

King Khalid University
College of Engineering/Civil Engineering Department

Publication Details 2019-2020

Refereed Journal Publications

1. Saiful Islam,Rini Asnida Binti Abdullah,Ali Algahtani,Kashif Irshad,Halinawati Hirol. PERFORMANCE OF VAPOUR PRESSURE MODELS IN THE COMPUTATION OF VAPOUR PRESSURE AND EVAPOTRANSPIRATION IN ABHA, ASIR REGION, SAUDI ARABIA, 2019, APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH ,
DOI: http://dx.doi.org/10.15666/aer/1704_96919715
2. Saiful Islam,Rini Asnida Binti Abdullah,Ali Algahtani,Kashif Irshad,Halinawati Hirol. PERFORMANCE EVALUATION OF MASS TRANSFER-BASED METHOD USING GLOBAL PERFORMANCE INDEX IN SEMIARID REGION, SAUDI ARABIA,2019, APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH ,DOI: http://dx.doi.org/10.15666/aer/1705_1112111141
3. Basharat Jamil,Kashif Irshad,Ali Algahtani,Saiful Islam,Mohammad A.Ali,Azam Shahab. On the calibration and applicability of global solar radiation models based on temperature extremities in India, 2019, Environmental Progress & Sustainable Energy, doi.org/10.1002/ep.13236
4. Sayed Ameenuddin; Kashif Irshad; Ali Algahtani; Saiful Islam ; Mohammad Azam; Razali, Radzua.Moving Boundary Problem for Modeling of Nutrient Release from Double Coated Urea,2019,Journal of Biobased Materials and Bioenergy,DOI: <https://doi.org/10.1166/jbmb.2019.1904>
5. Muhammad Bilal, Janet E. Nichol, Majid Nazeer, Yuan Shi, Lunche Wang, K. Raghavendra Kumar, Hung Chak Ho, Usman Mazhar, Max P. Bleiweiss, Zhongfeng Qiu, Khaled Mohamed Khedher and Simone Lolli.Characteristics of Fine Particulate Matter (PM2.5) over Urban, Suburban, and Rural Areas of Hong kong,2019,Atmosphere,Doi: <https://doi.org/10.3390/atmos10090496>
6. Mohamed Hechmi El Ouni, Nabil Ben Kahla, Mohd Ahmed, Saiful Islam, Hamdi Ayed, Khaled Mohamed Khedher. Comparative Study of Different Active Control Strategies of High Rise Buildings under Seismic Excitation, 2019, Periodica Polytechnica Civil Engineering,63(4), 1092-1102. <https://doi.org/10.3311/PPci.14367>
7. Mohamed Hechmi El Ouni, Nabil Ben Kahla, Saiful Islam, Mohammad Jameel. A Smart Tower Crane to Mitigate Turbulent Wind Loads, 2019, Structural Engineering International , <https://doi.org/10.1080/10168664.2019.1668334>

8. Sarraj Rihème, Letaief Wissem Elkhal., Hassine Tarek, Gamaoun Fehmi, EL Ouni Mohamed Hechmi. Modeling of Hydrogen Diffusion Towards a NiTi Arch Wire Under Cyclic Loading, 2019, Metals and Material International, <https://doi.org/10.1007/s12540-019-00425-w>

9. Miao Zhang, Jing Liu, Muhammad Bilal, Chun Zhang, Feifei Zhao, Xiaoyan Xie, Khaled Mohamed Khedher. Optical and Physical Characteristics of the Lowest Aerosol Layers over the Yellow River Basin, 2019, Atmosphere, <https://doi.org/10.3390/atmos10100638>

10. Ebrahim M. Eid, Khaled Mohamed Khedher, Hamdi Ayed, Muhammad Arshad, Adel Moatamed, Abir Mouldi. Evaluation of carbon stock in the sediment of two mangrove species, *Avicennia marina* and *Rhizophora mucronata*, growing in the Farasan Islands, Saudi Arabia, 2020, Oceanologia, 62(2), 200-213, <https://doi.org/10.1016/j.oceano.2019.12.001>

