

Publications of Prof. Raj Mohan Singh, Civil Engg. Deptt.

Published:Details

Journals

1. Yadav, A., Singh, R.M. The Role of Channel Modification in Flood Mitigation: A Study Using HEC-RAS. *Water Resour Manage* (2025), 1-15. (17 January, 2025). <https://doi.org/10.1007/s11269-025-04094-w>
2. Meena, R.R., Singh, R.M., Soni, P. , Kumar, R. , Kumar, S. Fluoride removal using a rotating anode electro-coagulation reactor: Parametric optimization using response surface methodology, isotherms and kinetic studies, economic analysis and sludge characterization, *Journal of Environmental Management* (Elsevier), *Volume 370*, (2024). (November 2024), 122600, 1-13. <https://doi.org/10.1016/j.jenvman.2024.122600>
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4. Yadav, A., Singh, R.M. Spatio-Temporal Analysis and Prediction of Land Use and Land Cover in Jagdalpur Sub-Division of Bastar District in State of Chhattisgarh, India from 2012 to 2037. *J. Inst. Eng. India Ser. A* (2024) (16 Oct. 2024). <https://doi.org/10.1007/s40030-024-00849-7>
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7. Yadav, A., Singh, R.M. Spatio-temporal Estimation of Evapotranspiration and Runoff in Sub-Watersheds of a Basin Using ArcSWAT. *Natl. Acad. Sci. Lett.* **47**, 649–653 (2024) (9 Feb 2024). <https://doi.org/10.1007/s40009-024-01395-3>
8. Discussion of “Open-Channel Hydrodynamic Numerical Simulation of Topographically Uncharted River Based on Observational Data-Driven Method” by Guhan Li; Xiaohui Lei; Zhao Zhang; Lingzhong Kong; Jie Zhu; Ke Xu; Maomiao Huang; and Hao Wang
J. Water Resour. Plann. Manage (ASCE) (in Press)
9. Kumar, P., Shukla S. P., Behera S. N. and Singh, R.M. (2022). *A GIS-based route optimization approach for Municipal solid waste management. Indian Journal of Environmental Protection (IJEPE)* 42(13): 1616-1623: Vol. 42 Issue. 13 (Conference October 20-21,2022)

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<https://doi.org/10.1007/s12517-022-09892-9>
[May 28, 2022].
11. Singh, R. M. (2021). Discussion of “Resolving Conflicts between Irrigation Agriculture and Ecohydrology Using Many-Objective Robust Decision Making” by Yu Li and Wolfgang Kinzelbach, *Journal of Water Resources Planning and Management, ASCE (American Society of Civil Engineers)*, 147(7), May 2021 (online published first). [May 14, 2021]
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13. Prasad, A., Singh, R.M. & Duggal, S.K. (2021). Optimal Design of Barrage Profile on Anisotropic Soil Using Multi-Objective Optimization Approach. *Water Resour Manage* (Springer), 35, 2433-2448 [<https://doi.org/10.1007/s11269-021-02839-x>] [May 12, 2021]
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Books Edited

Environmental Processes and Management, Tools and Practices for Groundwater, *Springer, Water Science and Technology Library, (Springer) 2023, Volume 120*, <https://doi.org/10.1007/978-3-031-20208-7>

Editors: Prabhakar Shukla, Prachi Singh and Raj Mohan Singh

#Environmental Processes and Management, Tools and Practices, Water Science and Technology Library, Volume 91, Springer Nature 2020, [springer.com](https://www.springer.com) ISBN 978-3-030-38151-6

Editors: Raj Mohan Singh, Prabhakar Shukla and Prachi Singh

Book of Extended Abstracts, International Conference on Modelling of Environmental and Water Resources Systems (ICMEWRS-2017), *March 24-26th, 2017, HBTU Kanpur, India, ISSN: 978-93-85926-53-2., 272 pages*, Allied Publishers Pvt. Ltd. (ISBN-10 : 9385926535, ISBN-13 : 978-9385926532)

Editors: Dipteek Parmar, R.M. Singh. Amitabh Srivastava, Alok Sharma and R.K. Prasad

