

CV of Dr. S. R. Samadder (Updated on 08.07.2020)

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CONTACT ADDRESS:

Dr. Sukha Ranjan Samadder

Associate Professor

Department of Environmental Science & Engineering

Indian Institute of Technology (Indian School of Mines), Dhanbad

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Nationality: Indian

EDUCATIONAL QUALIFICATIONS:

Degree / Examination	University / Institution	From and To	Specialization
Postdoctoral Studies (Marie Curie Fellow)	University College Dublin, Ireland	Jan, 2008 to Jan, 2010	Environmental Spatial Analysis
Ph. D	IIT Kharagpur	July, 2001 to June, 2005	Environmental Engineering
M. Tech.	IIT Roorkee	July, 1999 to Feb, 2001	Environmental Engineering
B. Tech	NIT Surat	July, 1995 to June, 1999	Civil Engineering

EXPERIENCE

University / Organization	Designation	From	To	Nature of Experience
IIT (ISM), Dhanbad	Associate Professor	26 th July, 2017	Till Date	Teaching & Research
IIT (ISM), Dhanbad	Assistant Professor	6 th January, 2012	25 th July, 2017	Teaching & Research
NIT Bhopal, MP	Assistant Professor	19 th January, 2010	3 rd January, 2012	Teaching & Research
University College Dublin, Ireland	Marie Curie Experienced Postdoctoral Fellow	14 th January, 2008	11 th January, 2010	Research, Mentoring UG & PG Students, Teaching
NIT Bhopal, MP	Assistant Professor	1 st January, 2006	30 th November, 2007	Teaching & Research
NIT Bhopal, MP	Lecturer	10 th August, 2005	31 st December, 2005	Teaching & Research

Teaching Experience:

Subjects Taught:

- Water Supply and Treatment (M. Tech level)
- Life Cycle Assessment (M. Tech level)
- Environmental Remote Sensing and GIS (M. Tech level)
- EIA (B. Tech level)
- Environmental Hydraulics (B. Tech level)
- Principle and Design of Water Supply System (B. Tech level)
- Solid Waste Management (B. Tech Level)
- Hazardous and Biomedical Waste Management (B. Tech Level)

Details of Ph. D students Guided/Ongoing

S. No	Name of Student	Year	Title of the Dissertation
1.	DEBISHREE KHAN	Awarded (2015)	Evaluating the Scenario and Options of Solid Waste Management Using Geographical Information Systems (GIS): A Case Study of Dhanbad City, in Jharkhand, India.
2.	ASHVANI KUMAR	Awarded (2017)	Analysis of Contaminant Leaching from Coal Combustion Residues into Surface Water, Soil, and Groundwater.
3.	SNEH LATA	Awarded (2018)	Assessment of Iron Impregnated Banana Pith Biochar Adsorbent for As (V) Removal from Drinking Water.
4.	POOJA YADAV	Awarded (2018)	Evaluation of Environmental Impacts of Different Municipal Solid Waste Management Scenarios Using Life Cycle Assessment Approach.
5.	SHIVESH KISHORE KARAN	Awarded (2019)	Development of a Spatially Explicit Framework for Vulnerability Assessment of Water Resources Due to Coal Mining in India.
6.	ROSHAN PRABHAKAR	Pre-submission Seminar Given (2020)	Assessment of the Performance of Nano Alumina and Its Composite Based Adsorbents for Arsenic Removal from Groundwater.
7.	ATUL KUMAR	2015-Ongoing	Evaluating the Energy Recovery Potential for Better Management of Municipal Solid Waste.
8.	VIVEK SINGH	2017-Ongoing	Assessment of Water Quality Parameters and Identification of Sources of Pollutants of A River Watershed Using Remote Sensing & GIS.

9.	PURNENDU SARDAR	2017-Ongoing	Assessment of the Impact of Climate Change on Mangrove Ecosystem in Sundarban Area Using Remote Sensing and GIS.
10.	RIMA KUMARI	2019-Ongoing	Application of LCA in E-waste management