11. Ebrahim M. Eid, Khaled M. Khedher, Hamdi Ayed, Muhammad Arshad, Abir Mouldi, Kamal H. Shaltout, Nasser A. Sewelam, Tarek M. Galal, Ahmed F. El-Bebany, and Ali M.A. Alshehri. Prediction models based on soil properties for evaluating the heavy metal uptake into *Hordeum vulgare* L. grown in agricultural soils amended with different rates of sewage sludge, 2020, International Journal of Environmental Health Research, <https://doi.org/10.1080/09603123.2020.1730771>

12. Ebrahim M. Eid, Kamal H. Shaltoutd , Yassin M. Al-Sodany, Soliman A. Haroun, Tarek M. Galale, Hamdi Ayed , Khaled M. Khedher, Kai Jensenb. Common reed (*Phragmites australis* (Cav.) Trin. ex Steudel) 2 as a candidate for predicting heavy metal contamination in Lake 3 Burullus, Egypt: A biomonitoring approach, 2020, Ecological Engineering, 148, <https://doi.org/10.1016/j.ecoleng.2020.105787>

13. SIVAKUMAR A and MAJED ALSUBIH. POST-ELASTIC DEFORMATION CHARACTERISTICS OF HYBRID FIBRE REINFORCED CONCRETE COMPOSITES, 2020, International Journal of Latin American Journal of Solids and Structures, <https://www.lajss.org/index.php/LAJSS/article/view/5851>

14. Chen, Sikai, Tariq Usman Saeed, Saeed Dhafer Alqadhi, and Samuel Labi. Safety impacts of pavement surface roughness at two-lane and multi-lane highways: accounting for heterogeneity and seemingly unrelated correlation across crash severities, 2019, Transportmetrica A: transport science, <https://www.tandfonline.com/doi/full/10.1080/23249935.2017.1378281>

15. Mohd. Ahmed , M. N. Qureshi, Javed Mallick, Mohd. Abul Hasan, Mahmoud Hussain. Decision Support Model for Design of High-Performance Concrete Mixtures Using Two-Phase AHP-TOPSIS Approach, 2019, Advances in Civil Engineering, <https://www.hindawi.com/journals/ace/2019/1696131/>

