البحوث المنشورة في سنة 2018

- 1-Khaleel Younis, Fatima Sh. Ahmed, Khalid Najim, (2018) Self-Compacting Concrete Reinforced with Steel Fibers from Scrap Tires: Rheological and Mechanical Properties", 1st International Engineering Conference, Erbil, Iraq, published in Eurasian Journal of Science and Engineering, (2018), 4 (1), PP:1-11
- 2-Khalid B Najim, Hamad M Hasan, Ehaab W Jarallah "Free Vibration Analysis of Rotating Clamped-Clamped Multi-Layered Cylindrical Shells Containing Functionally Graded Middle Layer, Al-Nahrain Journal for Engineering Sciences, 21 (1), PP: 153-160.
- 3-Khalid Najim, Abdulrahman Saeb, Zaid Al-Azzawi (2018) "Structural Behavior and Fracture Energy of Recycled Steel Fiber Self-Compacting Reinforced Concrete Beams" Journal of Building Engineering (Elsevier), 17, PP:174–182.
- 4-Ahmed Mouthanna, Hamad M. Hasan, Khalid Najim, (2018) 'Nonlinear Vibration Analysis of Functionally Graded Imperfection of Cylindrical Panels Reinforced with Different Types of Stiffeners, 11th International Conference on the Developments in eSystems Engineering(DeSE), Special Session: Sustainable Engineering and Environmental Technologies, 2nd – 5th September 2018, At: Cambridge, England, UK (IEEE).
- 5-Khaleel Younis, Fatima Sh. Ahmed, Khalid Najim, (2018) Effect of Recycled-Steel Fibers on Compressive Strength and Shrinkage Behavior of Self-Compacting Concrete, 11th International Conference on the Developments in eSystems Engineering (DeSE), Special Session: Sustainable Engineering and Environmental Technologies, 2nd – 5th September 2018, At: Cambridge, England, UK (IEEE).
- 6-Khalid Najim, Saif Ibrahim, (2018) 'The effect of incorporation recycled concrete aggregate on the rheological properties of SCC using Taguchi approach, 11th International Conference on the Developments in eSystems Engineering(DeSE), Special Session: Sustainable Engineering and Environmental Technologies, 2nd 5th September 2018, At: Cambridge, England, UK (IEEE).

- 7-Iraqi A. mahmood, Ameer A. Hilal, Ibrahim AL- jumaily, "Effect of Sand replacement by silica Sand on strength of fibers reinforced foamed concrete. The IEEE 11th international conference on Developments in E-Systems Engineering DeSE.2018
- 8-Ameer Hilal, Effect of Sand Replacement by Silica Sand on Strength of Fibers Reinforced Foamed Concrete, 11th International Conference on Developments in eSystems Engineering (DeSE), Cambridge, United Kingdom, 2018
- 9-Ameer Hilal, On Production of Pre-Formed Foamed Geopolymer Concrete, 11th International Conference on Developments in eSystems Engineering (DeSE), Cambridge, United Kingdom, 2018.
- 10- Ayad Sulibi, Strength Tortuosity Porosity Relation in Locally Types of Porous Media (Experimental Model), IOP Conference Series: Materials Science and Engineering,454, (2018), 012093
- 11- Ayad Sulibi, HEAVY METAL REMOVAL FROM WASTEWATER USING RED MUD (BENTONITE) AND CORN COB, International Journal of Civil Engineering and Technology (IJCIET), Vol. 09 No. 13, 2018, pp. 1969-1976
- 12- Jebur, A. A. et al., "A Novel Artificial Neural Network Scheme for Modelling of Nonlinear Soil Stress-Strain Modulus Exponent," 2018 1st Annual International Conference on Information and Sciences (AiCIS), Fallujah, Iraq, 2018, pp. 62-69
- 13- Awad, A. and Parry, T., 2018. Investigation the Effect of Pavement Condition Characteristics on Bend Segments Accident Frequency: Application of Fixed and Random Parameters Negative Binomial Models
- 14- Awad, H.A., Parry, T. and Dawson, A., 2018. Evaluation of Road Pavement Condition Impact on Intersection Accident Frequencies Using Random Parameters Models (No. 18-04026)
- 15- Al-Sharrad, M. A. and Gallipoli, D. (2018) Modelling anisotropy of unsaturated soils using Bishop's stress. Proceedings of The 7th International Conference on Unsaturated Soils (UNSAT2018), Hong Kong China

