

Publications

Journal Papers

- Kaurwar, A., Satankar, R., Gupta, S., Aravind, U. K., Kothari, K., Soboyejo, A., and Plappally, A., (2017), "Functional Demarcation of Traditional Off-White Colored Water Pots Manufactured from Rajasthan Clayey Soils and Red Colored Water Pots from Gujarat Clayey Soils Using Spectrographic, Cooling and Strength Studies--A Case Study from Jodhpur, Rajasthan, India" *MRS Advances*, Vol.2, No. 37-38, pp.2027-2032, 2017
- Satankar, R.K., Kaurwar, A., Gupta, S., and Plappally, A., (2017), "Horse Dung and Soil-Based Composites for Construction of Aesthetic Shelves in Rural Homes of Western Rajasthan", *Journal of Environment and Nanotechnology*, Vol.6, No.2, pp.43-47, 2017
- Dave, L., Jakhar, P., Gupta, S., Satankar, R.K., Kaurwar, A., Soyam, D., Brown L.C., and Plappally, A., (2017), "Application of Novel Fibres of *Crotalaria Burhia* for Rope, Rooftop Cover and Mat Production", *Journal of Environment and Nanotechnology*, Vol.6, No.2, pp.36-39, 2017
- Gupta, S., Satankar, R., Kaurwar, A., Aravind, U., Sharif, M., and Plappally, A., (2018), "Household Production of Ceramic Water Filters in Western Rajasthan, India", *International Journal for Service Learning in Engineering, Humanitarian Engineering and Social Entrepreneurship*, Vol.13, No.1, pp.53-66, 2018
- Nighojkar A., Vijay A., Kumavat A., Gupta S., Satankar R.K., and Plappally A., (2018), "Use of Marble and Iron Waste Additives for Enhancing Structure and Water Filtering Capacity of Salty Clay Ceramics, *Desalination and Water Treatment*, 2019
- Nighojkar A, Satankar R.K., Agrawal A.K., Singh B., Gupta, S., Oommen J.M., Dave L., Sharif, M. A.R., Soboyejo A.B.O., and Plappally A. (2018), "Establishing Correlations Between Pore Structure, Surface Roughness, Compressive Strength, and Fracture Toughness of Ceramic Water Filters Local to Rajasthan, India", *Desalination and Water Treatment*, 2019

Conference Papers

- Gupta, S., Kaurwar, A., Satankar, R.K., Usha, K., Sharif, M.A.R., Plappally, A.K., (2016), "Flow, Microbial Filtration and Petrophysical Properties of Ceramic Plate Ware Gravity Water Filter During Cyclic Water Loading Events", *In the Proceedings of (From Pollution to Purification) International Conference on Water (ICW)*, Mahatma Gandhi University, Kottayam, Kerala, India, 12-15 December, 2016
- Gupta, S., Murumkar, A., Kaurwar, A., Satankar, R.K., Virat, J., Kumar, G., Hatte, S., Goerge, K.J., Shedeekar V. and Plappally, A., (2016), "Identification of Matrix Framework to Study life cycle of water in India domestic Sector", *In the Proceedings of Emerging Technologies and Opportunities in the Water and Wastewater Management session at Water Today (WATMAN)*, Chennai, India, 3-5 March, 2016
- Soyam, D., Praveen, S., Bhagyawardhan, B., Gupta, S., Kaurwar, S., Satankar, R.K., Kothari, K. and Plappally A.K. (2016), G-Filters for Water Filtration: Technology for Individual Potter, UBA Pavilion, *India International Science Fest, 2016*, CSIR-NPL, New Delhi, India, 7-11 December, 2016
- Kaurwar, A., Gupta, S., Satankar, R.K., Plappally A., (2017), Marble Slurry as a Potential Ceramic Water Filtration Material: Comparative Analysis with Machined Fe Powder and Clay Ceramics for Effectiveness in as Removal from Water at Point of Use, *Third International Conference on Desalination using Membrane Technology*, Palacio de Congresos de Canarias, Las Palmas, Gran Canaria, Spain, 2-5 April, 2017
- Satankar R. K., Kaurwar A., Gupta S., and Plappally A.K., (2018), Point of Use Drinking Water Treatment Device for Households of Rural India by Traditional Potters, Workshop on the Interface of Science and Society, CSIR-NPL, New Delhi, India 14 December, 2018

Book Chapters

- Satankar, R., Kaurwar, A., Gupta, S., Usha, K., Azeko, S. T., Soboyejo, W.O., and Soboyejo, A.B.O., (2018), "Role of Equine Ordure in Enhancing Physical and Mechanical Properties of Natural Bio-Active Composites" *In Advanced Polymeric Materials for Sustainability and Innovations*, Ed.: D. Rouxel, et al., 2017, Apple Academic Press, NY, 2018
- Kaurwar, A., Satankar, R.K., Dave, L., Gupta, S., Oomen, J., Sharey, M., Bodhankar, S., and Plappally, A.K., (2018), "Use of Clayey Salty Soils and its Composite Derivatives for Construction and Ceramics for Household Use in the Thar Desert in India", *In Encyclopedia of Renewable and Sustainable Materials*, Ed: Maleque et al., Elsevier, 2018