16. Mohd. Ahmed , M. N. Qureshi, Javed Mallick, Nabil Ben Kahla. Selection of Sustainable Supplementary Concrete Materials Using OSM-AHP-TOPSIS Approach, 2019, Advances in Materials Science and Engineering, <https://www.hindawi.com/journals/amse/2019/2850480>
17. Ghahari, SeyedAli, Bortioakor Nii Tsui Alabi, Majed Alinizzi, Saeed Alqadhi, Sikai Chen, and Samuel Labi. Examining Relationship between Infrastructure Investment and Performance Using State-Level Data, 2019, Journal of Infrastructure Systems, <https://ascelibrary.org/doi/full/10.1061/%28ASCE%29IS.1943-555X.0000505>
18. Ibrahim I. Falqi, Mohd Ahmed, Javed Mallick. Siliceous Concrete Materials Management for Sustainability Using Fuzzy-TOPSIS Approach, 2019, Applied Sciences, www.mdpi.com/journal/applsci
19. Mohd Ahmed, Mohamed hechmi El Ouni, Devinder Singh, Nabil Ben Kahla. A Parametric Study of Mesh Free Interpolation based recovery techniques in Finite Element Elastic Analysis, 2019, Computer Modeling in Engineering & Sciences, www.techscience.com/cmcs
20. Mohd Ahmed. A Comparative Study of Mesh Free Radial Point Interpolation Method and Moving Least Square Method Based Error Estimation in Elastic Finite Element Analysis, 2019, Arabian Journal of Science and Engineering, <https://doi.org/10.1007/s13369-019-04154-5>
21. Niaz B. Khan, Zainah B. Ibrahim, Mohammed Jameel, Muhammad Ijaz Khan. Numerical simulation of flow with large eddy simulation at $Re = 3900$: A study on the accuracy of statistical quantities, 2019, International Journal of Numerical Methods for Heat & Fluid Flow, <https://www.emerald.com/insight/content/doi/10.1108/HFF-11-2018-0619/full/html>
22. Muhammad Usman Hanif, Zainah Ibrahim, Mohammed Jameel, Khaled Ghaedi. Simulation-based non-linear vibration model for damage detection in RC beams, 2019, European Journal of Environmental and Civil Engineering, <https://www.tandfonline.com/doi/full/10.1080/19648189.2019.1578270>
23. Hooi-Bein Goh, Sai-Hin Lai, Mohammed Jameel, Hee-Min Teh. Potential of coastal headlands for tidal energy extraction and the resulting environmental effects along Negeri Sembilan coastlines: A numerical simulation study, 2020, Energy, <https://www.sciencedirect.com/science/article/pii/S0360544219323515>
24. Riaz Muhammad, M Ijaz Khan, Mohammed Jameel, Niaz B Khan. Fully developed Darcy-Forchheimer mixed convective flow over a curved surface with activation energy and entropy generation, 2020, Computer Methods and Programs in Biomedicine, <https://www.sciencedirect.com/science/article/pii/S0169260719316177?via%3Dihub>
25. Ram Karan Singh, Javed Mallick, PS Pawar. Performance Evaluation of Five Penman Forms of Models by Means of Lysimetric Evapotranspiration Under Water Stress

Environments at New Delhi, India, 2020, Advances in Water Resources Engineering and Management, https://link.springer.com/chapter/10.1007/978-981-13-8181-2_1

26. Saiful Islam, Rini Asnida Abdullah, Javed Mallick, Mohd Ahmed. Stability of slope along steep road in Abha, Asir Region, Kingdom of Saudi Arabia, 2019, Warta Geologi, <https://gsm.org.my/products/702001-101796-PDF.pdf>
27. Nabil Ben Kahla, Mohamed Hechmi El Ouni, Nizar Bel Hadj Ali, Roohul Abad Khan. Nonlinear Dynamic Response and Stability Analysis of a Tensegrity Bridge to Selected Cable Rupture, 2020, International Journal of Latin American Journal of Solids and Structures, Vol 17 (2): 1-19, <https://www.lajss.org/index.php/LAJSS/article/view/5907>
28. Saiful Islam, Rini Asnida Abdullah, Irfan Badruddin, Shamshuddin Shahid, Kashif Irshad, Javed Mallick, Majid Subuhi, M. Hechmi Elouni, Nabil Ben Kahla. CALIBRATION AND VALIDATION OF REFERENCE EVAPOTRANSPIRATION MODELS IN SEMI-ARID CONDITIONS, 2020, APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH, DOI:10.15666/aeer/1801_13611386
29. Ebrahim M. Eid, Kamal H. Shaltout, Yassin M. Al-Sodany, Soliman A. Haroun, Tarek M. Galal, Hamdi Ayed, Khaled M. Khedher & Kai Jensen. Seasonal potential of Phragmites australis in nutrient removal to eliminate the eutrophication in Lake Burullus, Egypt, 2020, Journal of Freshwater Ecology, <https://doi.org/10.1080/02705060.2020.1748129>
30. Vineeth Tirth, Ram Karan Singh, Saiful Islam, Irfan Badruddin, Rini Asnida Binita Abdullah, Ali ghahtani, Essam, Amir Arabi, Neeraj Kumar, Parul Gupta. Kharif Crops Selection for Sustainable Farming Practices in the Rajasthan-India Using Multiple Attribute-Based Decision-Making, 2020, Agronomy, <https://doi.org/10.3390/agronomy10040536>
31. Abir Mouldi, Hamdi Ayed, Mounir Kanzari, and Khaled M. Khedher. Numerical Study of the Dielectric Omnidirectional Visible Mirror, 2020, Progress In Electromagnetics Research M, Vol 91, 179–188, <http://www.jpier.org/PIERM/pierm91/18.20021302.pdf>
32. Ram Karan Singh and Javed Mallick. Fuzzy based multi-criteria method for sustainable green chamber farming practices, 2020, Indian Journal of Agricultural Sciences, Vol 10, 89 1732-1736, https://www.researchgate.net/publication/336871114_Fuzzy_based_multi-criteria_method_for_sustainable_green_chamber_farming_practices
33. Javed Mallick; Khan, R.A.; Ahmed, M.; Alqadhi, S.D.; Alsubih, M.; Falqi, I.; Hasan, M.A. Modeling Groundwater Potential Zone in a Semi-Arid Region of Aseer Using Fuzzy-AHP and Geoinformation Techniques, 2019, Water, 11 (12), <https://www.mdpi.com/2073-4441/11/12/2656>

