Journals

[1] V. Baskaran and R. Saravanane (2021), Experimental investigation on Spirulina algae based thermal still for effective bio-desalination, Environmental Nanotechnology, Monitoring & Management (Elsevier) 15, 100434, 1-5

[2] V. Baskaran and R. Saravanane (2021), Dispersed Solar Still for effective Desalination using Montmorillonite Nanoparticle for sturdy clean water yield, IWA: AQUA â€“ Water Infrastructure, Ecosystem and Society, 70, 674-683

[3] V. Baskaran and R.Saravanane (2021), Rendering Utility water with solar still with efficiency of solar stills with different geometry - A review, Environmental Nanotechnology, Monitoring & Management (Elsevier) 16, 100534, 1-12.

[4] Murugan, P, Sarojini, G, R. Saravanane, and S. Bhuvaneswari, (2021), Removal of lead ions using OA-Fe3O4 magnetic nanoparticles-based pickering emulsion liquid membrane: process optimization using boxâ€“behnken response surface methodology, Environmental Technology, (Taylor & Francis), https://doi.org/10.1080/09593330.2021.2008016, pp.1-13.

[5] V. Baskaran & R.Saravanane (2021), Experimental study on domestic solar still desalination with cotton Gauze - An approach to field model, Springer Nature, Volume 8, 00547

[6] V. Baskaran & R. Saravanane (2020), Effect of Montmorillonite Clay in Partial treatment of Sea water, Environmental Nanotechnology, Monitoring & Management, (Elsevier) Volume 14, 100326, 1-6.

[7] Vivekanandan, A, Seshagiri Rao, R. Saravanane (2017) Enhanced control of activated sludge process using predetermined set-points, Intl. J. Env. Sci. Technol.(Springer) 14: 487- 496.

[8] Virapan, S., R. Saravanane (2017), Treatment of Reverse Osmosis Reject Water from industries, International Journal of Applied Environmental Sciences, 12 (3), 489-503.

[9] Virapan, S and R. Saravanane (2016) Reverse Osmosis Desalination Performance Using Artificial Neural Network Approach with Optimization, Asian Journal of Water, Environment and Pollution, 13, 95-102.

[10] Raman Saravanane â€"Consultation (2013): Extension of the Fuel Cells & Hydrogen, Joint Technology Initiative under Horizon 2020, â€œResults of the public consultationâ€European Commission: Directorate General for Research and Innovation, Directorate K â€" Energy, K.2 - Energy conversion and distribution systems, p.21 & 27, 09 January 2013.

[11] B.Radjaram and R. Saravanane, (2011), Assessment of optimum dilution ratio for biohydrogen production by anaerobic co digestion of press mud with sewage and water, Bioresource Technology 102: 2773-2780. [Elsevier, UK, Impact Factor: 4.253]

[12] B.Radjaram and R.Saravanane, (2011) Start up study of UASB reactor treating press mud for biohydrogen production, Biomass & Bioenergy, 35: 2721-2728. (Elsevier, Impact Factor: 3.326)

[13] B.Radjaram and R.Saravanane (2011), Biohydrogen from sugar industry waste & sewage in UASB reactor, ENERGY, 164: 79-79. (Thomas Telford Publishing, UK).

[14] B. Radjaram and R. Saravanane (2011) Biohydrogen production by anaerobic co- digestion of press mud and domestic sewage. International Journal of Environment and Waste Management, UK,

[15] B.Radjaram, R.Saravanane (2011) Feasibility study of biohydrogen production from pressmud by UASB process and assessment of operating parameters, Global NEST Journal , Greece.

[16] V. Murugaiyan and R. Saravanane (2011) Assessment of physco-chemical behavior and geotechnical management of pharmaceutical effluent laden clay soils, International Journal of Environment and Waste Management, UK, Vol. 7 (1/2), 132- 141.

[17] Jayakumar, S., Saravanane, R. (2011) Biodeterioration of coastal concrete structures by macro algae- Ulva fasciata, Journal of Marine Science and Technology, Vol.19(2), 154- 161.