Details of M. Tech students guided/Continuing

S. No	Name of Student	Year of Passing	Title of the Dissertation
1.	NARESH THAKRE	2006	Ambient Air Pollution Status and Health Risk of Bhopal City.
2.	RAVI KANT SHARMA	2007	Analysis of Solid Wastes and Design of Sanitary Landfill for Bhopal City.
3.	RAJEEV SINGH PARIHAR	2007	Route Analysis for Solid Waste Collection in Bhopal City Using GIS.
4.	RAM LAKHAN RAJPUT	2007	Performance Evaluation of UASB Reactor Installed at Bhopal.
5.	ABHIJEET DIJGAVNE	2012	Landfill site selection using GIS.
6.	ANIL AMRAWANSHI	2012	Effect of Municipal Solid Waste (MSW) Dumping on Physical and Chemical Properties of Soil and Water.
7.	PRAMOD KUMAR SINGH	2013	Study on Locally Available Adsorbents for Removal of Arsenic from Groundwater.
8.	NEERAJ KUMAR SAURABH	2013	Status of Groundwater Arsenic Pollution and its Impact in Sahibganj District, Jharkhand.
9.	SHIVESH KISHORE KARAN	2014	Impact of Coal Mining on Surface Water Using Remote Sensing and GIS: A Case Study.
10.	RAVI KUMAR	2014	Removal of Arsenic from Groundwater Using Rice Husk.
11.	RASHDA KHANAM	2014	Spatio-temporal Change Analysis of Vegetation Cover in Jharia Coalfield.
12.	ADARSH KUMAR	2015	Reduction of Groundwater Contamination Using Alternative Overburden Dump Management.
13.	SHRUTI	2015	Assessment of Accuracy of the Landuse Classification in Coal Mining Areas Using Remote Sensing and GIS.
14.	ATUL KUMAR	2015	Impact of Socioeconomic Parameters on Generation and Characteristics of Municipal Solid Waste.
15.	GAURAV VILAS KAPSE	2016	Performance of <i>Moringa Oleifera</i> Seed as a Coagulant for Removal of Fine Particles from Coal Washery Effluent.
17.	GAURAV MOHANTY	2016	Impact of land use pattern on soil erosion into

			Panchet Reservoir, Jharkhand, India.
18.	VIVEK SINGH	2016	Assessment of the Groundwater Pollution Potential due to Coal Mining in Jharia Coal Field.
19.	RAJESH BARANWAL	2017	Assessment of Physico-Chemical Properties of OB Soil for Reclamation and Monitoring Phenological Changes through Remote Sensing.
20.	NITIN KUMAR	2017	Identification of Recycling and Recovery Routes of Plastic Waste for its Better Management: A case Study of Dhanbad City.
21.	JYOTSANA	2017	Synthesis of Iron Nanoparticles from Plant Wastes for Possible Use in Environmental Remediation.
22.	SOMAPARNA GHOSH	2018	Performance of Metal Oxide Nanoparticles for Arsenic Removal from Groundwater.
23.	CHANDRAKANT SINGH	2018	Estimation of Biomass Using Remote Sensing and GIS for Tropical Forest.
24.	YASH ARYAN	2018	A Life Cycle Assessment Approach for Better Management of Plastic Wastes: A Case Study.
25.	ALI	2019	Synthesis of MgO based nano-composite adsorbent for removal of As (III) from groundwater.
26.	ABHISHEK MANDAL	2019	Assessment of Environmental Impacts due to Production of Different Types of Cement Using Life Cycle Assessment Approach.
27.	SWATI VAISH	2019	Visible light induced photosynthesis of titanium nanoparticles for environmental applications.
28.	RUPAL PANDE	2019	Assessment of the Spatio-temporal Variation of Aerosol Concentration and Its Relationship with Land Surface Temperature Using Remote Sensing and GIS.
29.	APARNA SRIVASTAVA	2020	A GIS based Selection of Suitable Locations for Establishment of Rain Water Harvesting Sites in Dhanbad.
30.	SHUBHAM	2020	Evaluation of Waste Treatment Technologies for Effective Management of Municipal Solid Waste.
31.	VISHAL SAGAR	2020	Identification of Suitable Areas for Protection of Environmental Regime in Dhanbad Using Remote Sensing and GIS.
32.	RAHUL BHANDARI	Ongoing	(Yet to Finalize)
33.	KUMAR PRATIK	Ongoing	Plastic Waste Management

Details of Short-Term Courses Conducted

S. No	Period	Organization	Nature of Work	Status	Amount (Lakh)	Role	No of Co-CI if any
1.	25-27, May, 2016	Different Govt. and PSU Organizations	Short Term Course on "Water Quality and Management"	Completed	2.059	CI	01
2.	27-29, July, 2016	Different Govt. and PSU Organizations	Short Term Course on Monitoring of ecological restoration success and carbon sequestration using remote sensing and GIS	Completed	2.35	CI	01
3.	21-23, September, 2016	Different Govt. and PSU Organizations	Short Term Course on "Water Quality and Management for Thermal Power Plants"	Completed	1.902	CI	NIL

Details of Invited Lectures

S. No	Name of the Course	Date	Lectures	Place
1.	3-day training program on Water and Waste water Treatment and Management for the Executives of Drinking Water & sanitation Department (DWSD), Ranchi	8.11.2012	Operation and Maintenance of Wastewater Treatment Plants	IIT (ISM) Dhanbad
2.	A Two-Week EDP Course on "GEOTECHNICAL ENGINEERING AND SOIL MECHANICS"	7.6.2013	1. Types of Foundation 2. Selection of Foundation Types	IIT (ISM) Dhanbad
3.	Three Days Programme on "Environmental Impact Assessment & Auditing"	27.06.2013 to 29.06.2013	EIA Methods for Coal Mining	Sambalpur, Orissa
4.	Two-Weeks Training Programme on Mining Environment & Sustainable Development (16.08.2014 TO 01.09.2014)	23.08.2014	Solid and Hazardous Waste Management Issues in Mining Industries	IIT (ISM) Dhanbad
5.	3-Day Residential Training Program on "Assessment of Water Quality and Low-Cost Treatment Methods for Rural Water Supply"	15.10.2014 and 16.10.2014	1. Low cost treatment method for removal of arsenic and fluoride from water 2. Laboratory Visit and Hands-on Experience for Measurement of Water Quality Parameters	IIT (ISM) Dhanbad

