

## Civil Engineering Department Publications

### Published ARTICLES (2019-2020)

1. **Ahmed A. El-Abbasy**, “Performance Based Seismic Design of Skyscrapers”, Egypt’s First Skyscraper Conference, June, 19-20, 2019.
2. Mohamed Saad Issa, **Ahmed A. El-Abbasy**, “Examples Oriented Reinforced Concrete Text Book According to ACI318”, Dar Elmaarefa, Cairo, Egypt, 2019.
3. Mohamed Saad Issa, **Ahmed A. El-Abbasy**, “TANKS EXAMPLES-ORIENTED REINFORCED CONCRETE TEXTBOOK According to ACI318, ASCE/SEI 7, ACI350.3, and ACI350”, Dar Elmaarefa, Cairo, Egypt, March, 2020.
4. Magdy T. Elsheikh, **Ahmed A. El-Abbasy**, “Reliability Study on Using Structural Plain Concrete Footing Under Reinforced Concrete Footing”, Jouf University Science and Engineering Journal (JUSEJ), Vol. 7 No. 1, June, 2020, pp. 09- 17.
5. **Afzal Husain Khan**, Nadeem A Khan, Sirajuddin Ahmed Khan, Aastha Dhingra, Saif Ullah Khan, Ali Akbar Mohammadi , Fazlollah Changani , Mahmood Yousefi , Shamshad alam (2020), “Application of Advanced Oxidation Processes followed by different treatment technologies for Hospital wastewater” in Journal of Cleaner Production (Elsevier), Available online 31May,2020, <https://doi.org/10.1016/j.jclepro.2020.122411>
6. Nadeem A. Khan, Sirajuddin Ahmed, Izharul Haq Farooqi, Imran Ali, V. Vambol, Fazlollah Changani, Mahmood Yousefi, Sergij Vambol, Saif Ullah Khan, **Afzal Husain Khan** (2020),” Occurrence, Sources and Conventional Treatment Techniques for various antibiotics present in hospital wastewaters: A critical review” in TrAC Trends in Analytical Chemistry, Available online 5 June 2020, <https://doi.org/10.1016/j.trac.2020.115921>
7. Manzar, Mohammad Saood; Zubair, Mukarram; Khan, Nadeem A; **Khan, A.H**; Baig, Umair; Aziz, Muhammad Arif; Blaisi, Nawaf I.; Abdel-Magid, Hisham I. M. (Aug, 2020). “Adsorption behaviour of green coffee residues for decolourization of hazardous congo red and eriochrome black T dyes from aqueous solutions”. International Journal of Environmental Analytical Chemistry. <https://doi.org/10.1080/03067319.2020.1811260>
8. Mohd Aamir Mazhar; Nadeem A.Khan; Sirajuddin Ahmed; **Khan, A.H**; Azhar Hussain; Rahisuddin; Fazlollah Changani; Mahmood Yousefi; Shahin Ahmadi; ViolaVambol (Nov, 2020). Chlorination disinfection by-products in municipal drinking water– A review. Journal of Cleaner Production (Elsevier). <https://doi.org/10.1016/j.jclepro.2020.123159>
9. **Abdullah M.Zeyad**, **Afzal Husain Khan**, Bassam A.Tayeh (2020), “Durability and strength characteristics of high-strength concrete incorporated with volcanic pumice powder and polypropylene fibers”, Journal of Materials Research and Technology,

Volume 9, Issue 1, January–February 2020, Pages 806-818 ,  
<https://doi.org/10.1016/j.jmrt.2019.11.021>

