



Dr. Abirami Balakrishnan

EXPERTISE

Industrial Wastewater treatment
Advanced Oxidation Processes
Environmental Biotechnology

IF – 27.732

Total citations – 26

ORCID
0000-0001-5670-7839

Google Scholar
<https://scholar.google.com/citations?user=8gV5vz0AAAAJ&hl=en>

Scopus id
<https://www.scopus.com/authid/detail.uri?authorId=57219014308>

Awarded TEQIP
Funding for Students
project – Rs. 25000/-

EDUCATION

PHD ENVIRONMENTAL ENGINEERING • 2015 - 2021 • ANNA UNIVERSITY
Thesis Title - Studies on Treatment of Tannin Containing Wastewater from Tanneries. CSIR - Central Leather Research Institute, Chennai – 600 020

MTECH ENVIRONMENTAL ENGINEERING • 2012 - 2014 • THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI
CGPA - 8.64

BTECH BIOTECHNOLOGY • 2008 - 2012 • KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY, VIRUDHUNAGAR
CGPA – 8.43

EXPERIENCE

SENIOR RESEARCH FELLOW • CSIR – CENTRAL LEATHER RESEARCH INSTITUTE • AUG 2014 – SEP 2016
Research work based on characterization and treatment of tannery wastewater

SCHOLASTIC ACHIEVEMENTS

Qualified **UGC NET Environmental Sciences** for Assistant Professor category – Jul 2016 and Jan 2017

Qualified **GATE Biotechnology** 2012



abiramib@hindustanuniv
.ac.in



+91 8903859799
+91 8270259799



<https://www.linkedin.com/mwli/te/in/dr-abirami-balakrishnan-30260638>

MEMBERSHIPS

International Water Association (IWA)

International Consortium of Water Researchers (ICWR)

International Association for Water, Environment, Energy, and Society (IAWEES)

CONFERENCES

International – 5

National – 3

SEMINARS

Science writing workshop conducted by AWSAR-DST

Groundwater Contamination and Transport Modeling - short term course at NIT, Trichy

Shortlisted under **top 10 presentations for Finale** the event **Manthan** organised by CAG at **Delhi**

PUBLICATIONS – INTERNATIONAL JOURNALS

1. **Abirami B**, K. Sri Bala Kameswari & Chitra K (2021). Bacterial Tannase Enzyme production and its supplementation to Biological Treatment of Tannin containing Tannery Wastewater. *Industrial and Engineering chemistry research*, 60, 47, 16854–16863 (IF – **4.326**)
2. **Abirami B**, K. Sri Bala Kameswari & Chitra K (2021). Nutrients requirement of tannin containing tannery wastewater. *Environmental Technology and Innovation*, 23, 101776 (IF – **7.758**)
3. **Abirami B**, K. Sri Bala Kameswari & Chitra K (2020). Studies on the effect of pretreatment of vegetable tanning process wastewater prior to biological treatment. *Journal of Environmental Chemical Engineering*. 8(4). 104020 (IF – **7.968**)
4. **Abirami B**, K. Sri Bala Kameswari & Chitra K (2020). **Respirometric** assessment of vegetable tanning process wastewater generated from tanneries. *Engineering Reports*. 2(9), e12229
5. **Abirami B**, K. Sri Bala Kameswari & Chitra K (2020). Assessment on biodegradability prediction of tannery wastewater using EPI Suite BIOWIN model. *Environmental Monitoring and Assessment* 192(11), 1-9 (IF – **3.307**)
6. **Abirami B**, K. Sri Bala Kameswari & Chitra K (2019). Evaluation and kinetic study on enzyme supplementation to biological treatment of vegetable tanning process wastewater. *International Journal of Environmental Science and Technology*, 16(10), 5945–5954 (IF- **3.519**)
7. K. Sri Bala Kameswari, Chitra Kalyanaraman, **B. Abirami** and K. Thirumaran. (2018). Elimination of Chemical Sludge for Treatment of Tannery Wastewater and its Effect on Biogas Generation. *Desalination and Water Treatment*. 131, 162-168 (IF – **0.854**)
8. Kodom, T., **Abirami, B.**, Lekshmi, B., Kannan, P., Bala, K. K. S., Chitra, K., ... & Djaneye-Boundjou, G. B. A. N. D. I. (2016). Biological treatment of tannery wastewater pre-treated by coagulation using *Moringua oleifera* as natural coagulant. *Journal of Applied Chemical Science International*, 130-136.

PROJECTS ASSISTED

- ❖ Co-digestion of secondary sludge and fleshing for biogas generation
- ❖ Use of exhaust lime liquor for unhairing of trimming waste
- ❖ Biogas generation from hotel industry waste
- ❖ Assessment of Persistent Organic Pollutants from leather industry

PUBLICATIONS - BOOK CHAPTERS

- ❖ **Abirami B**, I. Athithyan, K. Sri Bala Kameswari, and Chitra K (2022). A Review on the Occurrence and Effect of Pharmaceuticals and Personal Care Products on the Environment. M. Vasanthi et al. (eds.), Organic Pollutants, Emerging Contaminants and Associated Treatment Technologies, Springer, Switzerland.
- ❖ **Abirami B**, K. Sri Bala Kameswari & Chitra K (2018) Assessment of Aerobic Biodegradability for Vegetable Tanning Process Wastewater Generated from Leather Industry. In *Water Quality Management*, pp. 151-160. Springer, Singapore.

INVITED LECTURES

- ❖ Delivered Expert talk on “**EPI Suite software**” and “**Leather waste Management**” in International Consortium of Water Researchers (ICWR) Students’ Internship programme - June 2021
- ❖ Delivered a Webinar as Resource person on “**Opportunities for Biotechnology and Biochemistry students**” organized by Sri Adi Chunchanagiri Women’s college, Kumbum, Tamil Nadu
- ❖ **Session chair** for a web conference on “**Biotechnology for a better tomorrow**” 2020 organized by Kamaraj College of Engineering & Technology, Virudhunagar, Tamil Nadu