

List of Publications of Dr. S. R. Samadder (Updated on 12.05.2025)

PATENTS:

❖ Patent Granted

1. **Samadder, S. R. & Kapse, G. V. (2018).** A Process for the Preparation of Bio-Coagulant Using *Moringa Oleifera* Seed-Defatted Cake for the Removal of Fine Particles from Coal Washery Effluent (**Granted in 2021**). (Patent No. 384138).

❖ Patent Published

2. **Samadder, S.R. & Kumari, R. (2024).** An integrated process for copper extraction from waste-printed circuit boards (Application No.202431072102).
3. **Samadder, S.R. & Kumari, P. (2024).** A Process of Discharging Spent-Lithium Cobalt Oxide Batteries Using Ultrasonic-Assisted Partial Immersion Method (Application No. 202431079756).
4. **Samadder, S.R. & Kumari, R. (2024).** A process of valorization of waste-printed circuit boards through debromination and metal enrichment (Application No. 202531006628).
5. **Samadder, S. R., Kapse, G. V., Ansari, K., Kumar, D. Ghatak, S. A. (2025).** A system for Real-Time Treatment of coal washery Effluent with Bio-Coagulant under continuous flow condition (Application No. 202531024222).
6. **Samadder, S. R., Kapse, G. V., Ansari, K., Kumar, D. Ghatak, S. A. (2025).** Bio-coagulant from *Brassica nigra* seed defatted cake for the treatment of Coal Washery Effluents and a Process for the Preparation thereof (Application No. 202531024221).
7. **Samadder, S. R., Kapse, G. V., Ansari, K., Kumar, D. Ghatak, S. A. (2025).** A Process for the Preparation of Natural Preservative to Inhibit Microbial Growth in Bio-Coagulant (202531024226).
8. **Samadder, S. R., Kapse, G. V., Ansari, K., Kumar, D. Ghatak, S. A. (2025).** Bio-coagulant from *Moringa oleifera* and *Linum usitatissimum* for the Treatment of Coal Washery and a process for the preparation thereof (Application No. 202531025028)

PUBLICATIONS:

Publications in SCI/SCIE Journals

Google Scholar:

<https://scholar.google.com/citations?user=OUZKzWEAAAAJ&hl=en&oi=ao>

ORCID ID: <https://orcid.org/0000-0002-0037-7030>

Total citations up to 12.05.2025	5620
Cumulative Impact Factor	324.76
Average Impact Factor Per Paper	5.44
Total Publication in Q1 Journal	32
Total Publication in Q2 Journal	21
Total Publication in Q3 Journal	7
Total Publication in Q4 Journal	0
<i>h</i> -index (Google Scholar, Scopus, Web of Science)	31, 27, 25
Total No. of SCI/SCIE Publications	60

1. Kumari, R., Prabhakar, R., and **Samadder, S. R. (2025)**. Enhanced copper extraction from waste printed circuit boards using glycine after supercritical methanol pre-treatment: Process optimization, leaching kinetics, and thermodynamic analysis *Journal of Waste Management*, 193 (2025): 551-560. <https://doi.org/10.1016/j.wasman.2024.12.037> (Impact Factor: 7.1) [SJR: Q1] SCIE.
2. Kumari, P., & **Samadder, S. R. (2024)**. Urban mining for graphite recovery from retired lithium-ion batteries and its valorization to valuable graphene materials: A comprehensive characterization study. *Journal of Energy Storage*, 102, 113873. Doi: <https://doi.org/10.1016/j.est.2024.113873>. (Impact Factor: 8.9) [SJR: Q1] SCIE.
3. Singh, V., and **Samadder, S. R. (2024)**. A novel approach for identification of environmentally and economically suitable locations for establishment of wastewater treatment plants. *Water Sci Technol*, 90 (2): 413–431. Doi: <https://doi.org/10.2166/wst.2024.215> (Impact Factor: 2.5) [SJR: Q2] SCIE.
4. Kumari, R., & **Samadder, S. R. (2023)**. Evaluation of the recycling potential of obsolete mobile phones through secondary material resources identification: A comprehensive characterisation study. *Journal of Environmental Management*, 345, 118550. <https://doi.org/10.1016/j.jenvman.2023.118550>. 115887 (Impact Factor: 8.0) [SJR: Q1] SCIE.
5. Singh, V., Sardar, P., **Samadder, S. R.**, Kumar, D., and Villuri, V. G. K. (2023). Predicting the Future Landscape of Dhanbad District: An Analysis of Land-Use Change and Urban Sprawl through Cloud Computing and Neural Networks, Accepted. *Environment Development and Sustainability*. (Impact Factor: 4.7) [SJR: Q2] SCIE.
6. Singh, V., Sardar, P., & **Samadder, S. R. (2023)**. Landfill site selection in a mining dominated area using a fuzzy AHP and DRASTIC vulnerability based multicriteria decision analysis: a case study of Dhanbad, India. *Environmental Monitoring and Assessment*, 195(10), 1-19. (Impact Factor: 2.9) [SJR: Q2] SCIE.
7. Sardar, P., & **Samadder, S. R. (2023)**. Long-term ecological vulnerability assessment of Indian Sundarban region under present and future climatic conditions under CMIP6 model. *Ecological Informatics*, 76, 102140. <https://doi.org/10.1016/j.ecoinf.2023.102140> (Impact Factor: 5.9) [SJR: Q1] SCIE.
8. Kumar, A., & **Samadder, S. R. (2023)**. Development of lower heating value prediction models and estimation of energy recovery potential of municipal solid waste and RDF incineration. *Energy*, 274, 127273. <https://doi.org/10.1016/j.energy.2023.127273> (Impact Factor: 9.0) [SJR: Q1] SCIE.
9. Aryan, Y., Kumar, A., & **Samadder, S. R. (2023)**. Environmental and economic assessment of waste collection and transportation using LCA: A case study. *Environmental Research*, 231, 116108. (Impact Factor: 7.7) [SJR: Q1] SCIE.
10. Singh, V., Karan, S. K., Singh, C., & **Samadder, S. R. (2023)**. Assessment of the capability of SWAT model to predict surface runoff in open cast coal mining areas. *Environmental*

