

REFERENCES

- Abdul Talib, S. A., Idris, W. M. R., Neng, L. J., Lihan, T., & Abdul Rasid, M. Z. (2024). Irregularity and time series trend analysis of rainfall in Johor, Malaysia. *Heliyon*, 10(9). <https://doi.org/10.1016/j.heliyon.2024.e30324>
- Abduljaleel, Y., Salem, A., ul Haq, F., Awad, A., & Amiri, M. (2023). Improving detention ponds for effective stormwater management and water quality enhancement under future climate change: a simulation study using the PCSWMM model. *Scientific Reports*, 13(1). <https://doi.org/10.1038/s41598-023-32556-x>
- Al-Dughairi, A. A. (2024). Runoff hydrographs using Snyder and SCS synthetic unit hydrograph methods: A case study of ungauged watersheds of Imam Turki Bin Abdullah Royal Nature Reserve (ITBA) - Saudi Arabia., 7(3), 79–94. <https://doi.org/10.26389/ajsrp.d140523>
- Amin, I. M. Z. bin M., Ercan, A., Ishida, K., Kavvas, M. L., Chen, Z. Q., & Jang, S. H. (2019). Impacts of climate change on the hydro-climate of peninsular Malaysia. *Water (Switzerland)*, 11(9). <https://doi.org/10.3390/w11091798>
- Branch, Z., Nader, S., & Kassim, A. (2017). Land use Changes Impact on extreme flood events in the Hulu Kelang River Basin, Malaysia Journal of Geotechnical Geology. In *Journal of Geotechnical Geology* (Vol. 13, Issue 1).
- Budhathoki, B. R., Adhikari, T. R., Shu, L., Shrestha, S., Awasthi, R. P., Dawadi, B., Baniya, B., & Dhital, Y. P. (2024). Evaluation of distributed and semi-distributed hydrological models in complex River Basin system, Nepal. *HydroResearch*, 8, 49–57. <https://doi.org/10.1016/j.hydres.2024.09.006>
- Chitrakar, P., Sana, A., & Hamood Nasser Almalki, S. (2023). Regional distribution of intensity–duration–frequency (IDF) relationships in Sultanate of Oman. *Journal of King Saud University - Science*, 35(7). <https://doi.org/10.1016/j.jksus.2023.102804>
- Doost, Z. H., Alsuwaiyan, M., & Yaseen, Z. M. (2024). Runoff Management based Water Harvesting for Better Water Resources Sustainability: A Comprehensive Review. *Knowledge-Based Engineering and Sciences*, 5(1), 1–45. <https://doi.org/10.51526/kbes.2024.5.1.1-45>

- Duffy, C. J. (2017). The terrestrial hydrologic cycle: an historical sense of balance. *Wiley Interdisciplinary Reviews: Water*, 4(4). <https://doi.org/10.1002/WAT2.1216>
- Farina, A., Di Nardo, A., Gargano, R., van der Werf, J. A., & Greco, R. (2023). A simplified approach for the hydrological simulation of urban drainage systems with SWMM. *Journal of Hydrology*, 623. <https://doi.org/10.1016/j.jhydrol.2023.129757>
- Fung, K. F., Chew, K. S., Huang, Y. F., Ahmed, A. N., Teo, F. Y., Ng, J. L., & Elshafie, A. (2022). Evaluation of spatial interpolation methods and spatiotemporal modeling of rainfall distribution in Peninsular Malaysia. *Ain Shams Engineering Journal*, 13(2). <https://doi.org/10.1016/j.asej.2021.09.001>
- Gu, L., Chen, J., Yin, J., Xu, C. Y., & Zhou, J. (2020). Responses of Precipitation and Runoff to Climate Warming and Implications for Future Drought Changes in China. *Earth's Future*, 8(10). <https://doi.org/10.1029/2020EF001718>
- Gumindoga, W., Rwasoka, D. T., Nhapi, I., & Dube, T. (2017). Ungauged runoff simulation in Upper Manyame Catchment, Zimbabwe: Application of the HEC-HMS model. *Physics and Chemistry of the Earth*, 100, 371–382. <https://doi.org/10.1016/j.pce.2016.05.002>
- Hlustik, P. (2017). Practical assessment of the SWMM programme. *IOP Conference Series: Earth and Environmental Science*, 92(1). <https://doi.org/10.1088/1755-1315/92/1/012018>
- Igarashi, K., Koichiro, K., Tanaka, N., & Aranyabhaga, N. (2019). Prediction of the Impact of Climate Change and Land Use Change on Flood Discharge in the Song Khwae District, Nan Province, Thailand. *Journal of Climate Change*, 5(1), 1–8. <https://doi.org/10.3233/jcc190001>
- Ismail, W. R., & Haghroosta, T. (2018). Extreme weather and floods in Kelantan state, Malaysia in December 2014. *Research in Marine Sciences*, 3(1), 231–244.
- Jabbar, L. A., Khalil, I. A., & Sidek, L. M. (2021). HEC-HMS HYDROLOGICAL MODELLING FOR RUNOFF ESTIMATION IN CAMERON HIGHLANDS, MALAYSIA. *INTERNATIONAL JOURNAL OF CIVIL ENGINEERING AND TECHNOLOGY (IJCET)*, 12(9). <https://doi.org/10.34218/ijciet.12.9.2021.004>

