Barman, B., Sharma, A., Kumar, B., & Sarma, A. K. (2017). Multiscale characterization of migrating sand wave in mining induced alluvial channel. *Ecological Engineering*, *102*, 199-206.

Chavan, R., Sharma, A., & Kumar, B. (2017). Effect of downward seepage on turbulent flow characteristics and bed morphology around bridge piers. *Journal of Marine Science and Application*, *16*(1), 60-72.

Devi, T. B., & Kumar, B. (2017). Hydrodynamics of Submerged Vegetated Alluvial Channel with Downward Seepage. *Canadian Journal of Civil Engineering*.

Goyal, M. K., & Khan, M. (2017). Assessment of spatially explicit annual water-balance model for Sutlej River Basin in eastern Himalayas and Tungabhadra River Basin in peninsular India. *Hydrology Research*, *48*(2), 542-558.

Mahanta, C., & Saikia, L. (2017). Sediment Dynamics in a Large Alluvial River: Characterization of Materials and Processes and Management Challenges. In *River System Analysis and Management* (pp. 47-71). Springer Singapore.

Patel, M., Majumder, S., & Kumar, B. (2017). Effect of seepage on flow and bedforms dynamics. *Earth Surface Processes and Landforms*.

Patowary, S., & Sarma, A. K. (2017). A modified hydrodynamic model for routing unsteady flow in a river having piedmont zone. *Journal of Hydrology and Hydromechanics*, 65(1), 60-67.

Sharma, A., Chavan, R., & Kumar, B. (2017). Multi-scale statistical characterization of migrating pier scour depth in non-uniform sand bed channel. *International Journal of River Basin Management*, (just-accepted), 1-42.

Sharma, A., Devi, T. T., & Kumar, B. (2017). Turbulence in continuous flow surface aeration systems. *Water Science and Technology*, *75*(5), 1148-1157.

Someswaran, R., & Kartha, S. A. (2017). Unsaturated Physical Non-equilibrium Contaminant Transport Modeling Using Modified FEMWATER. In *Fluid Mechanics and Fluid Power–Contemporary Research* (pp. 1163-1170). Springer India.

Barua, G., & Sarmah, R. (2016). An Analytical Solution for Predicting Transient Seepage into Partially Penetrating Ditch Drains Receiving Water from a Ponded Field. *Acta Geophysica*, *64*(1), 149-205.

Borah, T., & Bhattacharjya, R. K. (2016). Development of an Improved Pollution Source Identification Model Using Numerical and ANN Based Simulation-Optimization Model. *Water Resources Management*, *30*(14), 5163-5176.

Chembolu, V., & Dutta, S. (2016). Entropy and Energy Dissipation of a Braided River System. *Procedia Engineering*, *144*, 1175-1179.

Deshpande, V., & Kumar, B. (2016). Advent of sheet flow in suction affected alluvial channels. *Environmental Fluid Mechanics*, *16*(1), 25-44.

Deshpande, V., & Kumar, B. (2016). Turbulent flow structures in alluvial channels with curved crosssections under conditions of downward seepage. *Earth Surface Processes and Landforms*.

Devi, T. B., & Kumar, B. (2016). Channel Hydrodynamics of Submerged, Flexible Vegetation with Seepage. *Journal of Hydraulic Engineering*, *142*(11), 04016053.

Devi, T. B., & Kumar, B. (2016). Experimentation on submerged flow over flexible vegetation patches with downward seepage. *Ecological Engineering*, *91*, 158-168.

Devi, T. B., & Kumar, B. (2016). Flow characteristics in an alluvial channel covered partially with submerged vegetation. *Ecological Engineering*, *94*, 478-492.

Devi, T. B., Daga, R., Mahto, S. K., & Kumar, B. (2016). Drag and Turbulent Characteristics of Mobile Bed Channel With Mixed Vegetation Densities Under Downward Seepage. *Journal of Fluids Engineering*, *138*(7), 071104.

Devi, T. B., Sharma, A., & Kumar, B. (2016). Studies on emergent flow over vegetative channel bed with downward seepage. *Hydrological Sciences Journal*, 1-13.

Devi, T. B., Sharma, A., & Kumar, B. (2016). Turbulence Characteristics of Vegetated Channel With Downward Seepage. *Journal of Fluids Engineering*, *138*(12), 121102.

Goyal, M. K., & Sarma, A. K. (2016). Analysis of the change in temperature trends in Subansiri River basin for RCP scenarios using CMIP5 datasets. *Theoretical and Applied Climatology*, 1-13.

Hasda, R. K., Bhattacharjya, R. K., & Bennis, F. (2016). Modified genetic algorithms for solving facility layout problems. *International Journal on Interactive Design and Manufacturing (IJIDeM)*, 1-13.

Karmaker, T., & Dutta, S. (2016). Prediction of short-term morphological change in large braided river using 2D numerical model. *Journal of Hydraulic Engineering*, *142*(10), 04016039.

Leichombam, S., & Bhattacharjya, R. K. (2016). Identification of unknown groundwater pollution sources and determination of optimal well locations using ANN-GA based simulation-optimization model. *Journal of Water Resource and Protection*, 8(03), 411.

Moharana, S., & Dutta, S. (2016). Spatial variability of chlorophyll and nitrogen content of rice from hyperspectral imagery. *ISPRS Journal of Photogrammetry and Remote Sensing*, *122*, 17-29.

Moharana, S., Medhi, H., & Dutta, S. (2016). Advanced vegetation indices for sensing paddy growth via hyperspectral measurements. *Geocarto International*, 1-18.

Nalini, S. S., & Sreeja, P. (2016). Impact of Total and Effective Imperviousness on Runoff Prediction. In *Urban Hydrology, Watershed Management and Socio-Economic Aspects* (pp. 23-28). Springer International Publishing.

Rajeev Gandhi, B. G., Bhattacharjya, R. K., & Satish, M. G. (2016). Simulation–Optimization-Based Virus Source Identification Model for 3D Unconfined Aquifer Considering Source Locations and Number as Variable. *Journal of Hazardous, Toxic, and Radioactive Waste*, 04016019.

Ray, M. R., & Sarma, A. K. (2016). Influence of Time Discretization and Input Parameter on the ANN Based Synthetic Streamflow Generation. *Water Resources Management*, *30*(13), 4695-4711.

Ray, M. R., & Sarma, A. K. (2016). Influence of Time Discretization and Input Parameter on the ANN Based Synthetic Streamflow Generation. *Water Resources Management*, *30*(13), 4695-4711.

Sahoo, S. N., & Sreeja, P. (2016). Determination of Effective Impervious Area for an Urban Indian Catchment. *Journal of Hydrologic Engineering*, *21*(4), 05016004.

