

PUBLICATIONS:

International Referred Journal SCI/SCIE (Cumulative Impact Factor: 82.13)

1. Yadav, P., & **Samadder, S. R. (2018)**. A critical review of the life cycle assessment studies on solid waste management in Asian countries. *Journal of Cleaner Production*, 185, 492-515 (**Impact Factor: 5.715**).
2. Prabhakar, R., & **Samadder, S. R. (2018)**. Low cost and easy synthesis of aluminium oxide nanoparticles for arsenite removal from groundwater: A complete batch study. *Journal of Molecular Liquids*, 205, 192-201 (**Impact Factor: 3.648**).
3. Karan, S. K., & **Samadder, S. R (2018)**. Improving accuracy of long-term land-use change in coal mining areas using wavelets and Support Vector Machines. *International Journal of Remote Sensing*, 39(1), 84-100 (**Impact Factor: 1.724**).
4. Yadav, P. and **Samadder, S. R. (2018)**. Environmental impact assessment of municipal solid waste management options using life cycle assessment: a case study. *Environmental Science and Pollution Research*, 25(1), pp. 838-854 (**Impact Factor: 2.741**).
5. Prabhakar, R., **Samadder, S. R.** & Jyotsana (2017). Aquatic and terrestrial weed mediated synthesis of iron nanoparticles for possible application in wastewater remediation. *Journal of Cleaner Production*, 168, 1201–1210 (**Impact Factor: 5.715**).
6. Karan, S. K., & **Samadder, S. R. (2017)**. Evaluation of geotechnical properties of overburden dump for better reclamation success in mining areas. *Environmental Earth Sciences*, 76(22), 770 (**Impact Factor: 1.569**).
7. Kumar, A., & **Samadder, S. R. (2017)**. A review on technological options of waste to energy for effective management of municipal solid waste. *Waste Management*, 69, 407-422 (**Impact Factor: 4.030**).
8. Kumar, A., & **Samadder, S. R. (2017)**. An empirical model for prediction of household solid waste generation rate—A case study of Dhanbad, India. *Waste Management*, 68, 3-15 (**Impact Factor: 4.030**).
9. Karan, S. K., and **Samadder, S. R. (2017)**. “Dual-Tree Complex Wavelet Transform based image enhancement for accurate long term change assessment in coal mining areas”. *Geocarto International*, <http://dx.doi.org/10.1080/10106049.2017.1333534> (**Impact Factor: 1.646**).

10. Yadav, P. and **Samadder, S. R. (2017)**. “Assessment of Applicability Index for Better Management of Municipal Solid Waste: A Case Study of Dhanbad, India”. *Environmental Technology*, pp. 1-16 (**Impact Factor: 1.751**).
11. Kapse, G., Patolia, P., & **Samadder, S. R. (2017)**. “Characterisation of coal washery effluent and optimization of coagulation behavior of Moringa oleifera seed as a coagulant”. *Environmental Monitoring and Assessment*, 189 (3), 133 (**Impact Factor: 1.687**).
12. Yadav, P. and **Samadder, S. R. (2017)**. “A Global Prospective of Income Distribution and Its Effect on Life Cycle Assessment of Municipal Solid Waste Management: A Review”. *Environmental Science and Pollution Research*, 24(10), pp. 9123-9141 (**Impact Factor: 2.741**).
13. **Samadder, S. R.**, Prabhakar, R., Khan, D., Kishan, D., & Chauhan, M. S. (2016). Analysis of the contaminants released from municipal solid waste landfill site: A case study. *Science of the Total Environment*. 580, 593 – 601. <http://dx.doi.org/10.1016/j.scitotenv.2016.12.003> (**Impact Factor: 4.900**).
14. Karan, S. K., **Samadder, S. R.**, Maiti, S. K. (2016). “Assessment of the Capability of Remote Sensing and GIS Techniques for Monitoring Reclamation Success in Coal Mine Degraded Lands”. *Journal of Environmental Management*, 182, pp. 272 – 283 (**Impact Factor: 4.010**).
15. Karan, S. K., and **Samadder, S. R. (2016)**. “Accuracy of Land use Change Detection using Support Vector Machine and Maximum Likelihood Techniques for Open Cast Coal Mining Areas”. *Environmental Monitoring and Assessment*, 188:486 (**Impact Factor: 1.687**).
16. Kumar, A., **Samadder, S. R.** and Elumalai, S.P., (2016). “Recovery of trace and heavy metals from coal combustion residues for reuse and safe disposal: A Review.” *JOM*, DOI: 10.1007/s11837-016-1981-3 (**Impact Factor: 1.860**).
17. Karan, S. K., and **Samadder, S. R. (2016)**. “Reduction of spatial distribution of risk factors for transportation of contaminants released by coal mining activities.” *Journal of environmental management*, 180, 280-290 (**Impact Factor: 4.010**).
18. Khan, D., and **Samadder, S. R. (2016)**. “Allocation of solid waste collection bins and route optimisation using geographical information system: A case study of Dhanbad City, India.” *Waste Management & Research*, doi: 10.1177/0734242X16649679 (**Impact Factor: 1.803**).
19. Khan, D., Kumar, A., and **Samadder, S. R. (2016)**. “Impact of socioeconomic status on municipal solid waste generation rate.” *Waste Management*, 49, 15-25 (**Impact Factor: 4.030**).