[18]. R. Saravanane, R.Rajesh and R.Sivacoumar (2011) Anaerobic Stabilization and Conversion of Transformed Intermediates of Antibiotic Pharmaceutical Effluent in a Fluidized Bed Reactor, Journal of Environmental Science & Engineering, NEERI, 53(3), 231-236.

[19] . R. Saravanane (2013). Fuel Resource from Flue Gas, MoU Signed between Pondicherry Engineering College and NLC, BROWN COAL, House Journal of Neyveli Lignite Corporation Ltd., January â€“ April Issue, 2013, p.10.

[20] S. Sundararaman and R. Saravanane (2010). Effect of Loading rate and HRT on the removal of cephalosporin and their intermediates during the operation of a membrane bioreactor treating pharmaceutical wastewater. Water Science and Technology, (Elsevier UK.), Vol. 44, No.6, 141-147

[21] S Balasubramanian and R. Saravanane (2010). On-line Monitoring of Active Biomass Concentration in Wastewater Treatment Plant using a Potentiometric Microbial Biosensor, Sustainable Environment Research, 20(5), 311-315

[22] K. Nagakarthigan, R. Saravanane (2010), â€œInfluence of industrial pharmaceutical wastewater on the physicochemical and geotechnical properties of fine grained soilâ€, International Journal of Earth Sciences and Engineering (IJEE) ISSN-0974-5904, Indexed in CAS-USA-Ref No: 172238.

[23] Jayakumar, S. and Saravanane, R (2010). â€œDetrimental effects on coastal concrete by Ulva Fasciataâ€ Thomas Telford, UK, Journal of Construction Material, Vol. 163(4), 239 â€“246 , ISSN: 1747-650X, E-ISSN: 1747-6518

[24] S.Jayakumar and R. Saravanane (2010), Detrimental effects on coastal concrete structures by Chaetomorpha Antennina, Journal of Materials in Civil Engineering, ASCE, USA, Vol.22 (9), 858-864

[25] V. Murugaiyan and R. Saravanane (2009). Influence of Pharmaceutical Effluent on the Physico â€“ Chemical Behavior and Geotechnical Characteristics of Clayey and Silty Soils. International Journal of Soil, Sediment and Water, USA, Vol. 2 (3), 1- 15

[26] Jayakumar, S. and Saravanane, R. (2009) Biodeterioration of coastal concrete structures by Macro Algae- Chaetomorpha antenninaâ€ Journal of Materials Research, Cubo Multimidia, Brazil, 12(4): 465-472.

[27] V. Murugaiyan and R. Saravanane (2009) Interaction of industrial effluents and bentonite: a comparative study of their physico-chemical and geotechnical characteristics, Geomechanics

and Engineering (GAE)- An International Journal, Techno Press, Korea, Vol. 1 (4)

[28] R. Saravanane and S. Sundararaman (2009). Effect of Loading rate and HRT on the removal of cephalosporin during the operation of a membrane bioreactor treating pharmaceutical wastewater. Environmental Technology (Taylor and Francis. UK), Vol. 30 (10), 1017-102.

[29] V. Murugaiyan and R. Saravanane (2009). Influence of Pharmaceutical Effluent on the Physico â€“ Chemical Behavior and Geotechnical Characteristics of Clayey and Silty Soils. International Journal of Soil, Sediment and Water, Berkeley Electronic Press, USA, Vol. 2 (3), 1- 15.

[30] V. Murugaiyan, R. Saravanane (2009). Interaction of Industrial Effluents and Bentonite: A comparative study of their physico - chemical and Geotechnical Characteristics. Geomechanics and Engineering (GAE), An International Journal, USA and Korea, Vol. 1 (4), 291-306.

[31] Jayakumar, S. and Saravanane, R. (2009) Biodeterioration of coastal concrete structures by Macro Algae- Chaetomorpha antenninaâ€ Journal of Materials Research, Cubo Multimidia, Brazil, Europe, 12(4): 465-472.