Sahoo, S. N., & Sreeja, P. (2016). Relationship between peak rainfall intensity (PRI) and maximum flood depth (MFD) in an urban catchment of Northeast India. *Natural Hazards*, *83*(3), 1527-1544.

Sailo, L., & Mahanta, C. (2016). Natural attenuation processes of arsenic in the groundwater of the Brahmaputra floodplain of Assam, India. *Environmental Science: Processes & Impacts*, *18*(1), 115-125.

Sarma, A. K., Singh, V. P., Kartha, S. A., & Bhattacharjya, R. K. (2016). Urban Hydrology, Watershed Management and Socio-Economic Aspects. *Water science and technology library* (, 73.

Serur, A. B., & Sarma, A. K. Impact of Spatial Data Availability on Climate Change Prediction in the Weyib River Basin in Ethiopia. *Water Resources Management*, 1-16.

Serura, A. B., & Sarmab, A. K. (2016). Evaluation of the ArcSWAT Model in Simulating Catchment Hydrology: In Weyib River Basin, Bale Mountainous Area of Southeastern Ethiopia. *J Innovative and Emerging Research in Engineering*, *3*(2), 3-11.

Sharma, A., & Goyal, M. K. (2016). Bayesian network for monthly rainfall forecast: a comparison of K2 and MCMC algorithm. *International Journal of Computers and Applications*, *38*(4), 199-206.

Sharma, A., & Kumar, B. (2016). Probability distribution functions of turbulence in seepage-affected alluvial channel. *Fluid Dynamics Research*, *49*(1), 015508.

Sharma, A., & Kumar, B. (2016). Probability distribution of turbulence in curvilinear cross section mobile bed channel. *Water Science and Technology*, 73(6), 1472-1482.

Shivpure, V., Devi, T. B., & Kumar, B. (2016). Turbulent characteristics of densely flexible submerged vegetated channel. *ISH Journal of Hydraulic Engineering*, *22*(2), 220-226.

Shivpure, V., Sharm, A., & Kumar, B. (2016). Comparison of bed shear stress in plane and curvilinear bed channel using multiple criteria. *Water Resources*, *43*(1), 79-85.

Verma, S., Mukherjee, A., Mahanta, C., & Choudhury, R. (2016, April). Chemical weathering and arsenic enrichment in aquifer of Brahmaputra River Basin, India, adjoining Eastern Himalayas. In *EGU General Assembly Conference Abstracts* (Vol. 18, p. 6317).

Verma, S., Mukherjee, A., Mahanta, C., Choudhury, R., & Mitra, K. (2016). Influence of geology on groundwater–sediment interactions in arsenic enriched tectono-morphic aquifers of the Himalayan Brahmaputra river basin. *Journal of Hydrology*, *540*, 176-195.

Apurv, T., Mehrotra, R., Sharma, A., Goyal, M. K., & Dutta, S. (2015). Impact of climate change on floods in the Brahmaputra basin using CMIP5 decadal predictions. *Journal of Hydrology*, *527*, 281-291.

Barman, P. J., Kartha, S. A., & Pradhan, B. (2015). Empirical approach to predict leached nutrients from landfill site. *Environmental Science and Pollution Research*, 22(9), 6619-6633.

Barman, S., & Bhattacharjya, R. K. (2015). Change in snow cover area of Brahmaputra river basin and its sensitivity to temperature. *Environmental Systems Research*, *4*(1), 16.

Barua, G., & Patidar, M. K. (2015). An iterative method for estimating solute travel times to ditch drains under steady recharge and ponded conditions. *Applied Water Science*, 1-11.

Baviskar, S., Choudhury, R., & Mahanta, C. (2015). Dissolved and solid-phase arsenic fate in an arsenic-enriched aquifer in the river Brahmaputra alluvial plain. *Environmental monitoring and assessment*, *187*(3), 93.

Choudhury, R., Sharma, P., Mahanta, C., & Sharma, H. P. (2015). Evaluation of the processes controlling arsenic contamination in parts of the Brahmaputra floodplains in Assam, India. *Environmental Earth Sciences*, *73*(8), 4473-4482.

Deshpande, V., & Kumar, B. (2015). Does Downward Seepage Initiate Lateral Channel Shift?. *National Academy Science Letters*, *38*(6), 479-482.

Deshpande, V., & Kumar, B. (2015). Effect of downward seepage on the shape of an alluvial channel. In *Proceedings of the Institution of Civil Engineers-Water Management* (pp. 1-12). Thomas Telford Ltd.

Devi, T. B., & Kumar, B. (2015). Turbulent flow statistics of vegetative channel with seepage. *Journal of Applied Geophysics*, *123*, 267-276.

Devi, T. T., & Kumar, B. (2015). Large-eddy simulation of turbulent flow in stirred tank with a curved blade impeller. *Journal of Engineering Thermophysics*, *24*(2), 152-168.

Devi, T. T., Kumar, B., & Patel, A. K. (2015). Detached Eddy simulation of turbulent flow in stirred tank reactor. *Procedia Engineering*, *127*, 87-94.

Dubey, A. K., Gupta, P. K., Dutta, S., & Singh, R. P. (2015). An improved methodology to estimate river stage and discharge using Jason-2 satellite data. *Journal of Hydrology*, *529*, 1776-1787.

Dubey, A. K., Gupta, P., Dutta, S., & Singh, R. P. (2015). Water level retrieval using SARAL/AltiKa observations in the Braided Brahmaputra river, Eastern India. *Marine Geodesy*, *38*(sup1), 549-567.

Gogoi, N., Babu, P. J., Mahanta, C., & Bora, U. (2015). Corrigendum to "Green synthesis and characterization of silver nanoparticles using alcoholic flower extract of Nyctanthes arbortristis and in vitro investigation of their antibacterial and cytotoxic activities. *Materials Science and Engineering: C*, *4*9, 870.

Karmaker, T., & Dutta, S. (2015). Stochastic erosion of composite banks in alluvial river bends. *Hydrological Processes*, *29*(6), 1324-1339.

Mahanta, C., Choudhury, R., Basu, S., Hemani, R., Dutta, A., Barua, P. P.. & Saikia, L. (2015). Preliminary Assessment of Arsenic Distribution in Brahmaputra River Basin of India Based on Examination of 56,180 Public Groundwater Wells. In *Safe and Sustainable Use of Arsenic-Contaminated Aquifers in the Gangetic Plain* (pp. 57-64). Springer International Publishing.