- 16- Farhan, A. H., A. R. Dawson and N. H. Thom (2018a). "Recycled hybrid fiberreinforced & cement-stabilized pavement mixtures: Tensile properties and cracking characterization." Construction and Building Materials 179: 488-499
- 17- Farhan, A. H., A. R. Dawson and N. H. Thom (2018b). "Damage propagation rate and mechanical properties of recycled steel fiber-reinforced and cement-bound granular materials used in pavement structure." Construction and Building Materials 172: 112-124
- 18- Bashar Abdulazeez Mahmood, Yasir Al-Ani, Khalid Awadh Mohammed,Sadoon Obaid.2018.Feasibility of plastic wastes to improve the properties of Heet natural asphalt.Journal of Engineering and Applied Sciences,SJR 0.145
- 19- Ahmed, K., Al-Khateeb, B. & Mahmood, M., 2018a. A chaos with discrete multiobjective particle swarm optimization for pavement maintenance. Journal of Theoretical and Applied Information Technology, 96(8).
- **20-** Ahmed, K., Al-Khateeb, B. & Mahmood, M., **2018**b. Application of chaos discrete particle swarm optimization algorithm on pavement maintenance scheduling problem. Cluster Computing
- 21- Mahmood, M., Mathavan, S. & Rahman, M., 2018. A parameter-free discrete particle swarm algorithm and its application to multi-objective pavement maintenance schemes. Swarm and Evolutionary Computation
- 22- Mahmood, M., Rahman, M. & Mathavan, S., 2018. A multi-input deteriorationprediction model for asphalt road networks. In Proceedings of the Institution of Civil Engineers-Transport. pp. 12–23
- 23- Adham A., Khamis, N., Wesseling, J. G., Riksen, M.J.P.M., Abed, R., Ritsema, C.J., et al. (2018) (submitted); A GIS- based approach for identifying potential sites for harvesting rainwater in the Western Desert of Iraq. International Soil and Water Conservation Research 4 (6), 297-304
- 24- DM Abd, H Al-Khalid, R Akhtar, 2018. <u>Adhesion properties of warm-modified</u> <u>bituminous binders (WMBBs) determined using pull-off tests and atomic force</u> <u>microscopy</u>. Road Materials and Pavement Design 19 (8), 1926-1939

- 25- DM Abd, H Al-Khalid, R Akhtar, 2018. <u>Novel Methodology to Investigate and Obtain</u> <u>a Complete Blend between RAP and Virgin Materials</u>. Journal of Materials in Civil Engineering 30 (5), 04018060
- 26- DM Abd, H Al-Khalid, R Akhtar, 2018. <u>An investigation into the impact of warm mix</u> asphalt additives on asphalt mixture phases through a nano-mechanical approach. Construction and Building Materials 189, 296-306
- 27- Nassr, A., Javadi, A.A., Faramarzi, A., 2018. Developing constitutive models from EPR-based self-learning finite element analysis. Int. J. Numer. Anal. Methods Geomech. 42, 401–417. doi:10.1002/nag.2747
- 28- Nassr, A., Esmaeili-falak, M., Katebi, H., Javadi, A.A., 2018. A new approach to modelling the behaviour of frozen soils. Eng. Geol. 246, 82–90. doi:10.1016/j.enggeo.2018.09.018
- 29- Mohammed, H.A., Hurwitz, D.S., Smaglik, E. (2018). "Variable Driver Responses to Yellow Indications: An Operational Challenge and Safety Concern". ITE Journal 88 (1), 44–49
- **30-** Yousif Al Mashhadany, Mohammed K. Awsaj, "Detection of muscles diseases based on EMG signal by using locally recurrent neural networks (LRNNs) techniques" International Journal of Engineering & Technology, **7** (4) (2018) 4850-4855: (Scopus
- 31- N. Al-falahy and O. Y. K. Alani, "Reducing the Exposure to Millimetre Wave Radiation Using Distributed Base Stations in C-RAN Architecture," in 10th Computer Science & Electronic Engineering Conference (CEEC), 2018, pp. 1–6
- 32- N. Al-falahy and O. Alani, "Network capacity optimisation in millimetre wave band using fractional frequency reuse," IEEE Access, no. DOI 10.1109/ACCESS.2017.2762338, 2018
- 33- N. Al-Falahy and O. Alani, "Improved Capacity and Fairness of Massive Machine Type Communications in Millimetre Wave 5G Network," Computers, vol. 7, no. DOI:10.3390/computers7010016, pp. 1–19, 2018