[32] Manda Chitti Babu, R. Saravanane (2009). Anaerobic pretreatment and increased solid destruction for vegetable solid waste codigested with cattle slurry, Journal of Environmental Science and Engineering, NEERI, Vol. 51 (1), pp. 67-72

[33] R. Saravanane, Tamijevendane and Ravikumar (2009). Assessment, Evaluation and treatment of Municipal solid waste

leachate under Indian Scenario. Indian Journal of Environmental Protection, Vol.29 (9), pp. 817-823.

[34] R. Saravanane and S. Sundararaman (2008). Effect of Loading Rate and HRT on the removal of Cephalexin and 7- ACA antibiotic intermediates during the operation of submerged flat sheet membrane System for Pharmaceutical Wastewater Treatment, Proceedings of the Water Environment Federation (WEF), USA, WEFTEC 2008, Session 50 , pp. 3348-3357

[35] R. Saravanane and B. Radjaram (2008), â€œHydrogen Energy Recovery and Environmental sustainability on Renewable Biomass Systemâ€, NSTI Nanotech 2008, Environmental Clean Technology, 1-5 June 2008, Massachusetts, USA

[36] V. Murugaiyan and R. Saravanane (2008), Effect of acid effluent on the characterization and physio-chemical behaviour of clayey and sandy soil, Geotechnical Special Publication, ASCE, USA, 177, 827-834.

[37] V. Murugaiyan and R. Saravanane (2008), Influence of pharmaceutical effluent on the physico - chemical behaviour and geotechnical characteristics of cohesive soil, Geotechnical Special Publication, ASCE, USA, 179, 76- 83.

[38] R. Saravanane and S. Sundararaman (2008). Effect of Loading Rate and HRT on the removal of Cephalexin and 7- ACA antibiotic intermediates during the operation of submerged flat sheet membrane System for Pharmaceutical Wastewater Treatment, Proceedings of the Water Environment Federation (WEF), USA, WEFTEC 2008, pp. 3348-3357.

[39] Sri B. Muruganandam, R. Saravanane M. Lavanya (2008) Effect of Innoculum â€“substrate ratio on acclimatization of pharmaceutical effluent in an anaerobic batch reactor. Journal of Environmental Science and Engineering, NEERI, Vol. 50 (3), pp. 191- 196.

[40] R. Saravanane and M. Lavanya (2006), â€˜Anaerobic Stabilization And Recalcitrant Anti-Biotic Transformation Under Acclimated Inoculum-Substrate Matrixâ€™, Water Environment Federation (WEF), USA, WEFTECâ€™06, pp. 1739- 1746.

[41] R.Saravanane and D.V.S.Murthy (2000). Application of anaerobic fluidized bed reactors in wastewater treatment: A review. Environmental Management and Health, (Emerald Pub. UK), Vol. 11, No.2 & 3, 97â€“117.

[42] R.Saravanane, D.V.S.Murthy and K.Krishnaiah (2001). Anaerobic fluidized bed degradation and development of a kinetic model for a particulate organic matter enriched wastewater sludge. Water, Air and Soil Pollution (Kluwer Academic, USA) , Vol. 127, No. 1/4, pp 15 - 30.

[43] R.Saravanane, D.V.S.Murthy and K.Krishnaiah (2001). Bioaugmentation and treatment of cephalexin drug based pharmaceutical effluent in an upflow anaerobic fluidized bed system. BIORESOURCE TECHNOLOGY (Elsevier Pub. UK), Vol. 76, No. 3, pp 279 â€“ 281.

[44] R.Saravanane, D.V.S.Murthy and K.Krishnaiah (2001). Anaerobic treatment and biogas recovery for sago wastewater management using a fluidized bed reactor. WATER SCIENCE and TECHNOLOGY (Elsevier Pub.), Vol. 44, No.6, 141-147.

[45]. R.Saravanane, D.V.S.Murthy and K.Krishnaiah (2000). Assessment of toxicity and anaerobic degradation of anti-osmotic

drug based pharmaceutical effluent in an upflow anaerobic fluidized bed system. Glob. Nest: International Journal (Greece, UK), Vol 2, No.2, pp 149 â€“ 158.

