Publications in SCI / SCIE Journals Indexed in Web of Science :

- P. Agrawal , J. Sinha , N.Jangre , F.Kumar , Kamalkant , A.Sinha , A. Singh , A. Banerjee , A.S. Venkatesh , Pasupuleti S.,**2025**, "Developing an efficient and optimized irrigation plan under varying water-supply regimes", **Ain Shams Engineering Journal,** Volume 16, Issue 2, February 2025, 103272, **(I.F.- 6.0), Q1.**

- Singh A., K.S. Durbha, A.Sinha, Pasupuleti S., **2024**, "Comparative assessment of fluoride and arsenic mobilization mechanisms among the groundwater of the major affected river basins of India", **Water Supply**,Vol 24 No 9, 2969 doi:10.2166/ws.2024.196.**(I.F.- 1.9), Q3.**

- A. Banerjee, A.Chatterjee, A. Singh, **Pasupuleti S.,** V. Uddameri, **2024**, "A risk assessment framework utilizing bivariate copula for contaminate monitoring in groundwater", **Environmental Science and Pollution Research**, 31:49744–49756 https://doi.org/ 10.1007/ s11356-024-34417-0, **(I.F.- 5.19), Q2.**

- Nune, R., Western, A.W., George, B.A., Gummadi, S., **Pasupuleti, S.,** Ragab, R.,Sreenath D., **2024**, "An assessment of future climatic and anthropogenic impacts on the hydrological system of a semi-arid catchment, **Irrigation and Drainage**, 1–27. https:// doi.org/ 10.1002/ird.3018. **(I.F.- 1.7), Q3.**

- Kumari , A.Sinha , D.B. Singh , **Pasupuleti S., 2024** "Source apportionment and health risk assessment in chromite mining area: Insights from entropy water quality indexing and Monte Carlo simulation", **Process Safety and Environmental Protection**, 184, 2024, Pages 526-541,https://doi.org/10.1016/j.psep.2024.01.091 **(I.F.- 7.8), Q1.**

- S. Kumar, P. Das, N. Mandal, Chanda K., **Pasupuleti S., 2024** "Joint probabilistic behaviour of climate extremes over the Godavari River basin, India", **International Journal of Climatology,** https://doi.org/10.1002/joc.8486, **(I.F.- 3.65), Q2.**

- T. Chatterjee, U.Gogoi, A. Samanta, A.Chatterjee, M.K.Singh**, Pasupuleti S., 2024,** "Identifying the Most Discriminative Parameter for Water Quality Prediction Using Machine Learning Algorithms", **Water,** 16(3),481; https://doi.org/10.3390/w16030481 **(I.F.- 3.4), Q2.**

- A. Raj, A.Sinha, A. Singh, **Pasupuleti S., 2023,** "Assessment and prediction of hexavalent chromium vulnerability in groundwater by Geochemical modelling , NOBLES Index an d Random Forest Model", **Science of the Total**

Environment, https: //doi.org /10.1016/ j.scitotenv.2023.167570 **(I.F. - 10.75), Q1.**

