

King Khalid University
College of Engineering/Civil Engineering Department

Publication Details 2020-2021

Refereed Journal Publications

1. **Mohd Abul Hasan (2021)** Performance of Water Supply lines in Post-Earthquake Scenario, Polish Journal of Environmental Studies, [Impact factor \(ISI Web of Science\) 1.383 \(Accepted\)](#)
2. Khan, M.A.; Imam, M.K.; Irshad, K.; Ali, H.M.; **Hasan, M.A.**; Islam, S. (2021) Comparative Overview of the Performance of Cementitious and Non-Cementitious Nanomaterials in Mortar at Normal and Elevated Temperatures. Nanomaterials 2021, 11, 911. https://doi.org/10.3390/nano_11040911 [Impact factor \(ISI Web of Science\) 4.324](#)
3. Saleem, M.; Irshad, K.; Ur Rehman, S.; Javed, M.S.; **Hasan, M.A.**; Ali, H.M.; Ali, A.; Malik, M.Z.; Islam, S. (2021) Characteristics and Photovoltaic Applications of Au-Doped ZnO–Sm Nanoparticle Films. Nanomaterials 11, 702. <https://doi.org/10.3390/nano11030702> [Impact factor \(ISI Web of Science\) 4.324](#)
4. **Mohd Abul Hasan**; Shamsad Ahmad; and Tariq Mohammed (2021) Groundwater Contamination by Hazardous Wastes: A Review, Arabian Journal for Science and Engineering, Springer.
 - a. <https://doi.org/10.1007/s13369-021-05452-7> [Impact factor \(ISI Web of Science\) 1.711](#)
5. Khan, M.; Khan, A.U.; **Hasan, M.A.**; Yadav, K.K.; Pinto, M.M.C.; Malik, N.; Yadav, V.K.; Khan, A.H.; Islam, S.; Sharma, G.K. (2021) Agro-Nanotechnology an Emerging Field: A Novel Sustainable Approach for Improving the Plant Growth by Reducing Biotic Stress. **Applied Sciences** 2021, 11, 2282. <https://doi.org/10.3390/app11052282> [Impact factor \(ISI Web of Science\) 2.474](#)

6. Muhammad, A.; Siddique, A.; Naveed, Q.N.; Khaliq, U.; Aseere, A.M.; **Hasan, M.A.**; Qureshi, M.R.N.; Shehzad, B. (2021) Evaluating Usability of Academic Websites through a Fuzzy Analytical Hierarchical Process, **Sustainability**, 13, 2040. <https://doi.org/10.3390/su13042040> Impact factor (ISI Web of Science) 2.576
7. Khan, A. H., Aziz, H. A., Khan, N. A., **Hasan, M. A.** Ahmed, S., Farooqi, I., H., Dhingra, A., Vambol, V., Changani, F., Yousefi, M., Islam, S., Mozaffari, N., Mahtab, M. S., (2021) Impact, disease outbreak and the eco-hazards associated with pharmaceutical residues: A Critical review, **International Journal of Environmental Science and Technology**, <https://doi.org/10.1007/s13762-021-03158-9> Impact factor (ISI Web of Science) 2.540
8. Abdul Hafeez Muhammad, Ansar Siddique, Quadri Noorulhasan Naveed, Usman Saleem, **Mohd Abul Hasan** and Basit Shahzad (2021) Investigating Crucial Factors of Agile Software Development Through Composite Approach, **Journal of Intelligent Automation & Soft Computing-Tech Science Press**, <https://doi.org/10.32604/iasc.2021.014427>, Impact factor (ISI Web of Science) 1.276
9. Imran Ali, **Mohd Abul Hasan** & Omar M. L. Alharbi (2020) Toxic metal ions contamination in the groundwater, Kingdom of Saudi Arabia, **Journal of Taibah University for Science**, 14:1, 1571-1579, <https://doi.org/10.1080/16583655.2020.1847807>, Impact factor (ISI Web of Science) 1.863
10. Muhammad Mobin Siddiqi; Muhammad Nihal Naseer; Yasmin Abdul Wahab; Nor Aliya Hamizi; Irfan Anjum Badruddin; **Mohd Abul Hasan**; Zaira Zaman Chowdhury; Omid Akbarzadeh; Mohd Rafie Johan; Sarfaraz Kamangar (2020) Exploring E-Waste Resources Recovery in Household Solid Waste Recycling Processes, **MDPI**. 8, 1047; [doi:10.3390/pr8091047](https://doi.org/10.3390/pr8091047) Impact factor (ISI Web of Science) 2.753