Science and Pollution Research, 30(14), 40073-40083. <https://doi.org/10.1007/s11356-022-25032-y> (Impact Factor: 5.8) [SJR: Q1] SCIE.

11. Kumar, A., Bhardwaj, S., & **Samadder, S. R.** (2023). Evaluation of methane generation rate and energy recovery potential of municipal solid waste using anaerobic digestion and landfilling: A case study of Dhanbad, India. *Waste Management & Research*, 41(2), 407-417. <https://doi.org/10.1177/0734242X221122494> (Impact Factor: 3.7) [SJR: Q2] SCIE
12. Kumari, P., & **Samadder, S. R.** (2022). Valorization of carbonaceous waste into graphene materials and their potential application in water & wastewater treatment: a review. *Materials Today Chemistry*, 26, 101192. Doi: <https://doi.org/10.1016/j.mtchem.2022.101192>. (Impact Factor: 6.7) [SJR: Q1] SCIE.
13. Kumari, R., & **Samadder, S. R.** (2022). A critical review of the pre-processing and metals recovery methods from e-wastes. *Journal of Environmental Management*, 320, 115887. Doi: <https://doi.org/10.1016/j.jenvman.2022.115887> (Impact Factor: 8.0) [SJR: Q1] SCIE.
14. Kumar, A., & **Samadder, S. R.** (2022). Assessment of energy recovery potential and analysis of environmental impacts of waste to energy options using life cycle assessment. *Journal of Cleaner Production*. (Impact Factor: 9.8) [SJR: Q1] SCIE.
15. Singh, C., Karan, S. K., Sardar, P., & **Samadder, S. R.** (2022). Remote sensing-based biomass estimation of dry deciduous tropical forest using machine learning and ensemble analysis. *Journal of Environmental Management*, 308, 114639. Doi: <https://doi.org/10.1016/j.jenvman.2022.114639> (Impact Factor: 8.0) [SJR: Q1] SCIE.
16. Prabhakar, R., Ghosh, S., Malik, A., & **Samadder, S. R.** (2021). Efficient loading of nano Mn particles on calcined laterite soil (Lt-nMn) for higher removal of As(III) ions from groundwater: Adsorption and eco-scale analysis. *Environmental Science and Pollution Research*. Doi: <https://doi.org/10.1007/s11356-021-18136-4> (Impact Factor: 5.8) [SJR: Q1] SCIE.
17. Kapse, G., & **Samadder, S. R.** (2021). Moringa oleifera seed defatted press cake-based biocoagulant for the treatment of coal beneficiation plant effluent. *Journal of Environmental Management*. Doi: <https://doi.org/10.1016/j.jenvman.2021.113202> (Impact Factor: 8.0) [SJR: Q1] SCI.
18. Sardar, P., & **Samadder, S. R.** (2021). Understanding the dynamics of landscape of greater Sundarban area using multi-layer perceptron Markov chain and landscape statistics approach. *Ecological Indicators*, 121, 106914. Doi: <https://doi.org/10.1016/j.ecolind.2020.106914> (Impact Factor: 7.0) [SJR: Q1] SCIE
19. Prabhakar, R., & **Samadder, S. R.** (2020). Effective immobilization and reduction in bioavailability of Cd in a *L. succinea* growing in contaminated sediment by the application of alkali synthesized fly ash-based zeolite (FABZ). *Microporous and Mesoporous Materials*, 110416. Doi: <https://doi.org/10.1016/j.micromeso.2020.110416>. (Impact Factor: 4.8) [SJR: Q2] SCIE.
20. Prabhakar, R., & **Samadder, S. R.** (2020). Use of adsorption-influencing parameters for designing the batch adsorber and neural network-based prediction modelling for the aqueous arsenate removal using combustion synthesised nano-alumina. *Environmental*