Book Chapters

1. Kumar, P., Shukla P. and Singh, R.M. (2023). Study of rising Surface Water Levels on Land Submergence and Groundwater” in Shukla, P., Singh, P., and Singh, R.M. (Eds.) Water Science and Technology Library (Springer), Volume 120, 2023. ISBN 81-7764-243-X & 81-7764-245-6; ISSN 0921-092X ISSN 1872-4663 (electronic), ISBN 978-3-031-20207-0; ISBN 978-3-031-20208-7 (eBook) <https://doi.org/10.1007/978-3-031-20208-7>
2. Shukla, P. and Singh, R.M. [2018] “Groundwater System Modelling and Sensitivity of Groundwater Level Prediction in Indo-Gangatic Alluvial Plains” In: Singh V., Yadav S., Yadava R. (eds) Groundwater. Water Science and Technology Library, 76: 55-66. Springer, Singapore. DOI: <https://doi.org/10.1007/978-981-10-5789-25>
3. Singh V., Singh R.M., Rawal N.R. (2018) Municipal Solid Waste Management with Uncertainty Analysis for Urban Cities. In: Singh V., Yadav S., Yadava R. (eds) Water Quality Management. Water Science and Technology Library, vol 79. Springer, Singapore. [[DOI: https://doi.org/10.1007/978-981-10-5795-3_32 [Print ISBN978-981-10-5794-6; Online ISBN978-981-10-5795-3]
4. Singh R. M. and Singh P. (2016). “Groundwater quality mapping and predictions using geospatial and soft computing techniques”. In S.

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 6. Singh, R.M. and Shilpi (2014). River Sedimentation Prediction Using Wavelet ANN and LS SVM. Chapter 77 in HYDRAULICS, WATER RESOURCES, COASTAL AND ENVIRONMENTAL ENGINEERING (Editors. H. L. Tiwari, S. Suresh and R. K. Jaiswal © MANIT Bhopal), Excellent Publishing House, Kishangarh, Vasant Kunj, New Delhi – 110070, (ISBN: 978–93 –84935–04–7) pp 820-828.
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Papers in Conferences Proceedings

International Conferences Proceedings

1. Yadav, A. and Singh, R.M. (2024). Assessment of Surface Runoff in the Macpherson Lake Catchment using SCS-CN and GIS Technique. In *International Water Conference for Sustainable Development Goals 2024 (IWCSGD 2024)*, 22nd to 23rd March, 2024, Civil Engg. Department MANIT Bhopal, India.
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4. Kumar, P. and Singh, R.M. (2023). SIMULATION AND REMEDIATION OF GROUNDWATER CONTAMINANT USING PERMEABLE REACTIVE BARRIER, in 3rd International Conference on River Health: Assessment and Restoration (RHAR 2023) October 12-14, 2023. IIT (BHU) Varanasi. [id 3666]
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6. Yadav, A. and Singh R.M. (2023), “River Modelling for Flood Mitigation using HEC-RAS”, in abstract proceedings of 3rd International Conference on River Corridor Research and Management (RCRM 2023), Organised by Indian Institute of Technology Jammu and Indian Institute of Technology Guwahati, India from 15th to 17th June 2023, P-38 ./Online (Virtual)
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9. Kumar, P. and Singh, R.M. (2022). *Municipal Solid Waste Management using GIS based Optimization,* in CHEM-CONFLUX-22, an International Conference on Technological Interventions for Sustainability, jointly organised by Chemical Engineering Department, Motilal Nehru National Institute of Technology and School of Chemical Engineering, Universiti Sains Malaysia which was held at Motilal Nehru National Institute of Technology Allahabad, Prayagraj during April 14-16, 2022.
10. Verma, R; Basu, D; and Singh, R.M. (2021). Water Quality Time Series Modeling using Statistical and Ensemble Models. **International Conference on Advances in Chemical, Biological and Environmental Engineering (ICACBEE-2021), MNIT, Jaipur, April 23-24, 2021** (ICACBEE-2021-OP-060).
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12. Asha; Singh, R.M. and Rawal, N.R. (2021). Groundwater Contamination Attenuation with Permeable Reactive Barrier International Conference on Water and Environment (ICWE -2021), MANIT Bhopal, March 22-23, 2021.
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24. Shukla P. and Singh R.M. (2017) "Changes in Land Use and Land Cover in Sai-Gomti Interfluvial Region". *Proceedings of International Conference on modeling of environmental and water resources systems (ICMEWRS-2017), March 24-26th, 2017, HBTU Kanpur, India. Page 125, ISSN: 978-93-85926-53-2.*
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