11. Mallick J, Hang HT, Rahman A, **Hasan MA**, Falqi I, Ahmed M (2020) Inter-Seasonal Variations of Vegetation Cover and Land Surface Temperature Distribution in NCR using MODIS Data **Applied Ecology and Environmental Research**. [Impact factor \(ISI Web of Science\) 0.712](#)
12. Sivakumar Anandan, Majed Alsubih (2020), Post-elastic Deformation Characteristics of Hybrid Fibre Reinforced Concrete Composites, *Latin American Journal of Solids & Structures*. vol.17 no.1. pp.1-20.
13. Sivakumar Anandan, Majed Alsubih (2021) Mechanical Strength Characterization of Plastic Fibre Reinforced Cement Concrete Composites, *Applied Sciences*. **2021**, *11*(2), 852.
14. AlSubih, M.; Mallick, J. et al. An investigation of the short-term meteorological drought variability over Asir Region of Saudi Arabia, *Theoretical and Applied Climatology*, 2021 (Accepted in Press)
15. Mallick, J. Evaluation of Seasonal Characteristics of Land Surface Temperature with NDVI and Population Density. *Polish J. Environ. Stud.* **2021**, *30*, 1–18.
16. Mallick, J.; Singh, C.K.; AlMesfer, M.K.; Singh, V.P.; Alsubih, M. Groundwater Quality Studies in the Kingdom of Saudi Arabia: Prevalent Research and Management Dimensions. *Water* **2021**, *13*, 1266.
17. Mallick, J.; AlMesfer, M.K.; Singh, V.P.; Falqi, I.I.; Singh, C.K.; Alsubih, M.; Kahla, N. Ben Evaluating the NDVI–Rainfall Relationship in Bisha Watershed, Saudi Arabia Using Non-Stationary Modeling Technique. *Atmosphere (Basel)*. **2021**, *12*, 593.
18. AlSubih, M.; Kumari, M.; Mallick, J.; Ramakrishnan, R.; Islam, S.; Singh, C.K. Time series trend analysis of rainfall in last five decades and its quantification in Aseer Region of Saudi Arabia. *Arab. J. Geosci.* **2021**, *14*, 519.
19. Singh, C.K.; Kumar, A.; Shashtri, S.; Kumar, A.; Mallick, J.; Singh, A.; Avtar, R.; Singh, R.P.; Kumar, P.; Ranjan, S. Geochemical modeling to infer genetic origin of groundwater and associated health risks in desertic aquifers. *Groundw. Sustain. Dev.* **2021**, *13*, 100569.
20. Talukdar, S.; Eibek, K.U.; Akhter, S.; Ziaul, S.; Towfiqul Islam, A.R.M.; Mallick, J. Modeling fragmentation probability of land-use and land-cover using the bagging,

random forest and random subspace in the Teesta River Basin, Bangladesh. *Ecol. Indic.* **2021**, *126*, 107612.