20. Lata, S., and **Samadder, S. R. (2016)**. “Removal of arsenic from water using nano adsorbents and challenges: a review.” *Journal of environmental management*, 166, 387-406 (**Impact Factor: 4.010**).
21. Khan, D., and **Samadder, S. R. (2015)**. “A simplified multi-criteria evaluation model for landfill site ranking and selection based on AHP and GIS.” *Journal of Environmental Engineering and Landscape Management*, 23(4), 267-278 (**Impact Factor: 0.635**).
22. Kumar, A., and **Samadder, S. R. (2015)**. “Analysis of the leaching behavior of elements from coal combustion residues for better management.” *Environmental monitoring and assessment*, 187(6), 1-12 (**Impact Factor: 1.687**).
23. Lata, S., Singh, P. K., and **Samadder, S. R. (2015)**. “Regeneration of adsorbents and recovery of heavy metals: a review.” *International Journal of Environmental Science and Technology*, 12(4), 1461-1478 (**Impact Factor: 1.915**).
24. **Samadder, S. R.**, Nagesh Kumar, D., and Holden, N. M. (2014). “An Empirical Model to Predict Arsenic Pollution Affected Life Expectancy.” *Population and Environment*, 36(2), 219-233 (**Impact Factor: 1.766**).
25. Debishree Khan and **S. R. Samadder (2014)**. “Application of GIS in Landfill Siting for Municipal Solid Waste.” *International Journal of Environmental Research and Development*. ISSN 2249-3131, 4(1), 37-40.
26. Sneha Lata and **S. R. Samadder (2014)**. “Removal of Heavy Metals Using Rice Husk: A Review”. *International Journal of Environmental Research and Development*. ISSN 2249-3131, 4(2), 165-170.
27. Debishree Khan and **S. R. Samadder (2014)**. “Municipal solid waste management using Geographical Information System aided methods: A mini review.” *Waste Management and Research*, 32(11), 1049-1062 (**Impact Factor: 1.803**).
28. Pooja Yadav and **S. R. Samadder (2014)**. “Life cycle assessment of solid waste management options: A Review”. *Recent Research in Science and Technology*, 6(1), 113-116. ISSN: 2076-5061.
29. Tang, J., Macdonald, S., Peng, X., **Samadder, S. R.**, Murphy, T. M., and Holden, N. M (2011). “Application of SWAT model to better understand Cryptosporidium oocysts transport in small ungauged agricultural catchments”. *Water Research*, Elsevier, Vol. 45, pp. 3665-3680 (**Impact Factor: 6.942**).