Mahanta, C., Enmark, G., Nordborg, D., Sracek, O., Nath, B., Nickson, R. T., ... & Choudhury, R. (2015). Hydrogeochemical controls on mobilization of arsenic in groundwater of a part of Brahmaputra river floodplain, India. *Journal of Hydrology: Regional Studies*, *4*, 154-171.

Patel, M., Deshpande, V., & Kumar, B. (2015). Turbulent characteristics and evolution of sheet flow in an alluvial channel with downward seepage. *Geomorphology*, 248, 161-171.

Ranganathan, K., & Goyal, M. K. (2015). Clean development mechanism–an opportunity to mitigate carbon footprint from the energy sector of India. *Current Science*, *109*(4), 672.

Sahoo, S. N., & Sreeja, P. (2015). Development of Flood Inundation Maps and Quantification of Flood Risk in an Urban Catchment of Brahmaputra River. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, A4015001.

Sarkar, R., & Dutta, S. (2015). Parametric study of a physically-based, plot-scale hillslope hydrological model through virtual experiments. *Hydrological Sciences Journal*, *60*(3), 448-467.

Sarkar, R., Dutta, S., & Dubey, A. K. (2015). An insight into the runoff generation processes in wet sub-tropics: Field evidences from a vegetated hillslope plot. *Catena*, *128*, 31-43.

Sarma, B., Sarma, A. K., Mahanta, C., & Singh, V. P. (2015). Optimal ecological management practices for controlling sediment yield and peak discharge from hilly urban areas. *Journal of Hydrologic Engineering*, *20*(10), 04015005.

Sarmah, R., & Barua, G. (2015). Hydraulics of a partially penetrating ditch drainage system in a layered soil receiving water from a ponded field. *Journal of Irrigation and Drainage Engineering*, *141*(8), 04015001.

Sharma, A., & Goyal, M. K. (2015). Bayesian network model for monthly rainfall forecast. In *Research in Computational Intelligence and Communication Networks (ICRCICN), 2015 IEEE International Conference on* (pp. 241-246). IEEE.

Sharma, A., Patel, M., & Kumar, B. (2015). Turbulent parameters and corresponding sediment transport in curved cross-section channel. *ISH Journal of Hydraulic Engineering*, *21*(3), 333-342.

Shivpure, V., Devi, T. B., & Kumar, B. (2015). Analysing turbulence characteristics of flow over submerged flexible vegetated channel. *ISH Journal of Hydraulic Engineering*, *21*(3), 265-275.

Singh, V., Goyal, M. K., & Chu, X. (2015). Multicriteria Evaluation Approach for Assessing Parametric Uncertainty during Extreme Peak and Low Flow Conditions over Snow Glaciated and Inland Catchments. *Journal of Hydrologic Engineering*, *21*(1), 04015044.

Verma, S., Mukherjee, A., Choudhury, R., & Mahanta, C. (2015). Brahmaputra river basin groundwater: solute distribution, chemical evolution and arsenic occurrences in different geomorphic settings. *Journal of Hydrology: Regional Studies*, *4*, 131-153.

Borah, T., & Bhattacharjya, R. K. (2014). Development of Unknown Pollution Source Identification Models Using GMS ANN–Based Simulation Optimization Methodology. *Journal of Hazardous, Toxic, and Radioactive Waste*, *19*(3), 04014034.

Devi, T. T., & Kumar, B. (2014). Effects of superficial gas velocity on process dynamics in bioreactors. *Thermophysics and Aeromechanics*, *21*(3), 365-382.

Devi, T. T., & Kumar, B. (2014). Scale up criteria for dual stirred gas-liquid unbaffled tank with concave blade impeller. *Korean Journal of Chemical Engineering*, *31*(8), 1339-1348.

Dubey, A. K., Gupta, P., Dutta, S., & Kumar, B. (2014). Evaluation of satellite-altimetry-derived river stage variation for the braided Brahmaputra River. *International Journal of Remote Sensing*, *35*(23), 7815-7827.

Goyal, M. K., & Singh, V. (2014). Discussion of "SWAT-Based Evapotranspirative Water Conservation Analysis Performed on Irrigated Croplands to Determine Potential Regional Water Savings" by Andrew Gayley. *Journal of Irrigation and Drainage Engineering*, *140*(4), 456-462.

Hiremath, R. B., Kattumuri, R., Kumar, B., & Hiremath, G. R. (2014). Health and safety aspects of textile workers from Solapur (India) textile industries. *Indian Journal of Community Health*, *26*(4), 364-369.

Kalita, H. M., Sarma, A. K., & Bhattacharjya, R. K. (2014). Evaluation of optimal river training work using GA based linked simulation-optimization approach. *Water resources management*, *28*(8), 2077-2092.

Kumar, B. (2014). Flow prediction in vegetative channel using hybrid artificial neural network approach. *Journal of Hydroinformatics*, *16*(4), 839-849.

Kumar, B., Jha, A., Deshpande, V., & Sreenivasulu, G. (2014). Regression model for sediment transport problems using multi-gene symbolic genetic programming. *Computers and Electronics in Agriculture*, *103*, 82-90.

Royal, I., & Goyal, M. K. (2014). Estimation of soil carbon stocks in Pabitora Sanctuary and Manas National Park in Assam. *CURRENT SCIENCE*, *107*(1), 94.

Sahoo, S. N., & Pekkat, S. (2014). Determination of urbanisation based on imperviousness. *Proceedings of the Institution of Civil Engineers-Urban Design and Planning*, 167(2), 49-57.

Sahoo, S. N., & Sreeja, P. (2014). A methodology for determining runoff based on imperviousness in an ungauged peri-urban catchment. *Urban Water Journal*, *11*(1), 42-54.

Sailo, L., & Mahanta, C. (2014). Arsenic mobilization in the Brahmaputra plains of Assam: groundwater and sedimentary controls. *Environmental monitoring and assessment*, *186*(10), 6805-6820.

Barua, G., & Alam, W. (2013). An analytical model for predicting transient flow into equally spaced ditch drains receiving water from a uniformly ponded field. *Water Resources Management VII*, 171, 323.

Barua, G., & Alam, W. (2013). An analytical solution for predicting transient seepage into ditch drains from a ponded field. *Advances in Water Resources*, *52*, 78-92.

Bhattacharjya, R. K., & Chaurasia, S. (2013). Geomorphology based semi-distributed approach for modelling rainfall-runoff process. *Water resources management*, 27(2), 567-579.

Bhattacharjya, R. K., Srivastava, A., & Satish, M. G. (2013). Hybrid-Optimization Approach for Estimating Parameters of a Virus Transport Process in Aquifer. *Journal of Hazardous, Toxic, and Radioactive Waste*, *19*(2), 04014025.