Science and Pollution Research, 1-18. Doi: <https://doi.org/10.1007/s11356-020-08975-y>. (Impact Factor: 5.8) [SJR: Q1] SCIE.

21. Kumar, A., & **Samadder, S. R.** (2020). Performance evaluation of anaerobic digestion technology for energy recovery from organic fraction of municipal solid waste: A review. *Energy*, 117253. Doi: <https://doi.org/10.1016/j.energy.2020.117253> (Impact Factor: 9) [SJR: Q1] SCIE.
22. Karan, S. K., Ghosh, S., & **Samadder, S. R.** (2019). Identification of spatially distributed hotspots for soil loss and erosion potential in mining areas of Upper Damodar Basin–India. *CATENA*, 182, 104144. Doi: <https://doi.org/10.1016/j.catena.2019.104144>. (Impact Factor: 5.4) [SJR: Q1] SCIE.
23. Lata, S., Prabhakar, R., Adak, A., & **Samadder, S. R.** (2019). As (V) removal using biochar produced from an agricultural waste and prediction of removal efficiency using multiple regression analysis. *Environmental Science and Pollution Research*, 1-14. Doi: <https://doi.org/10.1007/s11356-019-06300-w>. (Impact Factor: 5.8) [SJR: Q2] SCIE.
24. Aryan, Y., Yadav, P., & **Samadder, S. R.** (2019). Life Cycle Assessment of the existing and proposed plastic waste management options in India: A case study. *Journal of Cleaner Production*. 211, 1268-1283. Doi: <https://doi.org/10.1016/j.jclepro.2018.11.236>. (Impact Factor: 9.8) [SJR: Q1] SCIE.
25. Ghosh, S., Prabhakar, R., and **Samadder, S. R.** (2019). Performance of γ -aluminium oxide nanoparticles for arsenic removal from groundwater. *Clean Technologies and Environmental Policy*. 1-18. Doi: <https://doi.org/10.1007/s10098-018-1622-3> (Impact Factor: 4.2) [SJR: Q2] SCIE.
26. Kumar, A., **Samadder, S. R.**, & Kumar, V. (2019). Assessment of groundwater contamination risk due to fly ash leaching using column study. *Environmental Earth Sciences*, 78(1), 18. Doi: <https://doi.org/10.1007/s12665-018-8009-y>. (Impact Factor: 2.8) [SJR: Q2] SCI.
27. Khan, D., Kumar, A., and **Samadder, S. R.** (2018). Public acceptance study of the environmentally suitable landfill sites: A case study. *Current Science*. 115(11), 2122. Doi: [10.18520/cs/v115/i11/2122-2129](https://doi.org/10.18520/cs/v115/i11/2122-2129). (Impact Factor: 1.1) [SJR: Q2] SCIE.
28. Karan, S. K., and **Samadder, S. R.** (2018). “Dual-Tree Complex Wavelet Transform based image enhancement for accurate long-term change assessment in coal mining areas”. *Geocarto International*. 33, pp. 1084-1094. <http://dx.doi.org/10.1080/10106049.2017.1333534>. (Impact Factor: 3.3) [SJR: Q2] SCIE.
29. Karan, S. K. and **Samadder, S. R.** (2018). A comparison of different land-use classification techniques for accurate monitoring of degraded coal mining areas. *Environmental Earth Sciences*. 77:713. Doi: <https://doi.org/10.1007/s12665-018-7893-5> (Impact Factor: 2.8) [SJR: Q2] SCI.
30. Kumar, A., **Samadder, S. R.**, Kumar, N. and Singh, C. (2018). Estimation of the generation rate of different types of plastic wastes and possible revenue recovery from informal recycling. *Waste Management*, 79, pp.781-790. Doi: <https://doi.org/10.1016/j.wasman.2018.08.045> (Impact Factor: 7.1) [SJR: Q1] SCIE.