30. **Samadder, S. R (2011)**. “Impact of Arsenic Pollution on Spatial Distribution of Human Development Index (HDI)”. KSCE Journal of Civil Engineering, Vol. 15, No. 6, pp. 975-982 (**Impact Factor: 0.812**).
31. **Samadder, S. R.**, Ziegler, P., Murphy, T. M., and Holden, N. M (2010). “Spatial Distribution of Risk Factors for Cryptosporidium spp. Transport in an Irish Catchment”. International Journal of Water and Environment Research (Published by Water and Environment Federation), Vol. 82, No. 8, pp. 750-758 (**Impact Factor: 0.910**).
32. **Samadder, S. R (2010)**. “Impact of Arsenic Pollution in Drinking Water on Life Expectancy: A GIS Approach”. KSCE Journal of Civil Engineering (Springer Publication), Vol. 14, No. 5, pp. 681-691 (**Impact Factor: 0.812**).
33. **Samadder, S. R.**, and Subbarao, C. (2007) “A GIS Approach of Delineation and Risk Assessment of Areas Affected by Arsenic Pollution in Drinking Water.” J. Environmental Engineering, ASCE, Vol. 133, No. 7, pp. 742-749 (**Impact Factor: 1.541**).

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34. Ghosh, S., Prabhakar, R., and **Samadder, S. R.**, (2018). “Assessment of aluminium oxide nanoparticles for arsenic removal” February 12 – 14, 2018. 4th International Conference on Environment and Ecology (ICEE 2018). Gauhati University, Guwahati, Assam, India.
35. Aryan, Y., and **Samadder, S. R.**, (2018). “Assessment of environmental impacts using LCA for recycling of polyethylene and polyethylene terephthalate” February 12-14, 2018. 4th International Conference on Environment and Ecology (ICEE 2018). Gauhati University, Guwahati, Assam, India.
36. Prabhakar, R., **Samadder, S.R.**, and Jyotsana (2018). “Efficiency of *Eichhornia crassipes* synthesized iron nanoparticles for nitrate and phosphate removal” February 12-14, 2018. 4th International Conference on Environment and Ecology (ICEE 2018). Gauhati University, Guwahati, Assam, India.
37. Prabhakar, R., **Samadder, S.R.**, and Jyotsana (2018). “Efficiency of *Lantana camara* synthesized iron nanoparticles for nitrate and phosphate removal” January 11-13, 2018. International Conference on Mother Earth: Environmental Crisis & Sustainable Strategies. Department of Environmental Science, University of Burdwan.

38. Prabhakar, R., **Samadder, S.R.**, and Jyotsana (2017). "Nitrate and phosphate removal efficiency of *Azadirachta indica* Synthesized Iron Nanoparticles" June 28-30, 2017. National Conference on Sustainable Advanced Technologies for Environment Management (SATEM-2017). Indian Institute of Engineering Science and Technology, Shibpur, Howrah.
39. Prabhakar, R., **Samadder, S.R.**, and Jyotsana (2016). "Nitrate and phosphate removal efficiency of phyto-genic iron nanoparticles from water and wastewater" December 17-18, 2016. National Seminar on Environment and Development in Eastern India (Status, Issues and Challenges). Ranchi University, Ranchi.
40. S. Lata and **S. R. Samadder (2014)** "A Comparative Study of Arsenic Removal Techniques for Rural Areas." **Dec. 18-20, 2014**, 19th Conference on Hydraulics, Water Resources & Environmental Engineering., Maulana Azad National Institute of Technology, Bhopal, India.
41. D. Khan and **S. R. Samadder (2014)**. "How Geospatial Technology Helps in Landfill Site Selection." **December 16-18, 2014**. 4th International Conference, World Science Congress. Gandhi Bhaban of Jadavpur University, Kolkata.
42. Sneha Lata and **S. R. Samadder (2014)** "Removal of Heavy Metals from Drinking Water Using Coconut Husk". **September 15-16, 2014**, Vol. 5 (4) ISSN: 2157-7587, Proceedings of 3rd International Conference on Hydrology and Meteorology, HICC Hyderabad, India.
43. Ashvani Kumar and **S. R. Samadder (2014)**. "Groundwater Contamination by Trace Metals from Coal-Based Thermal Power Plants". **January 23-24, 2014**. International Conference on Emerging Challenges and Issues in Environmental Protection. Raipur Institute of Technology Raipur, Chhattisgarh, India.
44. Yadav, P., **Samadder, S. R. (2014)**. "Life Cycle Assessment of Solid Waste Management Options: A Review". **January 23-24, 2014**. International Conference on Emerging Challenges and Issues in Environmental Protection. Raipur Institute of Technology Raipur, Chhattisgarh, India.
45. Sneha Lata and **S. R. Samadder (2014)**. "Removal of Heavy Metals Using Rice Husk: A Review". **January 4-5, 2014**. 2nd International Conference of Krishi Sanskriti on Sustainable Innovative techniques in Civil and Environmental Engineering (SITCEE-2014), Jawaharlal Nehru University, New Delhi, India.
46. A. Kumar and **S. R. Samadder (2013)**. "Trace and Heavy Metals in Fly Ash and Bottom Ash: A Review". **November 11-13, 2013**. International Conference: Harmony 2013 of National Environmentalist Association, Ranchi, Jharkhand, India on Harmony with Nature in Context of Ecotechnological Investigation and