- A.Chawla, K.Sarkar, R. Abhishek, S.Chawla, **Pasupuleti S.,** S. Mishra, **2023,** "A geo technical approach to compare different slope stabilization techniques for failed slope in the Darjeeling hills, India", **Environmental Earth Sciences** 82: 376 https:// doi.org/ 10.1007/s12665-023-11054-3 **(I.F. - 3.11). Q2.**
- Singh R.K., S.Kumar, **Pasupuleti S.,** V.G.K.Villuri, A.Agarwal, **2023,** "Evaluating evolutionary algorithms for simulating catchment response to river discharge", **Journal of Water and Climate Change**, jwc2023083.,https://doi.org/10.2166/wcc.2023.083 **(I.F. - 2.8). Q3.**
- Kumar S., Chanda K., **Pasupuleti S., 2023,** "Association of tropical daily precipitation extremes with physical covariates in a changing climate", **Stochastic Environmental Research & Risk Assessment,** https://doi.org/10.1007/s00477-023-02433-0 **(I.F.-3.82). Q1.**
- Kumar S., Chanda K., **Pasupuleti S., 2022,** "Pre- and post-1975 scaling relationships of monsoon and non-monsoon hourly precipitation extremes with coincident temperature across urban India**", Journal of Hydrology**,(published online), 612 (2022),128180, https://doi.org/10.1016/j.jhydrol.2022.128180. **(I.F. - 6.71). Q1.**
- Chowdary, P.P., Kumar, V.V.G., and **Pasupuleti, S.,** A. Banerjee, Venkatesh A.S., **2022**, "A holistic approach for understanding the status of water quality and causes of its deterioration in a drought-prone agricultural area of Southeastern India", **Environmental Science and Pollution Research**, (Published online), https://doi.org/10.1007/s11356-022-22906-z. **(I.F.- 5.19). Q2.**
- **Pasupuleti S.,** Singha S.S., Singha S, Kumar S., Singh R., Indramani D., **2022,** "Groundwater characterization and non-carcinogenic and carcinogenic health risk assessment of nitrate exposure in the Mahanadi River Basin of India", **Journal of Environmental Management,** (published online), 319, (2022) 115746, https:// doi.org/ 10.1016/j.jenvman.2022.115746 **(I.F.- 8.91). Q1.**
- Agrawal, P; Sinha, A; **Pasupuleti, S;** Sinha, J; Chatterjee, A., Kumar, S., **2022**, "Mathematical Approach to Evaluate the Extent of Groundwater Contamination using Polynomial Approximation", **Water Supply**,https://doi.org/10.2166/ws.2022.219 **(I.F.-1.9) Q3.**
- Akash P. B., Lutukurthi D.N.V.V. Konda, **Pasupuleti,S;** Krishna S.D., **2022**, "Synthesis of MgO/MgSO4 nano catalyst by thiourea–nitrate solution combustion for biodiesel production from waste cooking oil", **Renewable Energy,** 190, pp.474-486. https://doi.org/ 10.1016/j.renene.2022.03.127 **(I.F.- 8.63) Q1.**

- Singha S.S., Singha S, **Pasupuleti S.**, Venkatesh A.S., **2022**, "Knowledge-driven and machine learning decision tree-based approach for assessment of geospatial variation of groundwater quality around coal mining regions, Korba district, Central India.", **Environmental Earth Sciences**, 81:36.(published online), https://doi.org/ 10.1007/ s12665-021-10147-1 **(I.F. – 3.11). Q2**.
- S. Kumar, R.K. Guntu, A. Agarwal, V.G.K.Villuri, **Pasupuleti S.,** D.R. Kaushal; A. K. Gosain, A. Bronstert , **2022**, "Multi-objective optimization for storm water management by green-roofs and infiltration trenches to reduce urban flooding in central Delhi", **Journal of Hydrology,** Volume 606, 2022,127455. (published online), https://doi.org/10.1016/ j.jhydrol.2022.127455. **(I.F.- 6.71). Q1.**
- A. Banerjee , Sarath Chandra K.J., **Pasupuleti S.,** A.C.S. Rao, **2022**, "Alternative Relationships to Enhance the Applicability of Non-linear Filtration Models in Porous Media", **Acta Geophysica**, (published online),https://doi.org/ 10.1007/s11600-022-00950-0 **(I.F.- 2.29). Q3.**
- A. Banerjee , **Pasupuleti S.**, K. Mondal, M.M. Nezhad, **2021,** "Application of data driven machine learning approach for modelling of non-linear filtration through granular porous media", **International Journal of Heat and Mass Transfer**, (published online), 179 (2021) 121650,https://doi.org/10.1016 /j.ijheatmasstransfer. 2021.121650 **(I.F.- 5.43). Q1.**
- Singha S., **Pasupuleti S.,** Singha S.S., Singh R., Kumar S., **2021**, "Prediction of groundwater quality using efficient machine learning technique", **Chemosphere**, 276 (2021) 130265 (published online), https://doi.org/10.1016/j.chemosphere.2021.130265 **(I.F.- 8.94). Q1.**
- S. Kumar, A. Agarwal, G. Abinesh, V.G.K.Villuri, **Pasupuleti S.,** D. Kumar; D.R. Kaushal; A. K. Gosain; B.S. Kumar, **2021,** "Impact of climate change on storm water drainage in urban areas", **Stochastic Environmental Research and Risk Assessment** (published online), https://doi.org/10.1007/s00477-021-02105-x. **(I.F.- 3.82). Q1.**
- A. Banerjee , **Pasupuleti S.,** Singh, M.K., Dandu, J.M., **2021,** "Influence of Fluid Viscosity and Flow Transition over Non-Linear Filtration through Porous Media", **Journal of Earth System Science,** 130 201, (published online), https://doi.org/10.1007/s12040-021-01686-z. (**(I.F. - 1.91) .Q3.**
- S. Kumar, A.Agarwal, V.G.K.Villuri, **Pasupuleti S.,** D.Kumar, D.R. Kaushal, A.K. Gosain, A. Bronstert, B.S. Kumar, **2021**, "Constructed wetland management in urban catchments for mitigating floods", **Stochastic Environmental Research and Risk Assessment,** (published online), https://doi.org/10.1007/s00477-021-02004. (**I.F.- 3.82). Q1.**