31. Karan, S.K, **Samadder, S. R.** and Singh, V (2018). Groundwater vulnerability assessment in degraded coal mining areas using AHP-Modified Drastic model. *Land Degradation & Development*. 29(8), 2351-2365. Doi: <https://doi.org/10.1002/ldr.2990> (Impact Factor: 3.6) [SJIR: Q2] SCI.
32. Yadav, P. and **Samadder, S. R.** (2018). “Assessment of Applicability Index for Better Management of Municipal Solid Waste: A Case Study of Dhanbad, India”. *Environmental Technology*. 39, 1481-1496 doi: <https://doi.org/10.1080/09593330.2017.1332104> (Impact Factor: 2.2) [SJIR: Q2] SCI.
33. 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 doi: <https://doi.org/10.1016/j.jclepro.2018.02.298> (Impact Factor: 9.8) [SJIR: Q1] SCIE.
34. 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 doi: <https://doi.org/10.1016/j.molliq.2017.11.173> Impact Factor: 5.3) [SJIR: Q2] SCI.
35. 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. Doi: <https://doi.org/10.1080/01431161.2017.1381355> (Impact Factor: 3.0) [SJIR: Q2] SCI.
36. 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, 838-854. Doi: <https://doi.org/10.1007/s11356-017-0439-7> (Impact Factor: 5.8) [SJIR: Q1] SCIE.
37. 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. Doi: <https://doi.org/10.1016/j.jclepro.2017.09.063> Impact Factor: 9.8) [SJIR: Q1] SCIE.
38. Karan, S. K., Kumar, A., & **Samadder, S. R.** (2017). Evaluation of geotechnical properties of overburden dump for better reclamation success in mining areas. *Environmental Earth Sciences*, 76(22), 770. Doi: <https://doi.org/10.1007/s12665-017-7116-5> (Impact Factor: 2.8) [SJIR: Q2] SCI.
39. 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. Doi: <https://doi.org/10.1016/j.wasman.2017.08.046> (Impact Factor: 7.1) [SJIR: Q1] SCIE.
40. 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. Doi: <https://doi.org/10.1016/j.wasman.2017.07.034> (Impact Factor: 7.1) [SJIR: Q1] SCIE.

41. 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, 9123-9141. Doi: <https://doi.org/10.1007/s11356-017-8441-7> (Impact Factor: 5.8) [SJIR: Q1] SCIE.
42. 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. Doi: <https://doi.org/10.1007/s10661-017-5844-3> (Impact Factor: 2.9) [SJR: Q3] SCIE.
43. **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. Doi: <http://dx.doi.org/10.1016/j.scitotenv.2016.12.003> (Impact Factor: 8.2) [SJR: Q1] SCI.
44. 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. Doi: <https://doi.org/10.1016/j.jenvman.2016.07.070> (Impact Factor: 8.0) [SJR: Q1] SCI.
45. 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. Doi: <https://doi.org/10.1007/s10661-016-5494-x> (Impact Factor: 2.9) [SJR: Q3] SCIE.
46. 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*, 68, 2413-2417. DOI: <https://doi.org/10.1007/s11837-016-1981-3> (Impact Factor: 2.1) [SJR: Q2] SCI.
47. 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. Doi: <https://doi.org/10.1016/j.jenvman.2016.05.042> (Impact Factor: 8.0) [SJR: Q1] SCI.
48. 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*, 34, 666-676. doi: <https://doi.org/10.1177/0734242X16649679> (Impact Factor: 3.7) [SJR: Q2] SCIE.
49. Khan, D., Kumar, A., and **Samadder, S. R.** (2016). "Impact of socioeconomic status on municipal solid waste generation rate." *Waste Management*, 49, 15-25. Doi: <https://doi.org/10.1016/j.wasman.2016.01.019> (Impact Factor: 7.1) [SJR: Q1] SCI.
50. 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. Doi: <https://doi.org/10.1016/j.jenvman.2015.10.039> (Impact Factor: 8.0) [SJR: Q1] SCI.
51. 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. Doi: <https://doi.org/10.3846/16486897.2015.1056741> (Impact Factor: 1.06) [SJR: Q3] SCIE