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48. Sneha Lata and **S. R. Samadder (2013)**. “Arsenic Detection Techniques and Their Drawbacks” August 16-18, 2013. **August 16-18, 2013**. International Conference on Conserving Biodiversity for Sustainable Development (INCCBSD-2013). National Institute of Technology, Rourkela, Odisha, India.
49. Khan, D., Vinod, B. V., and **Samadder, S. R. (2012)**. “Impact of Municipal Solid Waste Leachates on Groundwater and Investigate the Effectiveness of Various Geoliner to Control the Leachate Flow Behaviour.” **November 2-4, 2012**. 4th International Conference of National Environmentalists Association on Anthropogenic Impact on Environment and Conservation Strategy, Ranchi, India.
50. *McDonald, S., Berzano, M., Ziegler, P., Peng, X., Samadder, S. R.,* Murphy, T., and Holden, N. M. (2009). How sensitive is qualitative risk assessment at the small agricultural catchment scale? November 27, 2009. Joint meeting of the Irish Society of Parasitology and British Association of Veterinary Parasitologists. Central Veterinary Research Laboratory, Backweston Campus, Celbridge, Co. Kildare, Ireland.
51. **Samadder, S. R.**, Peng, X, McDonald, S, Murphy, T. M, Berzano, M, Ziegler, P.E, Holden, N. M (2009). Relative Risk of *Cryptosporidium* Spp. Transport in an Irish Catchment. October 11-15, 2009. 3rd International Giardia and Cryptosporidium Conference. Orvieto, Italy.
52. X. Peng., S. McDonald., T. Murphy., M. Berzano., P. Ziegler., **S. R. Samadder.**, and N. M. Holden (2009). The transport and attachment of *Cryptosporidium parvum* oocysts in main Irish soils. June 15-19, 2009. 18th International Soil Tillage Research Organization. Izmir, Turkey.
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54. **Samadder, S. R.**, and *Subbarao, C.* (2007) “Capabilities of GIS in Risk Assessment due to Arsenic Pollution in Drinking Water.” Conference on “Current Trends in Remote Sensing and GIS Applications, February 15-17, 2007, IIT Kharagpur, India.

Paper published in national conference:

55. Yadav, P., and **Samadder, S. R.** (2014). “A Comparative Study of Composting and Land filling of Municipal Solid Wastes Using Life Cycle Assessment Technique: A Review”. January 30 to February 1, 2014. National Conference on Environmental pollution and protection. National Institute of Technology, Durgapur, India.
56. **Samadder, S. R.**, and Subbarao, C. (2014). “Effect of Arsenic Pollution in Groundwater on Life Expectancy: A GIS Approach”. March 28-29, 2014. National Conference on “Water and its Sustainability in Mining and Other Environment: Vision 2050 (WASME 2014”, ISBN 978-93-5156-850-6. IIT (ISM) Dhanbad, India.

Proceedings Published

57. Proceedings of the Two Days Training Programme for Field Engineers in Infrastructural Development edited by M S Chauhan, S Rokade, K Dharavath and **S R Samadder**, held in April 2010, Bhopal, **India**.
58. Pal, A. K., Maiti, S. K., Gupta, S. K., Sinha, A., Samadder, S. R. and Mishra, B. K. (2012). Edited the Training module of 3-Days Training Program for Executives of Drinking Water and Sanitation Department, Ranchi on “**Water and Wastewater Treatment And Management**”; 7-9 November, 2012, Department of Environmental Science and Engineering, IIT (ISM), Dhanbad.