21. Mallick, J.; Kumar, A.; Almesfer, M. K.; Alsubih, M.; Singh, C. K.; Ahmed, M.; Khan, R. A. (2021). An Index-Based Approach to Assess Groundwater Quality for Drinking and Irrigation in Asir Region of Saudi Arabia. *Arab. J. Geosci.* <https://doi.org/10.1007/s12517-021-06506-8> (Impact factor (ISI Web of Science) **1.387**)
22. Mallick, J.; Talukdar, S.; Alsubhi, M.; Ahmed, M.; Islam, A. R. M. T.; Shahfahad; Nguyen, V. T. (2021). Proposing Receiver Operating Characteristic-Based Sensitivity Analysis with Introducing Swarm Optimized Ensemble Learning Algorithms for Groundwater Potentiality Modelling in Asir Region, Saudi Arabia. *Geocarto Int.* <https://doi.org/10.1080/10106049.2021.1878291>. (Impact factor (ISI Web of Science) **3.78**)
23. Mallick, J. (2021). Municipal Solid Waste Landfill Site Selection Based on Fuzzy-AHP and Geoinformation Techniques in Asir Region Saudi Arabia. *Sustainability* <https://doi.org/10.3390/su13031538>. (Impact factor (ISI Web of Science) **2.54**)
24. Mallick, J.; Alqadhi, S.; Talukdar, S.; Alsubih, M.; Ahmed, M.; Khan, R. A.; Kahla, N. Ben; Abutayeh, S. M. (2021). Risk Assessment of Resources Exposed to Rainfall Induced Landslide with the Development of GIS and RS Based Ensemble Metaheuristic Machine Learning Algorithms. *Sustain.* <https://doi.org/10.3390/su13020457>. (Impact factor (ISI Web of Science) **2.54**)
25. Mallick, J.; Talukdar, S.; Alsubih, M.; Salam, R.; Ahmed, M.; Kahla, N. Ben; Shamimuzzaman, M. (2021). Analysing the Trend of Rainfall in Asir Region of Saudi Arabia Using the Family of Mann-Kendall Tests, Innovative Trend Analysis, and Detrended Fluctuation Analysis. *Theor. Appl. Climatol.* <https://doi.org/10.1007/s00704-020-03448-1>. (Impact factor (ISI Web of Science) **2.397**)
26. Mallick, J.; Bindajam, A. A.; AlQadhi, S.; Ahmed, M.; Hang, H. T.; Thanh, N. V. (2020). A Comparison of Four Land Surface Temperature Retrieval Method Using TERRA-ASTER Satellite Images in the Semi-Arid Region of Saudi Arabia. *Geocarto Int.* <https://doi.org/10.1080/10106049.2020.1790675>. (Impact factor (ISI Web of Science) **3.87**)

27. Mallick, J.; Hang, T. H.; Rahman, A.; Hasan, M. A.; Ibrahim, F.; Ahmed, M. (2020). Assessing Inter-Seasonal Variations of Vegetation Cover and Land Surface Temperature in the NCR Using MODIS Data. *Appl. Ecol. Environ. Res.* https://doi.org/10.15666/aeer/1803_42414258. (Impact factor (ISI Web of Science) 0.78
28. Ahmed, M.; Mallick, J.; Alqadhi, S.; Ben Kahla, N. (2020). Development of Concrete Mixture Design Process Using MCDM Approach for Sustainable Concrete Quality Management. *Sustain.* <https://doi.org/10.3390/su12198110>. (Impact factor (ISI Web of Science) 2.54
29. Ahmed, M.; Al Qadhi, S.; Mallick, J.; Desmukh, M. N.; Hang, H. T. (2020). Advances in Projectile Penetration Mechanism in Soil Media. *Applied Sciences (Switzerland)*. <https://doi.org/10.3390/app10196810>. (Impact factor (ISI Web of Science) 2.474
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31. Bindajam, A.A.; Mallick, J.; AlQadhi, S.; Singh, C.K.; Hang, H.T. (2020). Impacts of Vegetation and Topography on Land Surface Temperature Variability over the Semi-Arid Mountain Cities of Saudi Arabia. *Atmosphere*, 11, 762. (Impact factor (ISI Web of Science) 2.397
32. Mallick, J.; Bindajam, A.A.; AlQadhi, S.; Ahmed, M.; Hang, H.T.; Thanh, N.V. (2020) A comparison of four land surface temperature retrieval method using TERRA-ASTER satellite images in the semi-arid region of Saudi Arabia. *Geocarto Int.* ((Impact factor (ISI): 3.789) <https://doi.org/10.1080/10106049.2020.1790675>
33. Mohd. Ahmed , Mallick, J., AlQadhi, S., & Ben Kahla, N. (2020). Development of Concrete Mixture Design Process Using MCDM Approach for Sustainable Concrete Quality Management. *Sustainability*, 12(19), 8110. doi:10.3390/su12198110
34. Mohd. Ahmed, AlQadhi, S., Mallick, J., Desmukh, M. N., Hang, H. T. (2020). Advances in Projectile Penetration Mechanism in Soil Media. *Applied Sciences*, 10(19), 6810. doi:10.3390/app10196810

