LIST OF PUBLICATIONS

Journal Publications

1. **R. Verma**, A. Bhalla and S. Kumar. "Valorization of Lignocellulosic Residues for Cost-Effective Production of Thermo-Alkali-Stable Xylanase by *Geobacillus thermodenitrificans* X1 of Indian Himalayan Hot Spring", *Waste Biomass Valorization*, pp.1-11, July 2018. **IF: 2.3 [Scopus, SCIE]**

2. **R. Verma**, A. Kumar and S. Kumar. "Synthesis and characterization of cross-linked enzyme aggregates (CLEAs) of thermostable xylanase from *Geobacillus thermodenitrificans* X1", *Process Biochem.*, vol. 80, pp. 72-79, Jan. 2019. **IF: 2.8 [Scopus, SCI]**

3. **R. Verma**, S. Chechi and S. Kumar. "Biobleaching of wheat straw-bagasse pulp using thermo-alkali-stable xylanase from *Geobacillus thermodenitrificans* X1". (Due for submission)
4. **R. Verma**, A. K. Tripathi, A. Yadav and S. Kumar. "Comparative analysis of various pretreatment methods for sugar recovery from waste foliage of *Pinus roxburghii* and *Pinus wallichiana*". (Due for submission)

Conference paper

R. Verma and A. Kumar, "Biogas Plants for Community Service", in *National Biogas convention for Sustainable Energy Access in Rural Areas: Proc. of 2nd National Conf. on Current and Emerging Trends in Indian Biogas and Bio-Fertilizer Development, CETIBBD-2015, September 15-17, 2015, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016*, V. K. Vijay, R. Chandra, A. Trivedi, B. Jha, V. Vijay, Eds. IIT Delhi, 2015. pp. 113-122.

Book Chapter

R. Verma, A. K. Tripathi and S. Kumar, "Conversion of Lignocellulosic Feedstocks into Biogas" in *Extremophilic Microbial Processing of Lignocellulosic Feedstocks to Biofuels, Value-Added Products, and Usable Power*, 1st ed. R. Sani and R. N. Krishnaraj, Ed. Switzerland:Springer Nature, 2018, pp. 111-143.

Correspondence article

R. Verma, A. Kumar and S. Kumar, "CO_2 levels and Coral Reefs", *Curr. Sci.*, vol. 111 (8), pp. 1288, Oct. 2016 **[Scopus]**

NCBI GenBank submissions

Verma R and Kumar S (2015): KT899095

Verma R and Kumar S (2018): MG874777, AYF56152

Conference Abstracts

1. W. Sharma, **R. Verma** and S. Kumar. "Process optimization for xylanase production using thermophilic bacteria isolated from biogas slurry". 2nd Himachal Pradesh science Congress (HPSC) 2017-18 organized by Himachal Pradesh Council for Science, Technology & Environment (HIMCOSTE), held at Hotel Peterhoff, Shimla, Nov. 20-21st , 2017.

2. P. Sethi, **R. Verma** and S. Kumar. "Bioprospecting for xylanse producing bacteria with potent application in lignocellulosic conversion". 2nd International Conference: Innovative Research in Engineering, Science and Technology (IREST-2017) held at Eternal University during April 7-8, 2017.

3. **R. Verma**, A. Bhalla and S. Kumar. "Isolation of thermophilic xylanase from hot spring soil sample". Second International Conference on 'Recent Advances in Bio-energy Research', held at National Institute of Bioenergy, Kapurthala, Jalandhar, Feb. 25-27, 2016.

4. **R. Verma**, A. Bhalla and S. Kumar. "Extremophilic xylanases for efficient conversion of lignocellulosic biomass". Second International Conference on 'Recent Advances in Bio-energy Research', held at National Institute of Bioenergy, Kapurthala, Jalandhar, Feb. 25-27, 2016.

5. **R. Verma**, Anil Kumar, Abhilash Kumar Tripathi, Ashish Kumar and Sudhir Kumar. "Biogas for community services". National biogas convention 2015 on Current and emerging trends in

Indian biogas and bio-fertilizer development, organized by biogas development and training center, center for rural development and technology, IIT Delhi, Sept. 15-16, 2015.

Trainings and Workshops

1. Participated in one day workshop on "Patent Drafting" held on 13th October 2017 at Jaypee Uiversity of Information Technology, Wakanghat, Solan, Himachal Pradesh.

2. Participated in one day workshop on "Innovation and Intellectual Property Rights" held on 9th December 2016 at Jaypee Uiversity of Information Technology, Wakanghat, Solan, Himachal Pradesh.

3. Participated in one week training program on Hands on Analytical and Molecular Tehniques 'Biomass based Biorefineries: An Emerging Incentive for Advanced Biofuels and Value-added Products' during February 23-27, 2015 held at National Institute of Renewable Energy Jalandhar, Punjab.