10. Kruzhilko, O., Polukarov, O., Vambol, S., Vambol, V., Khan, N.A., Maystrenko, V., Kalinchyk, V., **Khan, A.H.**, (May, 2020). Control of the workplace environment by physical factors and SMART monitoring. Arch. Mater. Sci. Eng. 103, 18–29.  
<https://doi.org/10.5604/01.3001.0014.1770>
11. **Afzal Husain Khan** (2020) Book Chapter-(Accepted-Under production), “Comparison among treatment schemes for the removal of particular type of drugs and its residues” IWA PUBLISHING, England.
12. Nadeem A Khan, Sirajuddin Ahmed, Izharul Haq Farooqi, **Afzal Husain Khan**, V.Vambol, S. Vambol, Fazlollah Changani (2020) Book Chapter-(Accepted- Under production) “Advances and Application of Nano-Technology” CRC PUBLISHING, (Taylor and Francis group) England.
13. Rasdorf, W. and **Almalki, A.**, Highway Asset Deterioration Rates, Transportation Research Record: Journal of the Transportation Research Board, Transportation Research Board of the National Academies, Washington, D.C., 2019.
14. **Almalki, A.** and Rasdorf, W., Prediction of Future Asset Condition Ratings, Transportation Research Record: Journal of the Transportation Research Board, Transportation Research Board of the National Academies, Washington, D.C., submitted.
15. M. A. Ismaei, **A. E. Hassaballa**, Mohamed Y. Laissy, Isam Eldin Kamal and Fathalrahman Adam, "Evaluation and Strengthening of an Eight-Storey Existing Reinforced Concrete Building in Abha City, KSA", Advancements in Civil Engineering & Technology, ISSN 2639-0574, Vol. 2, Issue 5 (January 18, 2019), PP 1-18
16. Ali Hassan Mahfouz and **Mahmoud Abdelrahim Abdelgiom** (Sep.2020), “Geotechnical Investigation and Mapping of Jazan City, KSA using GIS ” in International Journal of Current Research, Available online 30 Sep.,2020,  
<http://www.journalcra.com>
17. Tariq Mahgoub Mohamed, Hisham Mohamed Hassan, **Mahmoud Abdelrahim Abdelgiom**, (June2019) “ Modeling the Relative Humidity in New Halfa Agricultural Scheme (Sudan)” in International Journal of Research in Environmental Science (IJRES), Available online june 2019, [www.arcjournals.org](http://www.arcjournals.org)
18. **Mahmoud Abdelrahim Abdelgiom** and Tarig Mahgoub Mohammed, (2019), “INTEGRATION BETWEEN GIS MODEL AND WATER DETECTORS FOR MONITORING AND MANAGING OF WATER NETWORK IN KHARTOUM CENTER AREA” in International Journal of Current Research, Available online January, 2019, <http://www.journalcra.com>
19. Mohamed A. Khadimallah, Muhammad Safeer, Muhammad Taj , Hamdi Ayed, Muzamal Hussain , **Souhail Mohamed Bouzgarrou** , S.R. Mahmoud, Manzoor Ahmad and Abdelouahed Tounsi “The effects of the surrounding viscoelastic media

- on the buckling behavior of single microfilament within the cell: A mechanical model” in Journal of Advances in Concrete Construction, Vol. 10, No. 2, Available online august, 2020, DOI: <https://doi.org/10.12989/acc.2020.10.2.141>, ESCI, SCOPUS, SCIE, Impact factor : 2.443(2019).
20. Waheed Iqbal, Mudassar Jalil, Mohamed A. Khadimallah, Hamdi Ayed, Muhammad N. Naeem, Muzamal Hussain, **Souhail Mohamed Bouzgarrou**, S.R. Mahmoud, E. Ghandourah, Muhammad Taj and Abdelouahed Tounsi “Runge-Kutta method for flow of dusty fluid along exponentially stretching cylinder” in Journal of Steel and Composite Structures, Volume 36, Number 5, September10 2020, pages 603-615DOI: <http://dx.doi.org/10.12989/scs.2020.36.5.603>, Impact factor : 4.394(2019)SCOPUS.
  21. Humaira Sharif, Muhammad N. Naeem, Mohamed A. Khadimallah, Hamdi Ayed, **Souhail Mohamed Bouzgarrou**, Abdullah. Al Naim, Sajjad Hussain, Muzamal Hussain, Zafar Iqbal, and Abdelouahed Tounsi,: “Energy effects on MHD flow of Eyring’s nanofluid containing motile microorganism” in Journal of Advances in Concrete Construction, Vol. 10, No. 4, Available online october, 2020, DOI: <https://doi.org/10.12989/acc.2020.10.4.000>, ESCI, SCOPUS, SCIE, Impact factor : 2.443(2019).
  22. **Mohamed, Y.A**, and Atta, Mahmoud M., SIMULATION OF SCOUR AT BRIDGE SUPPORTS. Journal of Croatian Association of Civil Engineers, Berislavićeva 6, Zagreb, Croatia. (under publishing 2020)
  23. **ZEYAD, A. M., KHAN, A. H. & TAYEH, B. A.** 2020. Durability and strength characteristics of high-strength concrete incorporated with volcanic pumice powder and polypropylene fibers. Journal of Materials Research and Technology, 9, 806-818
  24. **ZEYAD, A. M. & ALMALKI, A.** 2020. Influence of mixing time and superplasticizer dosage on self-consolidating concrete properties. Journal of Materials Research and Technology.
  25. TAYEH, B. A., HASANIYAH, M. W., **ZEYAD, A. M.**, AWAD, M. M., ALASKAR, A., MOHAMED, A. M. & ALYOUSEF, R. 2020. Durability and mechanical properties of seashell partially-replaced cement. Journal of Building Engineering, 101328.
  26. MUSTAFA M. AL-TAYEB , **A. M. Z.**, OSAMA DAWOUD & TAYEH, B. A. 2020. Experimental and numerical investigations of the influence of partial replacement of coarse aggregates by plastic waste on the impact load. International Journal of Sustainable Engineering, 19, 8.
  27. AL-TAYEB, M. M., AL DAOOR, I., ALI-HASAN, N. K. & **ZEYAD, A. M.** 2020. Effect of Partial Replacements of Coarse Aggregate by Polycarbonate Plastic Waste on the First Crack Impact Resistance of Concrete Beam.