[46] R.Saravanane, D.V.S.Murthy and K.Krishnaiah (2001). Bioaugmentation and anaerobic treatment of pharmaceutical effluent in fluidized bed reactor. Journal of Environmental Science and Health â€“ Part A, USA, Vol.36, No. 5, 779 - 791.

[47] R. Saravanane, T. Sundararajan and S.Sivamurthy Reddy (2001). Chemically modified low cost treatment for heavy metal effluent management. Environmental Management and Health (Emerald, UK), Vol. 12, No. 2, pp 215 â€“ 224.

[48] R.Saravanane, D.V.S.Murthy and K.Krishnaiah (2002). Bioaugmentation and treatment of cephalexin drug based pharmacveutical effluent in an upflow anaerobic fluidized bed system. Fuel and Energy Abstracts (Elsevier Pub.), Institute of Energy, UK, Vol. 43, No. 2, p.133.

[49] R.Saravanane, D.V.S.Murthy and K.Krishnaiah (2001). Treatment of anti-osmotic drug based pharmaceutical effluent in an upflow anaerobic fluidized bed system. WASTE MANAGEMENT (Pergamon Pub. UK), Vol. 21, No. 6, pp 563 â€“ 568.

Conferences

Conferences/ Webinar:

[1] Workshop on IPR awareness and On-Line webinar training program under NATIONAL INTELLECTUAL PROPERTY AWARENESS MISSION (NIPAM), 8 th February, 2022, Jointly Organised by Intellectual Property Rights (IPR) office, New Delhi, and PTU, India - disseminated to Faculty, students, scholars of PTU, Puducherry INDIA .

[2] Dr R. Saravanane (2021), Presentation for DSTE - Puducherry Climate Change Cell - Climate Change Webinar Series on the topic â€œCO2 Sequestration and Climate Mitigation â€“ An Industrial Orientationâ€ on 16 th February 2021.

[3] Dr Raman SARAVANANE & Environmental Team, On-line Webinar on "COVID 19 - PANDEMIC - LESSONS & CHALLENGES to Sustainable Environmental Practice", Live streamed on 14 th May 2020, coordinated with Puducherry State Disaster Management Authority (PSDMA), Govt. of Puducherry, India.

[4] Dr R. SARAVANANE & Environmental Team, On-line Webinar on "COVID 19 - PANDEMIC - ENVIRONMENTAL Challenges & SOCIAL SCIENTIFIC RESPONSIBILITY , Live streamed on 16 th May 2020, under IE (I), Puducherry State Centre, India .

[5] NLC sponsored National Seminar, (2017) on â€œCO2 Sequestration and Climate mitigationâ€ on November, 2- 3, 2017, PEC, Puducherry, India (MoU Signed Research Project between PEC and NLC Joint workshop with Institute â€“ Industry Interaction)

[6] Organiser and Technical Convener for - International Conference on â€œ Cleaner Technologies and Environmental Managementâ€, 4- 6, January 2007, Organised by Civil and Chemical Engineering Departments of Pondicherry Engineering College, Puducherry, India.

EXPERT LECTURE - Evaluations/ Presentations (INTERNATIONAL & NATIONAL -Conferences/Workshop/ Seminars)

Conferences

1. Dr. Raman SARAVANANE, European Commission â€“ Expert Evaluator â€“ Central Evaluation of Research and Innovation Projects

submitted under EU Research Programme - HORIZON - 2020 - EU â€“ INDIA Water Co-operation, Brussels, April 2018.

2. R. Saravanane, Environmental Risk Assessment and Case study, Presented for Short-term Course on â€˜Environmental Impact Assessmentâ€™, for Tamilnadu Pollution Control Board (TNPCB) at IIT Madras, Chennai, India, 16-20, July, 2007.