- P. Agrawal, A.Sinha, S.Kumar, A. Agarwal, A,Banerjee, V.G.K.Villuri, A.C.S. Rao, R.Dwivedi, V.V.R. Dera, J.Sinha, **Pasupuleti S., 2021**, "Exploring Artificial Intelligence Techniques for Groundwater Quality Assessment", **Water***, 13 (9),1172; (Published online), https://doi.org/10.3390/w13091172. **(I.F.- 3.53). Q2.**
- A. Banerjee, **Pasupuleti S.**, V.G.K. Villuri, A.K. Pushkar, R. Nune, S. Dutta, **2021,** "Non-linear filtration through stratified porous media: An experimental approach to model the volumetric flow Rate and pressure drop relationship", **Journal of Porous Media,** 24, 10, pp:17-30 (published online), DOI:10.1615/ JPor Media.2021035082. **(I.F.- 1.78) . Q3**.
- Singh, R. K., Villuri, V. G. K., and **Pasupuleti, S**. **2021,** "Evaluation of water quality and risk assessment by coupled geospatial techniques and statistical approach along lower Damodar river", **International Journal of Environmental Science and Technology -** (Published online), https://doi.org/10.1007/s13762-021-03644-0 **(I.F.- 3.51) . Q3.**
- Singha S., **Pasupuleti S.,** Singha S.S., Kumar S., **2020,** "Effectiveness of groundwater heavy metal pollution indices studies by deep-learning ", **Journal of Contaminant Hydrology**, 235 (11), 103718. (Published online), https://doi.org/10.1016/j.jconhyd. 2020.103718. **(I.F.- 4.18). Q2.**
- K. Pandey, M. K. Singh, **Pasupuleti S., 2020**, "Solution of 1D Space Fractional Advection-Dispersion Equation with Nonlinear Source in Heterogeneous Medium", **Journal of Engineering Mechanics**, 146(12): 04020137 (published online), https://doi.org / 10.1061/(ASCE)EM.1943-7889.0001870. **(I.F.- 3.12). Q2.**
- R. K. Singh, A. Soni, S. Kumar **Pasupuleti S.,** V.G. K. Villuri, **2020**, "Zonation of flood prone area in integrated framework of hydrodynamic model and ANN", **Water Supply**, 21 (1): 80–97. https://doi.org/10.2166/ws.2020.252 **(I.F.- 1.9). Q3**.
- Singha S., **Pasupuleti S., 2020**, "Delineation of groundwater prospect zones in Arang block, Raipur district, Chhattisgarh, Central India, using Analytical Network Process", **Journal of the Geological Society of India**, 95 (6), pp.609-615, https://doi.org/ 10.1007/s12594-020-1487-z. **(I.F.- 1.46). Q4**.
- M. K. Singh, R. K. Singh, **Pasupuleti S., 2020**, "Study of forward-backward solute dispersion profiles in a semi-infinite groundwater system", **Hydrological Sciences Journal,** 65 (8),pp. 1416-1429 (published online), https://doi.org /10.1080/ 02626667. 2020.1740706. **(I.F.- 3.94). Q2.**
- R. K. Singh, V. G. K. Villuri, **Pasupuleti S.,** Rajesh N.,**2020,** "Hydrodynamic modeling for identifying flood vulnerability zones in lower Damodar river of

eastern India", **Ain Shams Engineering Journal**[*],(published online),https://doi.org/10.1016/j.asej. 2020. 01.011. **(I.F.- 4.79). Q1.**

- R. K. Singh, M. Pandey, J. H. Pu, **Pasupuleti S.,** V.G. K. Villuri, **2020,** "Experimental study of clear-water contraction scour", **Water Supply,** 20 (3), pp.943-952, (published online), https://doi.org /10.2166/ws.2020.014. **(I.F.- 1.9). Q3.**