52. 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. Doi: <https://doi.org/10.1007/s10661-015-4605-4> (Impact Factor: 2.9) [SJR: Q3] SCIE.
53. 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. Doi: <https://doi.org/10.1007/s13762-014-0714-9> (Impact Factor: 3.0) [SJR: Q2] SCIE.
54. **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. Doi: <https://doi.org/10.1007/s11111-014-0212-5> (Impact Factor: 3.2) [SJR: Q1] SSCI.
55. Khan, D. and **Samadder, S. R.** (2014). "Municipal solid waste management using Geographical Information System aided methods: A mini review." *Waste Management and Research*, 32(11), 1049-1062. Doi: <https://doi.org/10.1177/0734242X14554644> (Impact Factor: 3.7) [SJR: Q2] SCIE.
56. Tang, J., Macdonald, S., Peng, X., **Samadder, S. R.**, Murphy, T. M., and Holden, N. M. (2011). "Modelling Cryptosporidium oocysts transport in small ungauged agricultural catchments". *Water Research*, Elsevier, Vol. 45, pp. 3665-3680. Doi: <https://doi.org/10.1016/j.watres.2011.04.013> (Impact Factor: 11.5) [SJR: Q1] SCI.
57. **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. Doi: <https://doi.org/10.1007/s12205-011-1046-7> (Impact Factor: 2.2) [SJR: Q3] SCIE.
58. **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". *Water Environment Research*, Vol. 82, No. 8, pp. 750-758. Doi: <https://doi.org/10.2175/106143010X12609736966649> Impact Factor: 2.5) [SJR: Q3] SCI.
59. **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. Doi: <https://doi.org/10.1007/s12205-010-0892-z> (Impact Factor: 1.9) [SJR: Q2] SCIE.
60. **Samadder, S. R.**, and Subbarao, C. (2007) "A GIS Approach of Delineation and Risk Assessment of Areas Affected by Arsenic Pollution in Drinking Water." *Journal of Environmental Engineering*, ASCE, Vol. 133, No. 7, pp. 742-749. Doi: [https://doi.org/10.1061/\(ASCE\)0733-9372\(2007\)133:7\(742\)](https://doi.org/10.1061/(ASCE)0733-9372(2007)133:7(742)) (Impact Factor: 1.6) [SJR: Q3] SCI.

International Conference

1. **Samadder, S. R., & Kumar, A. (2025).** Energy recovery potential and analysis of environmental impacts of waste to energy options: A case study of Dhanbad, India. Environ 2025, University College Dublin, Ireland.
2. Sardar, P., & **Samadder, S. R. (2022).** Projecting the change in niche width of an oligo and mesohaline mangrove species from Indian Sundarban under climate change and different salinity regime. Linnaeus Eco-Tech. Växjö, Sweden.
3. Sardar, P., and **Samadder, S. R. (2022).** “Assessment of Vulnerability of Mangrove Ecosystems of Indian Sundarban Region using Remote Sensing Derived Time Series Variables and Analytical Hierarchy process”. American Geophysical Union, 2022, Chicago, USA.
4. Sardar, P., and **Samadder, S. R. (2020).** “Assessment of Current Threats of Mangrove Forests of India from Multi-Temporal Landsat Data Using Google Earth Engine”. January 13- 15, 2020. International Conference on Water, Energy, and Environmental Sustainability 2020 (WEES 2020) in association with RMIT University, Australia. National Institute of Technology, Durgapur, India.
5. Singh, V., and **Samadder, S. R. (2020).** “Land Surface Temperature trend analysis in Mining Area: A Case Study of Jharia Coalfield, Dhanbad Region”. January 13- 15, 2020. International Conference on Water, Energy, and Environmental Sustainability 2020 (WEES 2020) in association with RMIT University, Australia. National Institute of Technology, Durgapur, India.
6. **Samadder, S. R.,** and Prabhakar, R. **(2019).** “Co-occurrence of oxidation and adsorption for As(III) removal from groundwater using nano-MnO₂ loaded Laterite composite material” February 25-28, 2019. 9th International Conference on Chemistry and Chemical processes (ICCCP 2019). National University of Singapore, Singapore.
7. Kumar, A., and **Samadder, S. R. (2019).** “Effect of Cow Dung Inoculum in Biogas Generation from Anaerobic Digestion of Organic Fraction of Municipal Solid Waste- A Case Study” 26-29 June, 2019. 7th International Conference on Sustainable Solid Waste Management. Heraklion, Crete Island, Greece.
8. Ghosh, S., Prabhakar, R., and **Samadder, S. R. (2018).** “Assessment of aluminium oxide nanoparticles for arsenic removal” February 12 to 14, 2018. 4th International Conference on Environment and Ecology (ICEE 2018). Gauhati University, Guwahati, Assam, India.
9. 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.
10. 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.
11. 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.

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