Bhave, S., & Sreeja, P. (2013). Influence of initial soil condition on infiltration characteristics determined using a disk infiltrometer. *ISH Journal of Hydraulic Engineering*, *19*(3), 291-296.

Borah, T., & Bhattacharjya, R. K. (2013). Solution of source identification problem by using GMS and MATLAB. *ISH Journal of Hydraulic Engineering*, *19*(3), 297-304.

Devi, T. T., & Kumar, B. (2013). CFD Simulation of Flow Patterns in Dual Impeller Stirred Tank. *International Journal of Modelling and Simulation*, 33(2), 117-125.

Devi, T. T., & Kumar, B. (2013). Comparison of flow patterns of dual Rushton and CD-6 impellers. *Theoretical Foundations of Chemical Engineering*, *47*(4), 344-355.

Dey, A., & Bhattacharya, R. K. (2014). Monitoring of River Center Line and Width—A Study on River Brahmaputra. *Journal of the Indian Society of Remote Sensing*, *42*(2), 475-482.

Hiremath, R. B., Balachandra, P., Kumar, B., Bansode, S. S., & Murali, J. (2013). Indicator-based urban sustainability—A review. *Energy for sustainable development*, *17*(6), 555-563.

Jha, A., & Kumar, B. (2013). Particle Swarm Optimization Neural Network for Flow Prediction in Vegetative Channel. *Journal of Intelligent Systems*, 22(4), 487-501.

Karmaker, T., & Dutta, S. (2013). Modeling seepage erosion and bank retreat in a composite river bank. *Journal of Hydrology*, *476*, 178-187.

Kumar, C., & Sreeja, P. (2013). Reply to the discussion on "Evaluation of selected equations for predicting scour at downstream of ski-jump spillway using laboratory and field data" [Engineering Geology 129–130 (2012) 98–103]. *Engineering Geology*, (155), 96.

Sahoo, S. N., & Sreeja, P. (2013). A review of decision support system applications in flood management. *International Journal of Hydrology Science and Technology*, *3*(3), 206-220.

Sahoo, S. N., & Sreeja, P. (2013). Role of rainfall events and imperviousness parameters on urban runoff modelling. *ISH Journal of Hydraulic Engineering*, *19*(3), 329-334.

Sailo, L., & Mahanta, C. (2013). Hydrogeochemical factors affecting the mobilization of As into the groundwater of the Brahmaputra alluvial plains of Assam, Northeast India. *Environmental Science: Processes & Impacts*, *15*(9), 1775-1782.

Sarma, B., Sarma, A. K., & Singh, V. P. (2013). Optimal ecological management practices (EMPs) for minimizing the impact of climate change and watershed degradation due to urbanization. *Water resources management*, *27*(11), 4069-4082.

Sharma, R. D., Sarkar, R., & Dutta, S. (2013). Run-off generation from fields with different land use and land covers under extreme storm events. *Current Science(Bangalore)*, *104*(8), 1046-1053.

Das, R. K., Gogoi, N., Babu, P. J., Sharma, P., Mahanta, C., & Bora, U. (2012). The synthesis of gold nanoparticles using Amaranthus spinosus leaf extract and study of their optical properties.

Deshpande, V., & Kumar, B. (2012). Review and assessment of the theories of stable alluvial channel design. *Water Resources*, *39*(4), 481-487.

Devi, T. T., & Kumar, B. (2012). CFD simulation of flow patterns in unbaffled stirred tank with CD-6 impeller. *Chemical Industry and Chemical Engineering Quarterly*, *18*(4-1), 535-546.

Ghosh, S., & Dutta, S. (2012). Impact of climate change on flood characteristics in Brahmaputra basin using a macro-scale distributed hydrological model. *Journal of earth system science*, 121(3), 637-657.

Hiremath, R. B., & Kumar, B. (2011). Low-cost bioenergy options for rural India. *Journal of Management in Engineering*, 28(1), 70-80.

Kalita, H. M., & Sarma, A. K. (2012). Efficiency and performances of finite difference schemes in the solution of saint Venant's equation. *International journal of civil and structural engineering*, 2(3), 941.

Kartha, S. A., & Srivastava, R. (2012). Slow and fast transport in heap leaching of precious metals. *Transport in porous media*, 1-21.

Kattumuri, R., Kumar, B., Khatri, V. N., Hiremath, R. B., & Patil, S. S. (2012). An integrated networking approach for a sustainable textile sector in Solapur, India. *Urbani izziv*, (23 (2)), 140-151.

Kumar, B. (2012). Neural network prediction of bed material load transport. *Hydrological Sciences Journal*, *57*(5), 956-966.

Kumar, B. (2012). Vortex in baffled surface aerator. *International Journal of Environmental Engineering*, *4*(1-2), 24-33.

Kumar, B., & Devi, T.T. (2012). Oxygen transfer with circulation flow rate in unbaffled surface aerator.

Kumar, C., & Sreeja, P. (2012). Evaluation of selected equations for predicting scour at downstream of ski-jump spillway using laboratory and field data. *Engineering Geology*, *129*, 98-103.

Mahanta, C., Mondal, S., & Bhattacharya, P. (2012, July). Evaluation of arsenic removal potential of few indigenous materials through batch study. In *Understanding the Geological and Medical Interface of Arsenic-As 2012: Proceedings of the 4th International Congress on Arsenic in the Environment, 22-27 July 2012, Cairns, Australia* (p. 289). CRC Press.

Patowary, S., & Sarma, A. K. (2013). Hydrodynamic flood routing considering piedmont zone. *International Journal of Civil and Structural Engineering*, *3*(3), 464.

Saharia, M., & Bhattacharjya, R. K. (2012). Geomorphology-based time-lagged recurrent neural networks for runoff forecasting. *KSCE Journal of Civil Engineering*, *16*(5), 862-869.

Sahoo, S. N., & Sreeja, P. (2012). Application of geospatial technologies to determine imperviousness in peri-urban areas. *International Journal of Remote Sensing Applications*, 2(4), 47-51.

Sarkar, R., & Dutta, S. (2011). Field investigation and modeling of rapid subsurface stormflow through preferential pathways in a vegetated hillslope of northeast India. *Journal of Hydrologic Engineering*, *17*(2), 333-341.

Sharma, P., Sarma, H. P., & Mahanta, C. (2012). Evaluation of groundwater quality with emphasis on fluoride concentration in Nalbari district, Assam, Northeast India. *Environmental Earth Sciences*, *65*(7), 2147-2159.