6.	Two-Week Training Programme on Environmental Impact Assessment of Mining Projects for Officials of Ministry of Mines, Government of Afghanistan (6 th December 2014- 22 nd December 2014)	09.12.2014	Model Terms of Reference For Mining Projects	IIT (ISM) Dhanbad
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R & D Project: List of R & D projects

S. No.	Name of the Project	Funding agency	Amount (Lakh)	Status	Role
1.	Investigation and analysis of the status of arsenic pollution in groundwater of Sahibganj district, Jharkhand	IIT (ISM) Dhanbad	0.985	completed	PI
2.	Arsenic Removal from Groundwater Using Nano-adsorbents	DST	5.50	Completed	PI

Major Consultancy Projects

S. No	Period	Organization	Nature of Work	Status
1	December 2013 to July 2017	NMDC, Kirandul, CG	Setting up suitable Municipal Solid Waste Management Technique for BIOM, Kirandul Complex, Dist. South Bastar Dantewada (C. G).	Completed
2	June 2011 to December	Municipal Corporation, Bhopal, MP	Geo-environmental Investigation of Solid Waste Dumping Site, Bhopal, MP.	Completed
3	June 2011 to December	Municipal Corporation, Jabalpur, MP	Geo-environmental Investigation of Solid Waste Dumping Site, Jabalpur, MP.	Completed

LANGUAGE PROFICIENCY: Bengali, English, Hindi

Membership of Professional Bodies:

1. Life Member of Mining, Geological and Metallurgical Institute of India (MGMI).
2. Life Member of Indian Society of Remote Sensing

PUBLICATIONS:

Publications in SCI/SCIE Journals

Google scholar: <https://scholar.google.co.in/citations?user=OUZKzWEAAAJ&hl=en>

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

Cumulative Impact Factor	157.291
Total Publication in Q1 Journal	18
Total Publication in Q2 Journal	13
Total Publication in Q3 Journal	9

Total Publication in Q4 Journal	2
Total:	42

1. 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: 4.551) [SJIR: Q1] SCIE.
2. 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: 3.056) [SJIR: Q2] SCIE.
3. 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: 6.082) [SJIR: Q1] SCIE.
4. 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: 4.333) [SJIR: Q1] SCIE.
5. 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: 3.056) [SJIR: Q2] SCIE.
6. 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: 7.246) [SJIR: Q1] SCIE.
7. 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: 2.429) [SJIR: Q2] SCIE.
8. 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: 2.18) [SJR: Q2] SCI.
9. 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: 0.725) [SJR: Q4] SCIE.
 10. 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: 3.789) [SJR: Q1] SCIE.
 11. 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: 2.18) [SJR: Q2] SCI.
 12. 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: 5.448) [SJR: Q1] SCIE.
 13. 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: 3.775) [SJR: Q1] SCI.
 14. 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:2.213) [SJR: Q3] SCI.
 15. 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: 7.246) [SJR: Q1] SCIE.
 16. 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: 5.065) [SJR: Q1] SCI.

17. 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: 2.976) [SJIR: Q2] SCI.
18. 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: 3.056) [SJIR: Q2] SCIE.
19. 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: 7.246) [SJIR: Q1] SCIE.
20. 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: 2.18) [SJIR: Q2] SCI.
21. 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: 5.448) [SJIR: Q1] SCIE.
22. 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: 5.448) [SJIR: Q1] SCIE.
23. 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: 3.056) [SJIR: Q2] SCIE.
24. 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: 1.903) [SJIR: Q3] SCIE.
25. **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: 6.551) [SJR: Q1] SCI.

26. 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: 5.647) [SJR: Q1] SCI.
27. 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: 1.903) [SJR: Q3] SCIE.
28. 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: 2.029) [SJR: Q2] SCI.
29. 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: 5.647) [SJR: Q1] SCI.
30. 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: 2.771) [SJR: Q3] SCIE.
31. 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: 5.448) [SJR: Q1] SCI.
32. 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: 5.647) [SJR: Q1] SCI.
33. 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: 2.733) [SJR: Q2] SCIE.
34. 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: 1.903) [SJR: Q3] SCIE.

35. 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: 2.54) [SJR: Q2] SCIE.
36. **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: 2.439) [SJR: Q2] SSCI.
37. 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: 2.771) [SJR: Q3] SCIE.
38. 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. Doi: <https://doi.org/10.1016/j.watres.2011.04.013> (Impact Factor: 9.13) [SJR: Q1] SCI.
39. **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: 1.515) [SJR: Q3] SCIE.
40. **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: 1.151) [SJR: Q3] SCI.
41. **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: 1.515) [SJR: Q3] SCIE.
42. **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 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: 1.264 [SJR: Q4] SCI.

International Conference

1. 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.
2. 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.
3. 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.
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