3. R. Saravanane, Environmental Risk Assessment, Presented for Short-term Course on â€˜Recent Advances in Environmental Engineeringâ€™, at NIT Trichy, India, 19-23, February, 2007.

4. R. Saravanane, Introduction to Environmental Sanitation and its Socio economic Well Being, Presented for â€˜Capacity Building Programme on Community Managed Sanitation and Solid Waste Managementâ€™ organised by TWAD Board Chennai, India,

8 â€“ 13 October, 2007.

5. R. Saravanane, Expert Lecture for Workshop on Cleaner Production Applications in Chemical and Pharmaceutical Industries, oraganised by Cleaner Production Cell, Andhra Pradesh Pollution Control Board (APPCB), Hyderabad, India, 18 th July 2008.

6. R. Saravanane, Expert Lecture for Workshop on Pollution Abatement through Science and Technology oraganised by Rajeev Gandhi College of Engineering and Technology, Pondicherry , India, 26 th May 2008

7. R. Saravanane, Special Lecture on â€œCO2 â€“ KICK THE HABITâ€ for the celebration of World Environment Day, oraganised by Institution of Engineers (India) and Engineers and Scientists Association, Neyveli Lignite Corporation Ltd, NLC, Neyveli, India, 19 th June 2008.

8. R. Saravanane, Expert lecture on â€œResearch and Teaching Methodology- Environmental Engineeringâ€, 20th Sep. to 1st Oct. 2008, at Ecole SupÃ©rieure d'IngÃ©nieurs de Poitiers (ESIP), University of Poitiers, Poitiers, France.

9. R. Saravanane, Expert Technical lecture on â€œKICK THE CO2 HABITâ€ for celebration of â€œEnvironment Monthâ€, 18 th December 2008, Steel Authority of India Limited (SAIL), Salem Steel Plant, Tamilnadu, India.

10. R. Saravanane, Expert Technical discussion on â€œEngineering and Environmental Issues on feasibility of secondary sewage effluent to offshore algal growthâ€, International workshop on Wind, Sea Algaeâ€“Offshore cultivation of algae for biodiesel production, 20 - 22 April 2009, Lolland, Copenhagen, Denmark.

11. R. Saravanane, Guest Lecture on, â€œEnvironmental Engineering and Sustainable Development â€“ An Overviewâ€, 30 th April, 2009, Manakula Vinayakar Institute of Technology, Puducherry, India.

12. R. Saravanane, Special Lecture on â€œEco-friendly algae for Environmental Managementâ€ oraganised by Institution of Engineers (India) and Engineers & Scientists Association, 30 th September 2009, Neyveli Lignite Corporation Ltd, NLC, Neyveli, Tamilnadu, India.

13. R. Saravanane (2011) Assessment of optimum dilution ratio and microbial consortium for Biohydrogen production by anaerobic co-digestion of press mud with sewage and water- A comparative study, Presented at World Congress on Biotechnology, (OMICS Publishing group, USA), March, 21-23,2011 Hyderabad, India.

14. R.Saravanane (2013), An Overview of Wastewater treatment Methods, Advanced Tools for Wastewater Treatment (AtWat), New INDIGO Networking Pilot Programme on Water Related Research, (EU-India Networking Project) on water related challenges, (www.newindigo-atwat.com), 28- 29, January 2013, National Institute of Technology (NIT), Tiruchirapalli, India.

15. R. Saravanane, Special Lecture Programme on â€œRoad map to Green Buildingsâ€ organised by The Institution of Engineers (India) and Engineers & Scientists Association, Neyveli, Tamilnadu, India on 9th March 2012.

16. R. Saravanane, Chief Guest in CUICKâ€™12, National Level Technical Symposium by Department of Civil Engineering, 13th March 2012, Arunai Engineering College, Tiruvannamalai, Tamilnadu, India .

17. R. Saravanane (2013) Wastewater Treatment By Membrane Bioreactor: Experience and Challenges, National workshop (AICTE) on â€œWastewater treatment by using Membrane bioreactorâ€ 18 th October, 2013, Mailam Engineering College, Tamilnadu, India.