- Kumar S., Chanda K., **Pasupuleti S., 2020,** " Spatio-temporal Analysis of Extreme Indices

derived from Daily Precipitation and Temperature for Climate Change Detection over India", **Theoretical and Applied Climatology.** (published online), https://doi.org /10.1007 /s00704-020-03088-5 **(I.F.- 3.40). Q3.**

- Singha S, **Pasupuleti S.,** Sandilya D K, Singha S.S, Singh R, Venkatesh A.S., **2019**, "An analytical hierarchy process-based geospatial modeling for delineation of potential anthropogenic contamination zones of groundwater from Arang block of Raipur district, Chhattisgarh, Central India", **Environmental Earth Sciences,** 78 (24): 694. (published online), https://doi.org/10.1007/s12665-019-8724-z. **(I.F.- 3.11). Q2.**

- Singha S.S., **Pasupuleti S.,** Singha S, Singh R, Venkatesh A.S., **2019, "**A GIS-based modified DRASTIC approach for geospatial modeling of groundwater vulnerability and pollution risk mapping in Korba district, Central India**",** **Environmental Earth Sciences,** 78 (21): 628. (published online), https://doi.org/10.1007/s12665-019-8640-2 **(I.F.- 3.11). Q2.**

- Singha S.S., **Pasupuleti S.,** Singha S, Singh R, Venkatesh A.S., **2019**, "Analytic Network Process based approach for delineation of groundwater potential zones in Korba district, Central India using remote sensing and GIS" **Geocarto International** (published online):1-22. https://doi.org/10.1080/10106049.2019.1648566. **(I.F.- 3.45). Q2.**

- Banerjee, A. **Pasupuleti, S.,** Singh, M.K., Dutta S.C., Kumar, G.N.P., **2019**, "Modeling of Flow through Porous Media over the Complete Flow Regime", **Transport in Porous Media**,129 (1), pp.1-23. https://doi.org/10.1007/s11242-019-01274-2. (**I.F.- 3.61). Q2.**

- R.K. Singh, V.G.K. Villuri, **Pasupuleti, S., 2019**, "Assessment of parameters and preparation of hydrodynamic model for lower Damodar Basin using geomatic techniques", **Mausam**, 70, 4, pp. 815-824. DOI: 551.509.331 : 556.166 .(**I.F. - 0.90). Q4.**

- A.Chawla, **Pasupuleti,S.,** S.Chawla, A. C. S. Rao, K.Sarkar, R. Dwivedi, **2019**, "Landslide Susceptibility Zonation Mapping: A Case Study from Darjeeling District, Eastern Himalayas, India", **Journal of the Indian Society of Remote**

Sensing, 47 (3), pp. 497-511. https://doi.org/10.1007/s12524-018-0916-6. **(I.F.- 1.89). Q4.**

- Banerjee, A., **Pasupuleti, S., 2019**, "Effect of convergent boundaries on post laminar flow through porous media", **Powder Technology,** 342, pp.288-300. https://doi.org/ 10.1016/ j.powtec.2018.09.085. **(I.F.- 5.64). Q1.**
- Saha, A.K., Sinha, A., **Pasupuleti, S.**, **2019,** "Modification, Characterization and Investigations of Key Factors Controlling the Transport of Modified Nano Zero Valent Iron (nZVI) in Porous Media", **Environmental Technology**, 40 (12), pp.1543-1556. https://doi.org/10.1080/09593330.2018.1426637. **(I.F.- 3.47). Q3.**
- V.G.K. Villuri, **Pasupuleti, S.,** K. Jain, A.Gairola, R.K. Singh, **2018**, "Hydrodynamic simulation of a cloudburst event in Asi Ganga Valley of Indian Himalayan region using MIKE11 and GIS techniques", **Mausam**, 69, 4, pp.523-534. DOI: 551.577.37 (235.243). **(I.F. - 0.90). Q4.**
- A.Chawla, S.Chawla, **Pasupuleti, S.,** A. C. S. Rao, K. Sarkar, R. Dwivedi, **2018,** "Landslide Susceptibility Mapping in Darjeeling Himalayas, India", **Advances in Civil Engineering**[*]**,** Article ID 6416492, 17 pages, https://doi.org/10.1155/2018/6416492. **(I.F.- 1.84). Q3.**
- R.Singh, A. S. Venkatesh, T. H. Syed, L. Surinaidu, **Pasupuleti, S.,** S. P. Rai, M. Kumar, **2018**, "Stable isotope systematics and geochemical signatures constraining groundwater hydraulics in the mining environment of the Korba Coalfield, Central India", **Environmental Earth Sciences,** 77: 548. Published Online, https://doi.org/10.1007/s12665-018-7725-7. **(I.F.- 3.11). Q2.**
- Banerjee, A., **Pasupuleti, S.**, Singh, M.K., Kumar, G.N.P., **2018,** "An Investigation of Parallel Post-Laminar Flow through Coarse Granular Porous Media with the Wilkins Equation". **Energies**[*], 11, 320, pp.1-19. DOI:10.3390/en11020320. **(I.F.- 3.25). Q3.**
- Singaraju, S., **Pasupuleti, S.**, Hernandez, E.A., Uddameri, V., **2018,** "Prioritizing Groundwater Monitoring in Data Sparse Regions using Atanassov Intuitionistic Fuzzy Sets (A-IFS)", **Water Resources Management**, 32(4), pp.1483–1499. https://doi.org/ 10.1007/ s11269-017-1883-3. **(I.F.- 4.42). Q1.**
- Banerjee, A., **Pasupuleti, S.**, Singh, M.K., Kumar, G.N.P., **2018,** "A study on the Wilkins and Forchheimer equations used in coarse granular media flow", **Acta Geophysica**, 66(1), pp.81-91. https://doi.org/10.1007/s11600-017-0102-1. **(I.F.- 2.29). Q3.**
- Kumar, G.N.P., **Pasupuleti, S., 2012,** "Evaluation of groundwater resources and estimation of stage of groundwater development in a basin – A case study", **Irrigation and Drainage**, 61(1), pp.129-139. DOI: 10.1002/ird.628. **(I.F.- 1.7). Q3.**