34. Samah Elbarbary, Mohamed Abdel Zaher, Adam El-Shahat, Mohamed Al Deep and Khaled Mohamed Khedher. Hydrochemical and isotopic characteristics of thermal groundwater at Farafra Oasis, Western Desert, Egypt, 2020, *Geochemistry: Exploration, Environment, Analysis*, Vol 21 (1), <https://doi.org/10.1144/geochem2020-009>

35. Ahmed Ali Dajam and Javed Mallick. Impact of the Spatial Configuration of Streets Networks on Urban Growth: A Case Study of Abha City, Saudi Arabia, 2020, *Sustainability*, 12 (5), <https://www.mdpi.com/2071-1050/12/5/1856>

36. Javed Mallick, Mohd Ahmed, Saeed Dhafer Alqadhi, Ibrahim I. Falqi, Muneer Parayangat, Chander Kumar Singh, Atiqur Rahman and Thafasal Ijyas. Spatial stochastic model for predicting soil organic matter using remote sensing data, 2020, *Geocarto-International*, <https://doi.org/10.1080/10106049.2020.1720314>

37. Javed Mallick, Hoang Thi Hang, Atiqur Rahman, Mohd Abul Hasan, Mohd Ahmed. ASSESSING INTER-SEASONAL VARIATIONS OF VEGETATION COVER AND LAND SURFACE TEMPERATURE (LST) IN NCR USING MODIS DATA, 2020, *APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH*, <http://www.aloki.hu/>

38. Shadma Tasneem, Arshid Nabi, Nazim Hasan, Maqsood Ahmad Malik, Khaled Mohamed Khedher. Thermodynamic insights into molecular interactions of sodium lauryl sulfate (SLS) with caffeine and theophylline in aqueous media at different temperatures, 2020, *Journal of Molecular Liquids*, Vol 305, <https://doi.org/10.1016/j.molliq.2020.112776>

Book Chapter

1. Singh R.K., Mallick J., Pawar P.S. (2020) Performance Evaluation of Five Penman Forms of Models by Means of Lysimetric Evapotranspiration Under Water Stress Environments at New Delhi, India. In: AlKhaddar R., Singh R., Dutta S., Kumari M. (eds) *Advances in Water Resources Engineering and Management. Lecture Notes in Civil Engineering*, vol 39. Springer, Singapore. https://doi.org/10.1007/978-981-13-8181-2_1

2. Saleem M., Ram S., Mahmood G., Hasan M.A., Waseem M. (2020) Aquifer Modelling in Greater Noida Region (U.P) Using MODFLOW. In: Ahmed S., Abbas S., Zia H. (eds) *Smart Cities—Opportunities and Challenges. Lecture Notes in Civil Engineering*, vol 58. Springer, Singapore. https://doi.org/10.1007/978-981-15-2545-2_61