19. R. Saravanane (2013) One day workshop on â€œEnvironmental Research Programme for Sustainable Developmentâ€, conducted by National Institute of Technical Teachers Training and Research (NITTTR), 27 th July 2013, Chennai, India

20. R. Saravanane (2013) Wastewater Treatment Practice in India â€“ Research, Experience & Challenges, presented at the research group BIOMATH, Department of Mathematical Modelling, Statistics and Bioinformatics, Ghent University, Belgium from September 28th 2013 to October 3rd 2013 in the framework of the running project, â€œAdvanced modeling, control and decision support tools for

flexible and optimal wastewater treatment plant (www.newindigo-atwat.com)â€.

Books

Books Published:

[1] A Text book titled â€œ Environmental Science And Engineeringâ€ by Dr. Raman Saravanane, The Select Publication, First Edition, January 2005. (For Anna University and Pondicherry University Syllabi), India

[2] INDUSTRIAL WASTEWATER TREATMENT, RECYCLING & REUSE - ELSEVIER Publicationâ€“ 2014, Chapter: 7, â€œUrban Wastewater Treatment for Recycling and Reuse in Industrial Applications: INDIAN SCENARIOâ€ R. SARAVANANE, Vivek V. Ranade, Vinay M. Bhandari, A. Seshagiri Rao, 283 â€“ 322.

[3] Editor (R. Saravanane) â€“ Proceedings of International Conference on Cleaner technologies and Environmental Management, PEC, Pondicherry, India, January 2007(Allied Publishers, Chennai, India)

[4] Editor (R. Saravanane) - Proceedings of International Workshop on Indo/French Technologies for Sustainable Environment, PEC, Pondicherry, India, April 2008

Book-Chapters/Paper Contributions:

[1] â€œBioaugmentation and Treatment of cephalexin drug-based Pharmaceutical effluent in an Upflow Anaerobic Fluidized bed Systemâ€, Biotreatment of Industrial Effluents â€“ Mukesh Doble and Anil Kumar, p.224, 2005, Elsevier Pub, UK, ISBN 0750678380.

[2] Bioaugmentation and Anaerobic Treatment of Pharmaceutical Effluent in Fluidized Bed Reactor, Biology of Wastewater Treatment - Nick F. Gray, p.1358, 2004, Imperial College Press, London, UK, ISBN 1860943322.

[3] â€œEffect of Chemically Modified low cost adsorbents for removal of heavy metals from waste water: A Comparative Studyâ€, Biotechnological Approaches for Sustainable Development- Sudhakara Reddy and Sunil Khanna p. 211, 2004, Allied Pub., India, ISBN 8177646699.

[4] â€œAnaerobic treatment of Sago waste water using a Fluidized Bed Reactorâ€, Chap. 23, Industry and Environment, - R.K. Trivedy, New Delhi, India, 540 p., 2002, ISBN 81- 7035-268-1.

[5] â€œAnaerobic transformation and bioremediation of cephlexin antibiotic waste sludge using a fluidized bed reactorâ€, Hazardous and Industrial Waste: Proceedings of the 33rd Mid- Atlantic Industrial and Hazardous Waste Conference - Nada Assaf- Anid, pp. 298 â€“ 306, 2001, CRC Press, USA, ISBN 1587161206.

[6] â€œEnvironmental Issue and Waste Management in Sago Industry for Energy Productionâ€, Environmental Issue and Management of Waste in Energy and Mineral Production, - Raj K. Sighal amd Anil K. Mehrotra, Canada, pp. 171- 174, 2000, Taylor & Francis Pub., ISBN 90 5809 085 X.

[7] â€œInhibition and Assessment of toxicity on anaerobic degradation of Anti-osmotic drug based pharmaceutical effluent in an up-flow anaerobic fluidized bed systemâ€, Hazardous and Industrial Waste: Proceedings of the 32nd Mid-Atlantic Industrial and Hazardous Waste Conference â€“ James (Chip) Kilduff, Simeon Komisar