35. **Mohd. Ahmed (2021)** Mesh Independent Displacement Recovery Techniques In Elastic Finite Element Solutions (*Transaction of Femena*) -In Press
36. Mohamed Hechmi El Ouni, Nabil Ben Kahla, Saiful Islam, Mohammad Jameel, (2021). “A Smart Tower Crane to Mitigate Turbulent Wind Loads”. *Structural Engineering International*. <https://doi.org/10.1080/10168664.2019.1668334>
37. M Arshad, KM Khedher, **H Ayed**, A Mouldi, FS Moghanm,MH El OuniEffects of land use and cultivation histories on the distribution of soil organic carbon stocks in the area of the Northern Nile Delta in Egypt *Carbon Management* 11 (4), 341-354
38. Ebrahim M. Eid, Kamal H. Shaltout, Yassin M. Al-Sodany, Soliman A. Haroun, Tarek M. Galal, **Hamdi Ayed**, Khaled M. Khedher and Kai Jensen, “Common reed (*Phragmites australis* (Cav.) Trin. ex Steudel) as a candidate for predicting heavy metal contamination in Lake Burullus, Egypt: A biomonitoring approach”, *Ecological Engineering* 148, 2020.
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42. Abir Mouldi, **Hamdi Ayed**, Mounir Kanzari, and Khaled M. Khedher, “Numerical Study of the Dielectric Omnidirectional Visible Mirror”, *Progress In Electromagnetics Research M*, Vol. 91, 179–188, 2020
43. Muhammad Arshad , Khaled Mohamed Khedher , **Hamdi Ayed** , Abir Mouldi Farahat S. Moghanm , Mohamed Hechemi El Ouni , Nabil Benkahla , Essaied Laatar ,

- Muhammad Bilal & Mohamed Abdel Zaher, “Effects of land use and cultivation histories on the distribution of soil organic carbon stocks in the area of the Northern Nile Delta in Egypt”, *Carbon Management*, 2020, DOI: 10.1080/17583004.2020.1790241
44. 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”, *Advances in Concrete Construction, An International Journal*, 2020, <http://dx.doi.org/10.12989/acc.2020.10.2.141>
45. 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”, *Steel and Composite Structures, An International Journal*, 2020, <https://doi.org/10.12989/scs.2020.36.5.603>
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50. Investigation of Geology and Hydro-geophysical Features Using Electromagnetic and Vertical Sounding Methods for Abu Zabad Area, Western Kordofan State, Sudan.
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51. 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; Simone Lolli, "Characteristics of Fine Particulate Matter (PM_{2.5}) over urban, Suburban, and Rural Areas of Hong Kong, ISI Journal; Impact Factor: 2.046; Atmosphere, MDPI <https://doi.org/10.3390/atmos10090496>
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58. Syed Nadeem Abbas Shah; Syed Shahabuddin; Mohd Faizul Mohd Sabri; Mohd Faiz Mohd Salleh; Suhana Mohd Said; Khaled Mohamed Khedher; and Nanthini Sridewi, "Two-Dimensional Tungsten Disulfide-Based Ethylene Glycol Nanofluids: Stability, Thermal Conductivity, and Rheological Properties", ISI Journal; Impact Factor: 4.324; Nanomaterials-MDPI Journal, Switzerland. <https://doi.org/10.3390/nano10071340>
59. Mohamed Gad; Salah Elsayed; Farahat S. Moghanm; Mohammed H. Almarshadi; Abdullah S. Alshammari; Khaled M. Khedher; Ebrahim M. Eid; and Hend Hussein, "Combining Water Quality Indices and Multivariate Modeling to Assess Surface Water Quality in the Northern Nile Delta, Egypt", ISI Journal; Impact Factor: 2.544; Water-MDPI Journal, Switzerland. <https://doi.org/10.3390/w12082142>
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Book Chapter

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Conference Publications

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4. Mrabet E., El Ouni M H, Ben Kahla N; Passive control of Tensegrity Domes using Tuned Mass Dampers, a reliability approach. The Third International Conference on Acoustics and Vibration March 15-16, 2021, Online - Sfax – Tunisia
5. El Ouni M H, Bel Hadj Ali N, Ben Kahla N, Miniar A, Khedher K, A smart deployable tensegrity pedestrian bridge to mitigate vibrations’ Engineering Mechanics Institute of ASCE, Durham, UK, March 22 – 24, 2021
6. El Ouni M H, Structural design of a house. How to build your house, KKU, Abha, KSA, 17 to 22 April 2021.
7. Mohammad Ismail, Yasser Alashker, Khalid Elhadi ",Evaluation of Seismic Performance of 6 Stories RC Buildings in ABHA City ,KSA by Using Pushover Analysis Method". The 4th International Online Conference on Recent Advancements in interdisciplinary Research (ICRAIR) ,8- 9 May ,2020,City University,Malaysia