- Janjić, J., & Tadić, L. (2023). Fields of Application of SWAT Hydrological Model—A Review. In *Earth (Switzerland)* (Vol. 4, Issue 2, pp. 331–344). MDPI. <https://doi.org/10.3390/earth4020018>
- Kamarudin, M. K. A., Toriman, M. E., Abd Wahab, N., Abu Samah, M. A., Abdul Maulud, K. N., Mohamad Hamzah, F., Mohd Saudi, A. S., & Sunardi, S. (2023). Hydrological and climate impacts on river characteristics of pahang river basin, Malaysia. *Heliyon*, 9(11). <https://doi.org/10.1016/j.heliyon.2023.e21573>
- Kuok, K. K., Chiu, P. C., Rahman, Md. R., Said, K. A. bin M., & Chin, M. Y. (2023). Evaluation of total infiltration and storage capacities for different soil types in Sarawak using SWMM. *Discover Water*, 3(1). <https://doi.org/10.1007/s43832-023-00042-0>
- Liu, B., Yang, J., Sha, J., Luo, Y., Zhao, X., & Liu, R. (2023). Analysis of Runoff According to Land-Use Change in the Upper Hutuo River Basin. *Water (Switzerland)*, 15(6). <https://doi.org/10.3390/w15061138>
- Londhe, A. D., Gavhane, A. T., & Nikam, S. S. (2021). Prediction of Runoff in Ungauged Basin using Snyder method. In *IJSRD-International Journal for Scientific Research & Development* (Vol. 9). www.ijssrd.com
- Ma, L., He, C., Bian, H., & Sheng, L. (2016). MIKE SHE modeling of ecohydrological processes: Merits, applications, and challenges. *Ecological Engineering*, 96, 137–149. <https://doi.org/10.1016/j.ecoleng.2016.01.008>
- Nasidi, N. M., Wayayok, A., Abdullah, A. F., & Mohd Kassim, M. S. (2021). Dynamics of potential precipitation under climate change scenarios at Cameron highlands, Malaysia. *SN Applied Sciences*, 3(3). <https://doi.org/10.1007/s42452-021-04332-x>
- Nujhat, M., Rayhan, Md., & Amin, Md. K. (2024). *Hydrological Modelling and Its Implication in Sustainable Water Resource Management in Gumti River Basin in Bangladesh*. <https://doi.org/10.20944/preprints202408.1326.v1>
- Nurhamidah, N., Andari, R., Junaidi, A., & Daoed, D. (2023). *INTERNATIONAL JOURNAL ON INFORMATICS VISUALIZATION journal homepage : www.joiv.org/index.php/joiv INTERNATIONAL JOURNAL ON INFORMATICS VISUALIZATION Evaluation of the Compatibility of TRMM Satellite Data with Precipitation Observation Data*. <https://giovanni.gsfc.nasa.gov/>.