Talukdar, S., Kumar, B., & Dutta, S. (2012). Predictive capability of bedload equations using flume data. *J. Hydrol. Hydromech*, *60*(1), 45-56.

Verma, R., & Dutta, S. (2013). Vegetation dynamics from denoised NDVI using empirical mode decomposition. *Journal of the Indian Society of Remote Sensing*, *41*(3), 555-566.

Bhattacharjya, R. K. (2010). Solving groundwater flow inverse problem using spreadsheet solver. *Journal of Hydrologic Engineering*, *16*(5), 472-477.

Das, P., & Dutta, S. A trend analysis study on the flashiness of floods of hilly headwater catchments in the Brahmaputra Basin.

Devi, T. T., & Kumar, B. (2011). Analyzing flow hydrodynamics in stirred tank with CD-6 and Rushton impeller. *International Review of Chemical Engineering*, *3*(4), 440-448.

Devi, T. T., & Kumar, B. (2011). Analyzing flow hydrodynamics in stirred tank with CD-6 and Rushton impeller. *International Review of Chemical Engineering*, *3*(4), 440-448.

Devi, T. T., Malsur, B., & Kumar, B. (2011). Influence of impeller submergence depth on power consumption in stirred tank. *Chemical Engineering Research Bulletin*, *15*(1), 45-47.

Devi, T. T., Sinha, A. P., Thakre, M., & Kumar, B. (2011). Impeller Submergence Depth for Stirred Tanks. *Bulletin of Chemical Reaction Engineering & Catalysis*, 6(2), 123-128.

Ghosh, S., & Dutta, S. (2011). Impact of climate and land use changes on the flood characteristics of the Brahmaputra basin. *ISH Journal of Hydraulic Engineering*, *17*(sup1), 32-42.

Hiremath, R. B., Kumar, B., Balachandra, P., & Ravindranath, N. H. (2011). Decentralized sustainable energy planning of Tumkur district, India. *Environmental Progress & Sustainable Energy*, *30*(2), 248-258.

Hiremath, R. B., Kumar, B., Balachandra, P., & Ravindranath, N. H. (2011). Implications of decentralised energy planning for rural India. *Journal of Sustainable Energy & Environment*, 2, 31-40.

Karmaker, T., & Dutta, S. (2011). Erodibility of fine soil from the composite river bank of Brahmaputra in India. *Hydrological Processes*, *25*(1), 104-111.

Kartha, S. A. (2011). Non-ideal solute transport model on heap leaching of oxide copper ores. *Int. J. Earth Sci. Eng*, *4*(06), 451-458.

Kumar, B. (2011). Chemicals management in India. CURRENT SCIENCE, 100(2), 148.

Kumar, B. (2011). Design consideration for the circulating water conductor system of a power plant. *Dam Engineering*, 22(2), 103.

Kumar, B. (2011). Flow resistance in alluvial channel. Water Resources, 38(6), 745-754.

Kumar, B. (2011, January). Data mining approach for friction factor in mobile bed channel. In *Proceedings of the Institution of Civil Engineers-Water Management* (Vol. 164, No. 1, pp. 15-25). Thomas Telford Ltd.

Kumar, B., & Devi, T. T. (2011). Impeller Submergence Depth on Power Consumption of Mixing Tank. In *Proceedings of International Conference on Environmental Science and Development (ICESD 2011)*.

Kumar, B., Patel, A. K., & Rao, A. R. (2011). Mass transfer and shear rate in baffled surface aerator. *Korean Journal of Chemical Engineering*, 28(2), 502-506.

Kumar, B., Patel, A., & Rao, A. (2011). Investigations of mixing time scales in a baffled circular tank with a surface aerator. *Environmental Engineering Research*, *16*(1), 47-51.

Kumar, B., Rao, A. R., & Patel, A. K. (2011). Parameter optimization of unbaffled circular surface aeration tank. *Journal of environmental science & engineering*, *53*(1), 21-26.

Mahanta, C., Choudhury, R., Borah, P., Sailo, L., Mondal, S., Saikia, L., & Alam, W. (2011). Monitoring and Surveillance of Groundwater Arsenic Contamination in the Brahmaputra Floodplain in Assam. In *World Environmental and Water Resources Congress 2011: Bearing Knowledge for Sustainability* (pp. 4255-4266).

Rao, A. R., Sreenivasulu, G., & Kumar, B. (2011). Geometry of sand-bed channels with seepage. *Geomorphology*, *128*(3), 171-177.

Ray, M. R., & Sarma, A. K. (2011). Minimizing diurnal variation of downstream flow in hydroelectric projects to reduce environmental impact. *Journal of Hydro-environment Research*, *5*(3), 177-185.

Sahoo, S. N., & Sreeja, P. (2011). Determination Of Infiltration Parameters For Urban Flood Modeling. *i-Manager's Journal on Civil Engineering*, 1(3), 7.

Sahoo, S. N., & Sreeja, P. Total and Effective Impervious Area from low resolution satellite imageries.

Sreenivasulu, G., Kumar, B., & Rao, A. R. (2011). Variation of stream power with seepage in sandbed channels. *Water SA*, *37*(1), 115-119.

Barua, G., & Bora, S. N. (2010). Hydraulics of a partially penetrating well with skin zone in a confined aquifer. *Advances in Water Resources*, *33*(12), 1575-1587.

Bhattacharjya, R. K. (2010). Discussion of "Evolutionary Algorithms for the Determination of Critical Depths in Conduits" by A. Kanani, M. Bakhtiari, SM Borghei, and D.-S. Jeng. *Journal of irrigation and drainage engineering*, 136(3), 221-223.

Bhattacharjya, R. K., & Satish, M. G. (2010). Optimal design of water-conveying canal considering seismic stability of side slopes. *Irrigation and Drainage*, *59*(3), 291-302.

Dutta, S., Medhi, H., Karmaker, T., Singh, Y., Prabu, I., & Dutta, U. (2010). Probabilistic flood hazard mapping for embankment breaching. *ISH Journal of Hydraulic Engineering*, *16*(sup1), 15-25.

Gupta, P. K., Dutta, S., & Panigrahy, S. (2010). Mapping of conjunctive water use productivity pattern in an irrigation command using temporal IRS WiFS data. *Water resources management*, *24*(1), 157-171.

Hiremath, R. B., Kumar, B., Balachandra, P., & Ravindranath, N. H. (2010). Bottom-up approach for decentralised energy planning: Case study of Tumkur district in India. *Energy Policy*, *38*(2), 862-874.

Hiremath, R. B., Kumar, B., Balachandra, P., & Ravindranath, N. H. (2010). Sustainable bioenergy production strategies for rural India. *Mitigation and adaptation strategies for global change*, *15*(6), 571-590.