Publications in SCOPUS Journal:

- **Pasupuleti, S.,** Sandilya D. K., S.Singha., S.S. Singha, S.Saha, **2019**, "Delineation of groundwater potential zones utilising geospatial techniques in Kadiri watershed of Anantapur district, Andhra Pradesh, India", **Journal of Environmental Biology***, 40, pp.61-68. http://doi.org/10.22438/jeb/40/1/MRN-935.
- Singha, S., **Pasupuleti, S.,** Singha, S., Villuri, V.G.K., **2017,** "An integrated approach for evaluation of groundwater quality in Korba district, Chhattisgarh using Geomatic techniques", **Journal of Environmental Biology***, 38(5), pp.865-872. http://doi.org/ 10.22438/jeb/38/5/MRN-600.
- Kumar, G.N.P., Sujatha, P., **Pasupuleti, S., 2010.** "Groundwater level forecasting using feed forward neural network trained with different algorithms", **ISH Journal of Hydraulic Engineering,** 16(1), pp.20-35.
- **Pasupuleti, S.,** Satya N.T., Kumar, G.N.P, **2010.** "Evaluation of subsurface water quality by estimation of physico - chemical parameters – A case study", **Asian Journal of Microbiology, Biotechnology and Environmental Sciences*,** 12(4), pp 839 - 842.
- **Pasupuleti, S.,** Satya N.T., **2010.** "Hydro geochemical study of groundwater in Sarada river basin in Andhra Pradesh", **Asian Journal of Microbiology, Biotechnology and Environmental Sciences*,** 12(3), pp 623-626.

Publications in Other Journals:

- Singha S.S., **Pasupuleti S., 2020,** "Hydrogeochemical modeling based approach for evaluation of groundwater suitability for irrigational use in Korba district, Chhattisgarh, Central India",**SN Applied Sciences**, 2:1551 | https://doi.org/10.1007/s42452-020-03357-y
- Kumar, G.N.P., **Pasupuleti, S.,** Jaya C.K., Sujatha, P., **2011,** "Evaluation of Groundwater Potential zones and Identification of Groundwater Augmenting Structures in a basin - A case study", **Journal of Indian Water Resources Society,**31,(1-2), pp 1-11.
- **Pasupuleti, S.,** Sarala,C., Kumar, R.V., Satya N.T., Kumar, G.N.P., **2008,** "Value addition for sewage effluent generated from the designed Sewage treatment system - A case study", **Journal of Applied Hydrology,** XXI(3-4), pp 21-28.
- **Pasupuleti, S.,** Kumar, G.N.P., Sarala, C., Chowdary, P.P., **2008,** "Application of Remote Sensing and Geographical Information Systems techniques for

integrated management of Boothpur watershed in A.P.", **Journal of Applied Hydrology,** XXI (1-2), pp 65-74.

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