- 34- Ahmed, A.K., Taha, M.Q., Mustafa, A.S. (2018). On-road automobile license plate recognition using co-occurrence Matrix. Journal of Advanced Research in Dynamical and Control Systems.
- 35-2- Taha, M.Q., Al-Jumaili, M.H., Ahmed, A.K. (2018). Modeling the dielectric mediums impact on coaxial transmission line performance. Journal of Engineering and Applied Sciences.
- 36- 3- Ali, Z. H., Abdullah, K. A., & Saeed, A. T. (2018). Modeling Solar Modules Performance Under Temperature and Solar Radiation of Western Iraq. International Journal of Power Electronics and Drive Systems, 9(4), 1842
- **37-** Proposed Design Against High-Cycle Fatigue Failure of Metallic Beams Using Lamination" Engineering and Technology Journal , V.36, Part A, No.5,2018
- 38- Hamdi E. Ahmed, B.H. Salman, A.Sh. Kherbeet, M.I. Ahmed, Optimization of thermal design of heat sinks: A review, International Journal of Heat and Mass Transfer 118 (2018) 129–153
- 39- A.A. Mahuof, G. Kotsikos, A.G. Gibson and R. Palacin. "Improving the Mechanical Properties of Carbon Fibre Composites Using the Combination of Graphene and Fibre Nanotubes". Proceedings of IC2NAM 2018 International conference, 4-5 August, Hamburg, Germany.
- 40- A.A. Mahuof, G. Kotsikos and A.G. Gibson. Improving the Mechanical Properties of Carbon Fibre Composite Using the Combination of Graphene and Fibre Nanotubes, IJPME, Vol 6, Issue-12, Pages 53-64(2018)
- 41- Impact of Fuselage Cutouts on the Stress and Deflection Behavior: Numerical Models and Statistical Analysis. IOP Conference Series: Materials Science and Engineering, 454 (2018), 012063 https://doi.org/10.1088/1757-899X/454/1/012063
- 42- Validation of a finite element model of the effect of knot topology on the mechanical performance of surgical suture, IMECE2018, 2018 ASME International Mechanical Engineering Congress & Exposition. November 9-15, 2018, David L. Lawrence Convention Center, Pittsburgh, PA, USA

- 43- H. Tao, S.O. Sulaiman, Z.M. Yaseen, H. Asadi, S.G. Meshram, M.A. Ghorbani.;
 (2018) What Is the Potential of Integrating Phase Space Reconstruction with SVM-FFA Data-Intelligence Model? Application of Rainfall Forecasting over Regional Scale, Water Resources Management, 32(12) 3935-3959
- 44- Ammar Adham, Khamis Naba Sayl, Rasha Abed, Mohamed Arbi Abdeladhim, Jan G. Wesseling, Michel Riksen, Luuk Fleskens, Usama Karim, Coen J. Ritsem "A GIS-based approach for identifying potential sites for harvesting rainwater in the Western Desert of Iraq"International Soil and Water Conservation Research International Soil and Water Conservation Research July 2018 DOI: 10.1016/j.iswcr.2018.07.003
- 45- Shamil K. Ahmed, Abdulkader Ismail Al-Hadithi, Saad J. Mohammed, "Producing of eco-friendly lightweight concrete using waste polystyrene particles as aggregates with adding waste plastic", Published in Iraqi Journal of Civil Engineering. Vol.(12), Issue(1), 2018, pp:45-56.
- 46- Sheelan Hama, Abdulkader Ismail Al-Hadithi, Mohammed Tarrad N. Al-Dulaim: "BENEFICIAL ROLE OF GLASS WASTES IN CONCRETE – A REVIEW".Published in Journal of Engineering and Sustainable Development. Vol.(22), Issue(2)-(Part-5),March 2018.
- 47- Noaman, A. T., Bakar, B. A., & Akil, H. M. (2018, September). Flexural Static Energy of Steel Fiber Rubberized Concrete Beams with Layered Distribution. In 2018 11th International Conference on Developments in eSystems Engineering (DeSE) (pp. 318-323). IEEE
- 48- Mustafa Ahmed Abbas, Abdulkader Ismail Al-Hadithi, "The Effects of adding Waste Plastic Fibers on The Mechanical Properties and Shear Strength of Reinforced Concrete Beams", Published in Iraqi Journal of Civil Engineering. Vol.(12), Issue(1), 2018, pp:111-124.
- 49- Abdulkader I. Al-Hadithi, Mahmood Fawzi Alani, "The importance of adding waste plastics on the properties of high performance concrete", Published in Proceedings of the Institution of Civil Engineers - Waste and Resource Management, Vol(171), Issue(2), 04/2018; pp:1-65, DOI:10.1680/jwarm.17.00040.