Karmaker, T., & Dutta, S. (2010). Generation of synthetic seasonal hydrographs for a large river basin. *Journal of hydrology*, 381(3), 287-296.

Karmaker, T., Ramprasad, Y., & Dutta, S. (2010). Sediment transport in an active erodible channel bend of Brahmaputra river. *Sadhana*, *35*(6), 693-706.

Kumar, B. (2010). Energy dissipation and shear rate with geometry of baffled surface aerator. *Chemical Engineering Research Bulletin*, *14*(2), 92-96.

Kumar, B., & Bhatla, A. (2010). Genetic Algorithm Optimized Neural Network Prediction of Friction Factor in a Mobile Bed Channel. *Journal of Intelligent Systems*, *19*(4), 315.

Kumar, B., & Rao, A. R. (2010). Continuous-Flow Surface Aeration Systems. *Chemical engineering & technology*, *33*(2), 305-314.

Kumar, B., & Rao, A. R. (2010). Metamodeling approach to predict friction factor of alluvial channel. *Computers and electronics in agriculture*, 70(1), 144-150.

Kumar, B., & Rao, A. R. (2010). Metamodeling approach to predict friction factor of alluvial channel. *Computers and electronics in agriculture*, 70(1), 144-150.

Kumar, B., & Rao, A. R. (2010). Performance comparison of batch and continuous flow surface aeration systems. *Korean Journal of Chemical Engineering*, 27(6), 1796-1800.

Kumar, B., & Samui, P. (2010). Determination of stability numbers for soil slopes following non-associated non-coaxial flow rule. *International Journal of Geotechnical Engineering*, *4*(1), 89-97.

Kumar, B., Devi, T. T., Patel, A. K., & Bhatla, A. (2011). Optimal Geometric Configuration for Power Consumption in Baffled Surface Aeration Tanks. *Bulletin of Chemical Reaction Engineering & Catalysis*, *5*(2), 87-93.

Kumar, B., Patel, A. K., & Rao, A. R. (2010). Energy Dissipation with Geometric Parameters in Unbaffled Surface Aerator. *Journal of Environmental Science and Engineering*, *4*(2), 80.

Kumar, B., Patel, A. K., & Rao, A. R. (2010). Shape effect on optimal geometric conditions in surface aeration systems. *Korean journal of chemical engineering*, 27(1), 159-162.

Kumar, B., Sreenivasulu, G., & Ramakrishna Rao, A. (2010). Metamodel-based design of alluvial channels at incipient motion subjected to seepage. *Hydrological Sciences Journal–Journal des Sciences Hydrologiques*, *55*(3), 459-466.

Kumar, B., Sreenivasulu, G., & Rao, A. (2010). Radial basis function network based design of incipient motion condition of alluvial channels with seepage. *Journal of Hydrology and Hydromechanics*, *58*(2), 102-113.

Kumar, B., Sreenivasulu, G., & Rao, A. R. (2010). Regime relationships of alluvial canal with seepage. *Journal of Hydraulic Research*, *48*(3), 315-319.

Mahanta, C. (2010). India's north east and hydropower development: Future security challenges. *South Asian Survey*, *17*(1), 131-146.

Rao, A. R., Patel, A. K., & Kumar, B. (2010). Power characteristics of surface aerators. *Journal of chemical technology and biotechnology*, *85*(6), 805-813.

Shougrakpam, S., Sarkar, R., & Dutta, S. (2010). An experimental investigation to characterise soil macroporosity under different land use and land covers of northeast India. *Journal of Earth System Science*, *119*(5), 655-674.

Sreenivasulu, G., Rao, A. R., Kumar, B., & Tripathi, S. (2010). Analysis of gradually and spatially varied flow in sand-bed channels. *Journal of Hydraulic Research*, *48*(2), 274-279.

Bhattacharjya, R. K., & Datta, B. (2009). ANN-GA-based model for multiple objective management of coastal aquifers. *Journal of Water Resources Planning and Management*, *135*(5), 314-322.

Bhattacharjya, R. K., & Satish, M. G. (2009). Discussion of "Flooding Probability Constrained Optimal Design of Trapezoidal Channels" by Amlan Das. *Journal of Irrigation and Drainage Engineering*, *135*(1), 129-131.

Bhattacharjya, R. K., Datta, B., & Satish, M. G. (2009). Performance of an artificial neural network model for simulating saltwater intrusion process in coastal aquifers when training with noisy data. *KSCE Journal of Civil Engineering*, *13*(3), 205-215.

Deka, R. L., Mahanta, C., & Nath, K. K. (2009). Trends and fluctuations of temperature regime of North East India. *Impact of Climate Change on Agriculture*, 376-380.

Hiremath, R. B., Kumar, B., Balachandra, P., Ravindranath, N. H., & Raghunandan, B. N. (2009). Decentralised renewable energy: Scope, relevance and applications in the Indian context. *Energy for Sustainable Development*, *13*(1), 4-10.

Hiremath, R. B., Kumar, B., Deepak, P., Balachandra, P., Ravindranath, N. H., & Raghunandan, B. N. (2009). Decentralized energy planning through a case study of a typical village in India. *Journal of renewable and sustainable energy*, *1*(4), 043103.

Kumar, B. (2009). Variability of Energy Dissipation and Shear Rate with Geometry in Unbaffled Surface Aerator. *Bulletin of Chemical Reaction Engineering & Catalysis*, *4*(2), 55-60.

Kumar, B., & Rao, A. R. (2009). Oxygen transfer and energy dissipation rate in surface aerator. *Bioresource technology*, *100*(11), 2886-2888.

Kumar, B., & Rao, A. R. (2009). Oxygen transfer and shear rate in surface aerator. *Environmental technology*, *30*(9), 947-951.

Kumar, B., Hiremath, R. B., Balachandra, P., & Ravindranath, N. H. (2009). Bioenergy and food security: Indian context. *Energy for Sustainable Development*, *13*(4), 265-270.

Mahanta, C. (2009). Climate Change threats to India's water resources and emerging policy responses. *Nature*, *460*, 999-1002.

McNeely, J. A., Solh, M., Hiremath, R. B., Kumar, B., Suarez, P. A., Uprety, K., ... & Legoupil, J. C. (2009, May). Experts address the question: "Can the growing demand for biofuels be met without

threatening food security?". In *Natural Resources Forum* (Vol. 33, No. 2, pp. 171-173). Blackwell Publishing Ltd.

Rao, A. R., & Kumar, B. (2009). Analytical formulation of the correction factor applied in Einstein and Barbarossa equation (1952). *J. Hydrol. Hydromech*, *57*(1), 40-44.