Conference Publications

1. Roohul Abad Khan, Nadeem Ahmed Khan. (2019). Fluidized Aerobic Batch Bio-Reactor and Sequencing Batch Reactor Performance Evaluation For Hospital Wastewater Treatment. International conference on Civil, and Environmental, Geology and Mining ENgineering. Turkey, 20-22 April 2019.
2. Roohul Abad Khan, AMadur Rahman Khan. (2020). Saltwater a viable source of Energy for Sustainable RuralDevelopment. 16th International conference on Environmental Science and Technology. Greece, 4-7 September 2019.
3. Roohul Abad Khan, AMadur Rahman Khan. (2019). Microbial Concrete: A step towards mitigating the climate change and global warming at micro level. 16th International conference on Environmental Science and Technology. Greece, 4-7 September 2020.
4. Sivakumar Anandan, Roohul Abad Khan. (2019). Sustainable Performance Characteristics of Glued Steel Fibres in different grades of Concrete. Internaitonal Conference on Challenges in Developing Sustainable Infrastructures. Kuwait, 23-25 April 2019.
5. Zaidi M, Bouazzi I, Usman M, Shamim M.Z , El Ouni M.H. (2019). Energy Efficiency mechanism for Wireless Sensor Networks. The 14th Annual Research day, College of Engineering, King Khalid University. KSA, 4thApril 2019.
6. Mohamed Hechmi EL Ouni, Nabil Ben Kahla, Attig Miniar, Saiful Islam. (2019). Dynamic Stability Analysis of a Tower Crane. The International Conference on Advances in Mechanical Engineering and Mechanics (TSS ICAMEM2019). Tunisia, 16-18 December 2019.
7. Ahmed M., EL Ouni M. H., Ben Kahla N.. (2020). Comparative study of Stress and displacement Recovery Mesh Free Post-processing Technique. International Conference of Engineering Mechanics Institute (EMI2020-IC), 2020, JC Durban. UK, 6-9 Apr, 2020.
8. Ahmed M., Javed Mallick, M Abul Hasan. (2020). Fuzzy TOPSIS Approach based Decision Support Model to preferred concrete mix Design for extreme environmen. 8th International Conference on Fusion of Science & technology (ISFT 2020), 2020, JC Bose University. India, Jan 5-9, 2020.

9. Roohul ABad Khan. (2020). Development of Sustainable Soft FLooring Material to reduce Fall Injuries. The Eighth International Congress Design and Modelling of Mechanical Systems. Tunisia, March 18-20.
10. Roohul Abad Khan. (2019). Outdoor Air Pollution and Health Security, Mohammedia Prefecture: Morocco. Second Euro-Mediterranean Conference . Tunisia, 13-16 October, 2019.
11. Roohul Abad Khan. (2019). Effects of Outdoor Air Pollution on Human Health in Kenitra, Morocco . Second Conference of Arabian Journal of Geosciences. Tunisia, 25-28 November, 2019.
12. Roohul Abad Khan, Nadeem Ahmed Khan. (2019). Comparative study of treatment and performance in membrane bioreactor and sequencing batch reactor for hospital wastewater in smart cities. International Conference on SMART CITIES: Opportunities & Challenges. India, March 14-16, 2019.
13. Javed Mallick. (2020). INTER-SEASONAL VARIATIONS OF SURFACE TEMPERATURE AND VEGETATION COVER USING THERMAL REMOTE SENSING DATA. 8th International Symposium on Fusion of Science and Technology (ISFT-2020). India, Jan 5-9, 2020.
14. M A Hasan, J Mallick, M Ahmed, M Saleem. (2020). Hazardous Wastes and its Impact on Human Health. 8th International Symposium on Fusion of Science and Technology (ISFT-2020). India, Jan 6-10, 2020.