Patents

1. Development of real time traffic control system using digital image processing

2. An artificial intelligence and internet of thing based automated system for animal health care
3. An artificial intelligence and internet of thing based covid19 early warning system for senior citizens
4. An artificial intelligence based automatic cleanliness system for physically handicapped person
5. Patent Published,” A Novel Wind Powered IoT based Sustainable Organic Compost Machine,” Publication Date: 12/06/2020, Application Number: 202031022084
6. A Novel Wind Powered IoT based Sustainable Organic Compost Machine

Projects:

1. KSA International Collaboration Grant, Ministry of Education, KSA (1.6 million SAR)
Title: The Use of Modeling, Monitoring and Smart Technologies for Sustainable Watershed Management in Bisha Watershed, Aseer Province, Saudi Arabia, 3 years duration (On going).
2. Deanship of Scientific and Research, King Khalid University, Abha, K S A (150000 SAR) Project award No: RGP.2/85/41 (Completed)
Title: Waste Management – Ground Water Pollution, One year Duration working as PI
3. Deanship of Scientific and Research, King Khalid University, Abha, K S A (100000 SAR) Project award No: RGP.1/174/42 (On going)
Title: Sustainable Management of Urban Waste, Energy & Water, One year duration working as PI
4. Deanship of Scientific and Research, King Khalid University, Abha, K S A (150000 SAR) (On going)
Title: [Environmental research and resource management](#), One year duration working as PI
5. Deanship of Scientific and Research, King Khalid University, Abha, K S A (150000 SAR) (On going) Title: [Urban Environment Research](#), One year duration working as PI

6. Deanship of Scientific and Research, King Khalid University, Abha, K S A (100000 SAR) (On going) Title: [Groundwater and Environmental Assessment](#), One year duration working as PI
7. Deanship of Scientific and Research, King Khalid University, Abha, K S A (100000 SAR) (On going) Title: [Materials and Structures Performance: Solid and Structures](#), One year duration working as PI
8. Deanship of Scientific and Research, King Khalid University, Abha, K S A (25000 SAR) (On going) Title: [Finite Element Simulation of Projectile Impact on the Geological Shield](#), One year duration working as PI
9. Deanship of Scientific and Research, King Khalid University, Abha, K S A (180000 SAR) (On going) Title: [Water Resources Management and Hydrological Modelling in Aseer Province, Saudi Arabia](#), One year duration working as PI
10. Deanship of Scientific and Research, King Khalid University, Abha, K S A (190000 SAR) (On going) Title: Urban Growth, Land Cover, Land Use Changes, Groundwater and Water Harvesting using New Technologies (Remote Sensing, GIS, GPS, Laser Scanning) in Saudi Arabia, One year duration working as PI
11. Deanship of Scientific and Research, King Khalid University, Abha, K S A (190000 SAR) (On going) Title: التقنيات الحديثة في البناء طبقا للهندسة المدنية والهندسة الجيوتقنية والطرق الرقمية والمخبرية لتطويرها ومراقبتها, One year duration working as PI
12. Deanship of Scientific and Research, King Khalid University, Abha, K S A (190000 SAR) (On going) Title: Urban Growth, Land Cover, Land Use Changes, Groundwater and Water Harvesting using New Technologies (Remote Sensing, GIS, GPS, Laser Scanning) in Saudi Arabia, One year duration working as PI
13. Deanship of Scientific and Research, King Khalid University, Abha, K S A (25000 SAR) (On going) Title: Second and 3D Digital Modeling, Remote sensing geographic information systems based on rockfall risk maps in the southern region of Saudi Arabia: Aseer region case study, One year duration working as PI
14. Deanship of Scientific and Research, King Khalid University, Abha, K S A (60000 SAR) (On going) Title: Smart Structures, One year duration working as PI
15. Deanship of Scientific and Research, King Khalid University, Abha, K S A (150000 SAR) (On going) Title: [Analysis and protection of structures under natural hazards](#), One year duration working as PI

16. Deanship of Scientific and Research, King Khalid University, Abha, K S A (150000 SAR) (On going) Title: **التقنيات الحديثة في البناء طبقا للهندسة المدنية والهندسة الجيوتقنية والطرق الرقمية والمخبرية لتطويرها ومراقبتها**, One year duration working as PI
17. Research Group (Funded),” **Hospital wastewater Treatment using Constructed Wetlands for Urban Greenery,**” Deanship of Scientific Research, King Khalid University, Abha Saudi Arabia Budget (150,000 SAR) January 2021
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