Rao, A. R., & Kumar, B. (2009). Energy losses at pipe trifurcations. *Urban Water Journal*, 6(4), 333-340.

Rao, A. R., & Kumar, B. (2009). Incipient Motion Criterion for Plane Bed Channels. *International Journal of Fluid Mechanics Research*, *36*(1).

Rao, A. R., & Kumar, B. (2009). Resistance characteristics of surface aerators. *Journal of Hydraulic Engineering*, *135*(1), 38-44.

Rao, A. R., & Kumar, B. (2009). Simulating surface aeration systems at different scale of mixing time. *Chinese Journal of Chemical Engineering*, *17*(2), 355-358.

Rao, A. R., Kumar, B., & Patel, A. K. (2009). Vortex behaviour of an unbaffled surface aerator. *Science Asia*, *35*, 183-188.

Rao, A. R., Patel, A. K., & Kumar, B. (2009). Optimal Geometric Parameters in Baffled Surface Aeration Systems. *Water Practice and Technology*, *4*(3), wpt2009049.

Rao, A. R., Patel, A. K., & Kumar, B. (2009). Oxygen transfer in circular surface aeration tanks. *Environmental technology*, *30*(7), 747-753.

Sarkar, R., & Dutta, S. (2009). An experimental and modelling investigation of macropore dominated subsurface stormflow in vegetated hillslopes of northeast India. *IAHS-AISH publication*, 145-152.

Bhattacharjya, R. K. (2008). Discussion of "Invertible Alternatives to Normal and Lognormal Distributions" by Prabhata K. Swamee and Pushpa N. Rathie. *Journal of Hydrologic Engineering*, *13*(3), 197-197.

Bhattacharjya, R. K., & Satish, M. (2008). Flooding probability-based optimal design of trapezoidal open channel using freeboard as a design variable. *Journal of irrigation and drainage engineering*, *134*(3), 405-408.

Gupta, P. K., Singh, R., Raghuwanshi, N. S., Dutta, S., & Panigrahy, S. (2008). Effect of remotely sensed data on the performance of a distributed hydrological model: Case study. *Journal of Hydrologic Engineering*, *13*(10), 939-947.

Kartha, S. A., & Srivastava, R. (2008). Effect of immobile water content on contaminant transport in unsaturated zone. *Journal of hydro-environment research*, *1*(3), 206-215.

Kartha, S. A., & Srivastava, R. (2008). Effect of slow and fast moving liquid zones on solute transport in porous media. *Transport in porous media*, 75(2), 227-247.

Kumar, B., & Rao, A. R. (2008). Environmental impact assessment: A case study of hydropower project.

Kumar, B., & Samui, P. (2008). Application of ANN for predicting pore water pressure response in a shake table test. *International Journal of Geotechnical Engineering*, 2(2), 153-160.

Kumar, B., Verma, N., & Rao, A. R. (2008). METHODOLOGY TO CONSERVE ENERGY IN SURFACE AERATORS. *Environmental Engineering & Management Journal (EEMJ)*, 7(2).

Mahanta, C., & Pathak, N. (2008). Climate Change Impact on the Southwest Monsoon Modulated Freshwater Pulsation and Consequent Nutrient Flux Variability in the Continental Shelf of the Northern Indian Ocean. In *World Environmental and Water Resources Congress 2008: Ahupua'A* (pp. 1-18).

Mahanta, C., Pathak, N., Bhattacharya, P., Enmark, G., & Nordborg, D. (2008). Source, Distribution, and Release Mechanisms of Arsenic in the Groundwater of Assam Floodplains of Northeast India. In *World Environmental and Water Resources Congress 2008: Ahupua'A* (pp. 1-19).

Mishra, S. K., Sarkar, R., Dutta, S., & Panigrahy, S. (2008). A physically based hydrological model for paddy agriculture dominated hilly watersheds in tropical region. *Journal of hydrology*, *357*(3), 389-404.

Rao, A. R. K., & Kumar, B. (2008). Scaling up of the geometrically similar unbaffled circular tank surface aerators. *Chemical engineering & technology*, *31*(2), 287-293.

Rao, A. R., & Bimlesh, K. (2008). Scale up parameter for surface aeration systems. *International Journal of Chemical Reactor Engineering*, *6*(1).

Rao, A. R., & Kumar, B. (2008). Design considerations and economics of different shaped surface aeration tanks. *Korean Journal of Chemical Engineering*, *25*(6), 1338-1343.

Rao, A. R., & Kumar, B. (2008). Estimating bed shear from velocity profile. *Journal of Hydrology and Hydromechanics (Slovak Republic)*.

Sarkar, R., Dutta, S., & Panigrahy, S. (2008). Characterizing overland flow on a preferential infiltration dominated hillslope: Case study. *Journal of Hydrologic Engineering*, *13*(7), 563-569.

Sarkar, R., Dutta, S., & Panigrahy, S. (2008). Effect of scale on infiltration in a macropore-dominated hillslope. *Current Science (00113891)*, *94*(4).

Skelton, A., Claesson, L., Chakrapani, G., Mahanta, C., Routh, J., Moörth, M., & Khanna, P. (2008). Coupling between seismic activity and hydrogeochemistry at the Shillong Plateau, Northeastern India. In *Terrestrial Fluids, Earthquakes and Volcanoes: The Hiroshi Wakita Volume III* (pp. 45-61). Birkhäuser Basel.

Sreeja, P., & Gupta, K. (2008). Transfer function formulation of Saint-Venant's equations for modeling drainage channel flow: an experimental evaluation. *Water resources management*, *22*(12), 1881-1898.

Sreenivas, B., Kumar, B., & Raghu Prasad, B. K. (2008). Investigation of the ductility demand in multistory buildings subjected to near field ground motions using neural network approach. *Journal of Earthquake Engineering*, *12*(8), 1314-1324.

Sreenivasulu, G., Kumar, B., & Rao, A. R. (2008). RBF modeling of Incipient Motion of Plane Sand Bed Channels. *World Academy of Science, Engineering and Technology, International Journal of Computer, Electrical, Automation, Control and Information Engineering*, *2*(8), 2688-2693.

Ahmed, J. A., & Sarma, A. K. (2007). Artificial neural network model for synthetic streamflow generation. *Water resources management*, *21*(6), 1015.

Barua, G., & Hoffmann, M. R. (2007). Theory of seepage into an auger hole in a confined aquifer overlying a gravel substratum. *Journal of irrigation and drainage engineering*, *133*(4), 330-341.