- 50- Abdulkader Ismail AI-Hadithi, BEVIAN AI-Hadithi, SUAAD NASIR, "The effects of adding waste pet fibers on the some mechanical properties of cement mortar under exposure to elevated temperature", Published in Journal of Engineering and Applied Sciences Vol(13), Issue(11), 06/2018; pp:3985-3996, DOI:10.3923/jeasci.2018.3985.3996.
- 51- Adil Abed, Abdulkader Al-Hadithi, Ahmed Salih Mohammed, "The effects of adding waste plastic fibers on some properties of roller compacted concrete". The 3rd International Conference on Buildings, Construction and Environmental Engineering, BCEE3-2017, Sharm el-Shiekh, Egypt, October 23-25, 2017; 05/2018, DOI:10.1051/matecconf/201816202008.
- 52- Z. Al-Azzawi, Abdulkader Al-Hadithi, A. Anees, "Enhancing mechanical properties of no-fines concrete using waste plastic fibres", Published in Journal of Engineering and Applied Sciences Vol(13), Issue(5), 08/2018; pp: 1210-1218.
- 53- Aseel Madallah Mohammed1, Ammar Ahmed Hammadi and Dr. Abdulkader Ismail Al-hadithi, "The Possibility of Producing Waste Plastic Reinforced Eco-Friendly Recycled Aggregate Concrete". INTERNATIONAL CONFERENCE ON ENGINEERING, MEDICINE AND APPLIED SCIENCES, (ICEMAS) Turky-Antalia 24-25 sep.-2018. Published in International Journal of Engineering & Technology, 7 (4.37) (2018) 153-156.
- 54- Abdulkader Ismail Al-Hadithi and Mustafa Ahmed Abbas, "The Effects of adding Waste Plastic Fibers on the Flexural Toughness of Normal Concrete". Journal of Engineering and Applied Sciences.Vol.(13), Issue(24),2018
- 55- Ibrahim Hakeem Alfahdawi, Siti Aminah Osman, Roszilah Hamid, Abdulkader Ismail Al-Hadithi, "MODULUS OF ELASTICITY AND ULTRASONIC PULSE VELOCITY OF CONCRETE CONTAINING POLYETHYLENE TEREPHTHALATE (PET) WASTE HEATED TO HIGH TEMPERATURE". Journal of Engineering Science and Technology 12/2018; 13(11):3577-3592.
- 56- Abdulkader I. Al-Hadithi, Mahamood Fawzi Al-Ani, "Effects of Adding Waste Plastics on Some Properties of High Performance Concrete", 2018 11th International Conference on Developments in eSystems Engineering (DeSE); 09/2018, DOI:10.1109/DeSE.2018.00055