- Ochoa-Tocachi, B. F., Cuadros-Adriazola, J., Arapa, E., Aste, N., Ochoa-Tocachi, E., Bonnesoeur, V., Lalonde-Le Pajolec, R. M., Alarcón, V., Drenkhan, F., Román, F., Buytaert, W., Gammie, G., Domínguez, J., & José Vásquez, J. (2022). *Mediation: Mercy Sandoval 4 | Guisella Infantes 4 | Gabriel Rojas 4*.
- Ojha, C. S. P. ., Berndtsson, Ronny., & Bhunya, P. . (2008). *Engineering hydrology*. Oxford University Press.
- Olufemi Babaremu, K., Taiwo, O., & Ajayi, D. (n.d.). *Impacts of Land Use and Land Cover Changes on Hydrological Response: A Review of Current Understanding and Implications for Watershed and Water Resources Management*. <https://doi.org/10.5281/zenodo.10049652#89>
- PJ, J. (2018). Evaluation of the conceptual basis of the rational method. *International Journal of Hydrology*, 2(6). <https://doi.org/10.15406/ijh.2018.02.00145>
- Rujner, H., Leonhardt, G., Marsalek, J., & Viklander, M. (2018). High-resolution modelling of the grass swale response to runoff inflows with Mike SHE. *Journal of Hydrology*, 562, 411–422. <https://doi.org/10.1016/j.jhydrol.2018.05.024>
- Saidin, E. (n.d.). *A STUDY OF RAINWATER HARVESTING SYSTEMS INSTALLATIONS AT THREE RESIDENTIAL HOUSES IN MALAYSIA*.
- Satheeskumar, S., Venkateswaran, S., & Kannan, R. (2017). Rainfall–runoff estimation using SCS–CN and GIS approach in the Pappiredipatti watershed of the Vaniyar sub basin, South India. *Modeling Earth Systems and Environment*, 3(1). <https://doi.org/10.1007/s40808-017-0301-4>
- Shafique, M., Kim, R., & Kyung-Ho, K. (2018). Rainfall runoffmitigation by retrofitted permeable pavement in an urban area. *Sustainability (Switzerland)*, 10(4). <https://doi.org/10.3390/su10041231>
- Shyam, G. M., Taloor, A. K., Sudhanshu, Singh, S. K., & Kanga, S. (2021). Sustainable water management using rainfall-runoff modeling: A geospatial approach. *Groundwater for Sustainable Development*, 15. <https://doi.org/10.1016/j.gsd.2021.100676>
- Simelane, M. P. Z., Soundy, P., & Maboko, M. M. (2024). Effects of Rainfall Intensity and Slope on Infiltration Rate, Soil Losses, Runoff and Nitrogen Leaching from Different

- Nitrogen Sources with a Rainfall Simulator. *Sustainability (Switzerland)* , 16(11). <https://doi.org/10.3390/su16114477>
- Singh, N. K., Emanuel, R. E., McGlynn, B. L., & Miniat, C. F. (2021). Soil Moisture Responses to Rainfall: Implications for Runoff Generation. *Water Resources Research*, 57(9). <https://doi.org/10.1029/2020WR028827>
- Sunaryo, Nola, Y. D., Istijono, B., & Junaidi. (2019). Analysis of water balance on Lake Maninjau, West Sumatera. *IOP Conference Series: Materials Science and Engineering*, 602(1). <https://doi.org/10.1088/1757-899X/602/1/012107>
- Tavares Wahren, F., Julich, S., Nunes, J. P., Gonzalez-Pelayo, O., Hawtree, D., Feger, K. H., & Keizer, J. J. (2016). Combining digital soil mapping and hydrological modeling in a data scarce watershed in north-central Portugal. *Geoderma*, 264, 350–362. <https://doi.org/10.1016/j.geoderma.2015.08.023>
- Tiwari, D. K., Kumar, V., Goyal, A., Khedher, K. M., & Salem, M. A. (2024). Comparative analysis of data driven rainfall-runoff models in the Kolar river basin. *Results in Engineering*, 23. <https://doi.org/10.1016/j.rineng.2024.102682>
- Udayashankara, T. H., Murthy, B. M. S., & Madhukar, M. (2016). Impact of climate change on rainfall pattern and reservoir level. *Journal of Water Resource Engineering and Management*, 3(1), 10–14.
- Ukarande, S. K. (2023). Hydrology. In S. K. Ukarande (Ed.), *Irrigation Engineering and Hydraulic Structures* (pp. 26–68). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-33552-5_3
- Urban stormwater management manual for Malaysia*. (2012). Department of Irrigation and Drainage Malaysia.
- Wang, P. L., & Feddema, J. J. (2020). Linking Global Land Use/Land Cover to Hydrologic Soil Groups From 850 to 2015. *Global Biogeochemical Cycles*, 34(3). <https://doi.org/10.1029/2019GB006356>
- Weng, T. K., Weng, K., Phui, T. &, & Loh, N. (2017). CLIMATE CHANGE ASSESSMENT ON RAINFALL AND TEMPERATURE IN CAMERON HIGHLANDS, MALAYSIA, USING REGIONAL CLIMATE DOWNSCALING METHOD. In *Carpathian Journal of Earth and Environmental Sciences* (Vol. 12, Issue 2). <https://www.researchgate.net/publication/315924874>

- Worqlul, A. W., Ayana, E. K., Yen, H., Jeong, J., MacAlister, C., Taylor, R., Gerik, T. J., & Steenhuis, T. S. (2018). Evaluating hydrologic responses to soil characteristics using SWAT model in a paired-watersheds in the Upper Blue Nile Basin. *Catena*, 163, 332–341. <https://doi.org/10.1016/j.catena.2017.12.040>
- Zhang, X., Qiao, W., Huang, J., Li, H., & Wang, X. (2023). Impact and analysis of urban water system connectivity project on regional water environment based on Storm Water Management Model (SWMM). *Journal of Cleaner Production*, 423. <https://doi.org/10.1016/j.jclepro.2023.138840>

