



Dr. ALLIKA SAILAJA

Assistant Professor, Department of Biotechnology



allikasailaja.scoe@sinhgad.edu

OVERVIEW:

Qualifications: Ph.D (Computational Fluid Dynamics), M.Tech (Chemical Engineering), B.Tech (Chemical Engineering)

Experience: Teaching -16 years

Date of Joining STES: 23/10/2023

Skills and Proficiencies: Simulation studies, Computational Fluid Dynamics, Mass transfer studies, Adsorption and Separation technology Power BI, Tableau, COMSOL MULTIPHYSICS, SPSS (Statistical Package for Social Sciences)

SIGNIFICANT ACHIEVEMENTS:

1. Approved Ph.D Guide from 22-12-2020 to 22-12-2025 for the Subject area Biotechnology, Dr. D.Y.Patil Vidyapeeth, Pune.
2. Planet Spark Aptitude Certification in recognition of Outstanding performance in Child Pedagogy, English Language, Logical Reasoning, and English Grammar.
3. Certified Tableau professional by Skill up by Simplilearn Online training.
4. Certified Power BI professional by Cloudy ML Online training
5. Certified Microsoft Excel professional by Skill up by Simplilearn Online training.

AREA OF EXPERTISE /RESEARCH INTERESTS:

- Simulation studies
- Computational Fluid Dynamics
- Mass transfer studies
- Adsorption
- Separation technology

NUMBER OF STUDENTS GUIDED:

- PG 03, UG – 20+ Groups

RESEARCH PUBLICATIONS:

Publication Summary:

Scopus/ SCI-08
International Journal: 15
Conference : 08
h-index : 01

https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=AL3_zihE0iRKcWGazF-ysd9UuPySv4wFPmDM7H9SYpgYbMmQknHXMYHLOqGQGm4lQsqYE6x9j3TXaVm5XiaU-w&user=UC7wm4EAAAAJ

FUNDED RESEARCH PROJECT:

1. Received a grant of **Rs 1,50,000/-** from D.Y.Patil Vidyapeeth, Pune, India in 2021, for the Research Proposal “**Cultivation studies of microalgae using industrial effluents**”.
2. Conducted Two-day National level Conference on Current trends in Biotechnology, granted by **DBT, Govt. of India** with a grant of **Rs. 100.000/-** as a Convener.
3. Received a grant of **Rs 1,75,000 /-** from Board of College and University Development (BCUD), Pune University in 2012 for the Research Proposal “*Utilization of Industrial effluents for Algal growth*”.
4. Received a grant of **Rs 35,000/-** from Institute of Engineers, India (IEI) in 2010, for the Research Proposal “**Drying of Areca Nut**”

RESEARCH WORK:

Title- Study of heat transfer characteristics and electro viscous effects in a slit micro channel under asymmetric wall zeta potentials.

Objectives of Research Wok:

- To study flow and heat transfer characteristics in a micro channel with asymmetric wall zeta potentials
- To analyze electro viscous effect of power law fluids in a slit microchannel with asymmetric wall zeta potentials (Optimization problem)
- To study and analyze electro viscous behavior of power law fluids in a micro channel in the presence of steric effects (Optimization problem)

The research was conducted under the guidance of **Dr. K. V. Ramesh**, Professor, Department of Chemical Engineering, Andhra University College of Engineering (A), Visakhapatnam and Prof. B. Sreenivas, Associate Professor, Gayatri Vidya Parishad, Department of Chemical Engineering, Madhurawada, Visakhapatnam.

RESOURCE PERSON TO INDUSTRY/ACADEMIA:

- **Reviewer of Journal-** International Journal of Engineering Research & Technology (IJERT)
- **Reviewer of Journal-** Advances in Science, Technology and Engineering Systems Journal (ASTESJ), Advances in Science, Technology and Engineering Systems Journal (ASTESJ).

SUBJECTS TAUGHT:

- Mass Transfer
- Bio Process Modeling and Simulation
- Computational Techniques
- Biostatistics
- Fermentation Technology
- Process Dynamics and Control
- Analytical Techniques

CONFERENCES ATTENDED:

- Allika Sailaja, Minal Wani, Utilization of Sugarcane industry effluent for high value production of mixed algal culture, *3rd International Conference on Future Prospects of Biological Sciences and Biotechnology-2022*, 22nd – 23rd September 2022, Sri Shakti Institute of Engineering and Technology, Coimbatore, Tamil Nadu.
- Allika Sailaja, Dr. Bondala Srineevasulu, Dr. Bhadri Srinivas, Dr. K.V.Ramesh, Flow and Heat transfer characteristics in a microchannel with asymmetric zeta potential, *International conference on Microelectronics, Electromagnetics and Telecommunications 2K18, 2018*.
- Sailaja P, Tushar Pore, Sonali, Kejal Malpani. “Adsorption effectiveness of synthetic dyes on Kokum rind residue and investigation of best extraction procedure”. *International conference on Biotechnology and Biopinformatics (ICBB)* 1st -2nd Feb 2014
- Sailaja P, Tejas Khunte, Suraj Jalindre. “Ammonium nitrogen reduction from municipal waste water and industrial effluents using Microalgae”.
- Mrs. Sailaja.P, Dr. P.B.Dhamole, Kavita Trimal, Suresh Manekar, “*International conference on Bioengineering*”, 2013.
- Mrs. Sailaja.P, Dr.P.B.Dhamole, Nilesh Parahate, Bhushan Savale, “*International Conference in Advances in Bioprocessing*”, 2013
- Sailaja P, P B Dhamole, Ankit Raskar, Narwade Padmja, Swati Masal. “Studies on Microalgal cultivation using industrial effluents”. *International Conference on Herbal and synthetic drug studies*. 10th -12th Feb 2014
- Ritesh Zaskar, Ajit Gaikwad, Ankit Thosar, **Sailaja.P**, Ultrasonic Extraction of phenolics from seasonal fruits and investigation of the adsorption capacity of ultrasonicated fruit residues, *International Conference on Emerging trends in Science and Cutting-Edge Technology*, YMCA, Delhi. 28 September 2014.

FDP/STTP/SDP ATTENDED:

- Technical/AICTE/ATAL -12
- UHV (Universal Human Values) -02
- NEP (National Education Policy) – 01
- OBE (Outcome based Education) - 01
- ICT (Information and Communications Technology) – 04
- IQAC (Internal Quality Assurance Cell) -04
- TTT- Train the trainer- 03

RESPONSIBILITIES HANDLED AT SCOE/DEPT:

Institute Level (SCOE)

- Man Vs Food Event Coordinator Sinhgad Techtonic- 2024 (A National Level Techfest)

Department Level (E&TC)

- Department NBA Coordinator
- Website Co Coordinator
- Result Analysis Coordinator

DECLARATION:

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date: 10/12/2024

Signature

Dr. A. Sailaja