- 57- Nebras M. Mhedi, Ameer A. Hilal, Abdulkader Al-Hadithi, "Re-Use of Waste Plastic as Fibers in Production of Modified Foamed Concrete", 2018 11th International Conference on Developments in eSystems Engineering (DeSE); 09/2018, DOI:10.1109/DeSE.2018.00059
- 58- Mahmoud Khashaa Mohammed Al-Ani, Abdulkader Ismail Al-Hadithi, Marwa H.Mohammed, Production and optimization of eco-efficient self compacting concrete SCC with limestone and PET
- **59-** Structural Behaviour and Fracture Energy of Recycled Steel Fibre Self-Compacting Reinforced Concrete Beams, Journal of Building Engineering, **2018.**
- **60-** Enhancing Mechanical Properties of No-fines Concrete Using Waste Plastic Fibres, Journal of Engineering and Applied Sciences, **13(5)**, **2018.**
- 61- FRP Strengthening of Web Panels of Steel Plate Girders against Shear Buckling Part-I: Static Series of Tests, Composite Structures, 206 (2018) 722-73
- 62- Effect of Adding The Plastic Waste as Fibers on Mechanical Properties of Concrete, Journal of Engineering and Sustainable Development, Vol.22No.2-2018
- 63- The Possibility of waste plastic reinforced eco-friendly recycled aggregate concrete ", International journal of engineering and technology-2018
- 64- Aldosary, M., Wang, J., Li, C. 2018 Structural reliability and stochastic finite element methods: State-of-the-art review and evidence-based comparison. Engineering Computations 35(4)
- 65- Mahmood, N. S., and Coffman, R. A., (2018c). "Small-strain of Reconstituted Soils: The Effect of Slurry Water Content." Geotechnical Testing Journal, (In press, Manuscript Number: GTJ-2018-0098- R1).
- 66- Mahmood, N. S. and Coffman, R. A., (2018b). "The Effects of Stress Path on the Characterization of Reconstituted Low Plasticity Kaolinite." Soils and Foundations, (Under Review, Manuscript Number: SANDF-D-17-00352-R1).
- 67- Mahmood, N. S., and Coffman, R. A., (2018a). "Intrinsic Shear Strength Behavior of Reconstituted Kaolinite and Illite Soils." Quarterly Journal of Engineering Geology and Hydrogeology, (In Review, Manuscript Number: qjegh2018-056-R1)

- 68- Mahmood, N. S. and Miranda, E. M., (2018). "GeoPrediction 2018 Report." The International Foundations Congress and Equipment Expo (IFCEE), Orlando, FL
- 69- Nahla N. Hilal, Qays Kareem and Mohammed T. Nawar, "Influence of Polyethylene Waste on Some Fresh and Mechanical Properties of Self-Compacting Concrete". Jouranal of Engineering and Applied Sciences. Vol (12), 2018, Issue: 14 SI, P.P.: 10901-10911
- 70- Mohammed T. Nawar. " Study on Flexural Behaviour and Cracking of Ferrocement Slabs by Neglecting Very Fine Sand". Iraqi Journal of Civil Engineering Vol.12, No.2, pp
- 71- Dr. Sheelan Mahmoud Hama, Mohammed Tarrad Nawar, Dr. Abdulkader Ismail Al-Hadith. " BENEFICIAL ROLE OF GLASS WASTES IN CONCRETE A REVIEW". Journal of Engineering and Sustainable Development Vol. 22, No.02 (Part-5), March 2018
- 72- A.J.Hadi,<u>H.K.AbdulKadir</u>,G.J.Hadi,K.B.Yusoh,and S.F.Hasany, Orient.J. Chem.,Vol. 34,No.2,1069-1077 (2018). Mechanical and Thermal Properties of the Waste Low and High Density Polyethylene- nanoclay Composites
- 73- H. K. Abdul Kadir, Haliza Jaya, N. Z. Noriman ,Omar S. Dahham, A.H. Mazelan,
 N.A. Latip, and A.K. Aini, 2018 IOP Conf. Ser.: Mater. Sci. Eng. 454 0012191. The
 Effect Of Phthalic Anhydride On R- Hdpe / Eva / Cff Composites: Tensile And Physical
 Properties.
- 74- Haliza Jaya, H. K. Abdul Kadir, N. Z. Noriman ,Omar S. Dahham, A.H. Mazelan, N.A. Latip, and A.K. Aini, 2018 IOP Conf. Ser.: Mater. Sci. Eng.454 0012190. The Influence of Chicken Feather Loading on Tensile and Physical Properties of R-Hdpe/Eva/Cff Composites.
- 75- Haliza Jaya, N. Z. Noriman , H. K. Abdul Kadir, Omar S. Dahham, Nazmizan Muhammad, N.A. Latip, and A.K. Aini, 2018 IOP Conf. Ser.: Mater. Sci. Eng.
 454 0012193. The Effect of Wood Sawdust Loading onTensile and Physical Properties of Up/Pf/Wsd Composites

76- Sufyan Fadil. (**2018**) " Performance of nanofiltration membranes on water demineralization assessment and comparative study ". Indian Journal of Advances in Chemical Scince. Accepted