Bhattacharjya, R. K. (2007). Discussion of "Alternate Decision Making in Water Distribution Network with NSGA-II" by Md. Atiquzzaman, Shie-Yui Liong, and Xinying Yu. *Journal of Water Resources Planning and Management*, *133*(6), 565-566.

Bhattacharjya, R. K., & Satish, M. G. (2007). Discussion of "Optimal Pumping from Skimming Wells" by SV Rao, Sudhir Kumar, Shashank Shekhar, and D. Chakraborty. *Journal of Hydrologic Engineering*, *12*(6), 706-707.

Bhattacharjya, R. K., & Satish, M. G. (2007). Optimal design of a stable trapezoidal channel section using hybrid optimization techniques. *Journal of irrigation and drainage engineering*, *133*(4), 323-329.

Bhattacharjya, R. K., Datta, B., & Satish, M. G. (2007). Artificial neural networks approximation of density dependent saltwater intrusion process in coastal aquifers. *Journal of Hydrologic Engineering*, *12*(3), 273-282.

Girija, T. R., Mahanta, C., & Chandramouli, V. (2007). Water quality assessment of an untreated effluent impacted urban stream: the Bharalu tributary of the Brahmaputra River, India. *Environmental Monitoring and Assessment*, *130*(1), 221-236.

Ramakrishna Rao, A., & Kumar, B. (2007). Aspect ratio effect on oxygen transfer process in rectangular tank surface aerator. *Asia-Pacific Journal of Chemical Engineering*, 2(6), 592-598.

Ramakrishna Rao, A., & Kumar, B. (2007). Aspect ratio effect on oxygen transfer process in rectangular tank surface aerator. *Asia-Pacific Journal of Chemical Engineering*, 2(6), 592-598.

Rao, A. R. K., Kumar, B., & Patel, A. K. (2007). Relative performance of different shaped surface aeration tanks. *Water Quality Research Journal of Canada*, 42(1), 26-40.

Rao, A. R., & Kumar, B. (2007). Neural modeling of square surface aerators. *Journal of Environmental Engineering*, 133(4), 411-418.

Rao, A. R., & Kumar, B. (2007). Predicting re-aeration rates using artificial neural networks in surface aerators. *International Journal of Applied Environmental Sciences*, *2*(1), 155-166.

Rao, A. R., & Kumar, B. (2007). Scale-up criteria of square tank surface aerator. *Biotechnology and bioengineering*, 96(3), 464-470.

Rao, A. R., & Kumar, B. (2007). The use of circular surface aerators in wastewater treatment tanks. *Journal of Chemical Technology and Biotechnology*, *82*(1), 101-107.

Rao, A. R., & Kumar, B. (2007). Theoretical power per unit volume and unbaffled stirred tanks.

Rao, A. R., Kumar, B., & Sreenivasulu, G. (2007). Metamodelling approach to design the alluvial channels at incipient motion. *International Journal of Sediment Research*, 22(3), 218-227.

Sreeja, P., & Gupta, K. (2007). An alternate approach for transient flow modeling in urban drainage systems. *Water resources management*, *21*(7), 1225.

Bhattacharjya, R. K. (2006). Optimal design of open channel section incorporating critical flow condition. *Journal of irrigation and drainage engineering*, *132*(5), 513-518.

Chattopadhyay, A., & Dutta, S. (2006). Mapping monsoonal soil wetness regions from multi-temporal vegetation dataset. *International journal of remote sensing*, 27(20), 4693-4700.

Dutta, S., Mishra, A., Kar, S., & Panigrahy, S. (2006). Estimating spatial curve number for hydrologic response analysis of a small watershed. *Journal of Spatial Hydrology*, *6*(2).

Kartha, S. A., & Srivastava, R. (2006). Nonideal transport in vadose zone due to leaching from a landfill. *ISH Journal of Hydraulic Engineering*, *12*(3), 12-20.

Mahanta, C. (2006). Water Resources of the Northeast: State of the Knowledge Base. *Background Paper*, 2.

Rajyalakshmi, N. V., & Dutta, S. (2006). Regionalization of rainfall–runoff processes in rice agriculture dominated watersheds. *Water science and technology*, *53*(10), 131-139.

Rao, A. R., & Kumar, B. (2006). Rectangular tank surface aerators: scale up criteria and energy conservation. *International Journal of Environmental Science & Technology*, *3*(4), 425-433.

Saikia, M. D., & Sarma, A. K. (2006). Analysis for adopting logical channel section for 1d dam break analysis in natural channels. *ARPN Journal of Engineering and Applied Sciences*, *1*(2), 46-54.

Sarma, A. K., Giraud, G., & Baishya, M. D. (2006). Rainwater harvesting for urban flood peak reduction, my Green Earth. *Journal of Society for Socio Economic Awareness and Environment Protection*, *3*(2), 14-21.

Sarma, A. K., Misra, R., & Chandramouli, V. (2006). Application of Genetic Algorithm to Determine Optimal Cropping Pattern. *OPSEARCH-NEW DELHI-*, *43*(3), 320.

Sreeja, P., & Gupta, K. (2006). Modeling of detention tank-gate system using frequency and time domain approach. *ISH Journal of Hydraulic Engineering*, *12*(1), 110-120.

Sreeja, P., & Gupta, K. (2006). Modeling of detention tank-gate system using frequency and time domain approach. *ISH Journal of Hydraulic Engineering*, *12*(1), 110-120.

Barua, G., & Hoffmann, M. R. (2005). Theory of seepage into an auger hole in a confined aquifer. *Journal of irrigation and drainage engineering*, *131*(5), 440-450.

Bhattacharjya, R. K. (2005). Optimal Design Of Open Channel Section Considering Freeboard. *ISH Journal of Hydraulic Engineering*, *11*(3), 141-151.

Bhattacharjya, R. K., & Datta, B. (2005). Optimal management of coastal aquifers using linked simulation optimization approach. *Water resources management*, *19*(3), 295-320.

Jain, A., Srinivasalu, S., & Bhattacharjya, R. K. (2005). Determination of an optimal unit pulse response function using real-coded genetic algorithm. *Journal of hydrology*, *303*(1), 199-214.

Rao, A. R. K., Kumar, B., & Patel, A. (2005). Rectangular Surface Aerators. *Journal of Environmental Science & Engg*, 4(No-1), 47-52.

Zade, M., Ray, S. S., Dutta, S., & Panigrahy, S. (2005). Analysis of runoff pattern for all major basins of India derived using remote sensing data. *Current science*, 1301-1305.

Bhattacharjya, R. K. (2004). Optimal design of unit hydrographs using probability distribution and genetic algorithms. *Sadhana*, *29*(5), 499-508.