nandasena, "Investigations of Reduction Effect of Vertical Wall on Dam-Break-Simulated Tsunami Surge Exerted on Wharf Piles", *Journal of Earthquake and Tsunami*, Vol. 12 (02), 2018. doi.org/10.1142/S1793431118400067.
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Conferences

1. S.T. Aly, D.M. Kanaan, A.S. El-Dieb, S. Abu-Eishah, "Properties of Ceramic Waste Powder Based Geopolymer Concrete," the 16th International Congress on Polymers in Concrete 2018 (ICPIC 2018); Polymers for Resilient and Sustainable Concrete Infrastructure, Washington DC, USA, 29 April – 1 May 2018. (Corresponding Author)
2. A. GODAT, F. CERONI, O. CHAALLAL, M. PECCE (2018). "Comparison of FRP-to-concrete anchored joints designed for FRP shear-strengthened RC T-beams" *fib2018- 5th International fib Congress*, October 7-11, Melbourne, Australia.
3. A. GODAT AND O. CHAALLAL (2018). "Bond Mechanism of Innovative Anchorage Solution for FRP Shear-Strengthened RC T-beams using CFRP Rope" *MECHCOMP4- The 4th International Conference on Mechanics of Composites*, July 9-12, Madrid, Spain.
4. S. ELKHOULY AND A. GODAT, M. ELASSALY AND E. RABEE (2018). "Comparison between Different Strengthening Schemes

- for Punching Shear of Flat Plate Slabs", *CICE 2018- The 9th International Conference on FRP Composites in Civil Engineering*, July 17-18, Paris, France.
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 7. **Aljassmi, H.**, Al Najjar, F. and Ismail A. 2018, "Large-Scale 3D Printing: The Way Forward", 5th International Conference on Machine Design and Manufacturing Engineering (ICMDME2018), 22-23 November, Jakarta, Indonesia.
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 11. Essam Zaneldin and Waleed Ahmed. (2018). "Assessing the Impact of Using Educational Videos in Teaching Engineering Courses." Proceedings of the ASME 2018 International Mechanical Engineering Congress and Exposition (IMECE2018), November 9-15, 2018, Pittsburgh, PA, USA.
 12. Zaneldin, E. and Sivaloganathan, S. (2018). "Awareness of Trenchless Technologies in the UAE." Proceedings of the 2018 International Annual Conference of the American Society for Engineering Management (ASEM 2018), October 17-20, 2018, Coeur d'Alene, Idaho, USA.
 13. Sivaloganathan, S. and Zaneldin, E. (2018). "Revisiting Demolition Waste Management." Proceedings of the 2018 International Annual Conference of the American Society for Engineering Management (ASEM 2018), October 17-20, 2018, Coeur d'Alene, Idaho, USA.
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 15. Elkholy, S. and El-Hassan, H., (2018) "Performance of Geopolymer Concrete Reinforced by Steel Fibers" Proceedings of the International Conference on Civil and Infrastructure Engineering, ICCIE - Ras Al Khaimah, UAE, March 13 – 15, 2018.
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2018.

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32. Maali, A., and El-Maaddawy, T. (2018). "Efficiency of composite-based systems to upgrade the shear resistance of concrete T-beams." Proc. of the International Conference on Civil and Infrastructure Engineering, ICCIE – 2018, 13 – 15 March, Ras Al Khaimah, UAE.

Book Chapters

1. M. Nehra, N. Dilbaghi, A. Aly Hassan, S. Kumar, Chapter 1 - Carbon-Based Nanomaterials for the Development of Sensitive Nanosensor Platforms, in: A. Deep, S. Kumar (Eds.) Advances in Nanosensors for Biological and Environmental Analysis, Elsevier, 2019, pp. 1-25.

2. Al Nahyan, M.T, Sohal, A., Fildes, B, and Hawas Y. (2018). "Infrastructure Development in the UAE: Communication and Coordination Issues Amongst the Key Stakeholders." In: Ogunlana, S. and Dey P. (eds) Risk Management in Engineering and Construction: Tools and Techniques (Spon Research) [Hardcover], Routledge.

Patents