

SUMAN PAWAR

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Education

	Degree	Year	Institute	Specialization
1	Ph.D	2021	Siddaganga Institute of Technology	Chemical Engineering
2	M.Tech	2008	Siddaganga Institute of Technology	Chemical Engineering

Professional Experience

	Date (from-to)	Designation	Organization
1	2008 till date	Assistant Professor	Siddaganga Institute of Technology
2	2005 – 2006	Lecturer	Siddaganga Institute of Technology
3	2004 to 2005	Projects Engineer (SPRC)	Shanthala power research corporation, Hubli.

Positions held

- Mini Project coordinator

Affiliations of Professional organizations

- Members of global professor's welfare association forums, Karnataka

Awards and Honors

- Received **Best Paper Presentation Award** on 14th April 2020, from Indian Institute of Chemical Engineers: ACMS 2022, held on 14-16 April 2022. International **Conference** on Advances in Chemical and Materials Sciences.
Title of Paper: Comparative Study of Impact of Different Substrates on Oyster Mushroom Yield and Smart method of Cultivation
- Received “**Best environmental**” award on 28th September 2019 from “Deccan environmental research organisation”. Karnataka, India.

- National NGO Excellence award in “**Social Innovator**” 2019 on 30th December 2019 from “7th National NGO and CSR summit 2019.
- Received “**National Innovation award 2020**” Lifestar global welfare foundation, 1st Feb 2020.

Courses Taught

Undergraduate Courses

- Mechanical operations
- Chemical Engineering Thermodynamics
- Transport Process
- Research methodology
- Unit operation – I
- Transport phenomena
- Chemical equipment design and drawing
- Chemical Technology I & II
- Novel Separation Technique
- Environmental science
- Plant utilities
- Material science
- Biology for engineers

Postgraduate Courses

- Transport phenomena
- Environmental science

Research Areas

- Waste to wealth
- Nanotechnology
- Heavy metals removal from industry effluents
- Wastewater treatment

Sponsored Projects

Ongoing Projects:

1. Title: “ **Waste to Wealth**”
Funding Agency: **M/s, Usha Armour Pvt Ltd**, Bangalore.
Amount: **Rs. 1,00,000.00.**
Duration: 2021-2025
Role: Team leader

Completed Projects:

1. Title: **novel approach for preparation of casing material using industrial waste for cultivation of milky and button mushroom**
Funding Agency: KSCST
Amount: **5000**
Duration: 2022-2023
Role: Faculty advisor
2. Title: **Development of Biochar from Herbal Industry Waste and its utilization in wastewater treatment**
Funding Agency: BRC, Bangalore
Amount: **5000**
Duration: 2021-2022
Role: Faculty advisor
3. Title: **Design and Development Of Eco-Friendly Biodegradable Low Cost Sanitary Napkin For Rural Women's And Its Antibacterial Study**
Funding Agency: BRC, Bangalore
Amount: **5000**
Duration: 2020-2021
Role: Faculty advisor
4. Title: **Comparative Study of Various Substrates for Smart Mushroom Cultivation in Controlled Environment**
Funding Agency: KSCST
Amount: **5000**
Duration: 2020-21
Role: Faculty advisor

Publications

Journals

- Pawar, Suman, and Thomas Theodore. "Synthesis, characterization of hydroxyapatite from pomegranate fruit peel for Cr (VI) adsorption: Process modelling, kinetic and isotherm studies." *Heliyon* 10, no. 18 (2024).
- Pawar, Suman, Kogali Uma, and Thomas Theodore. "Development of biochar using herbal industry waste for removal of hexavalent chromium from aqueous solution: Column study." *Results in Chemistry* 10 (2024): 101713.
- Pawar, Suman, Roopa Farshi, Asha Gowda Karegowda, and Pooja Bhat. "Affordable, biodegradable, and environmentally friendly sanitary napkins for rural women, with a focus on degradation study." *Results in Engineering* 24 (2024): 102988.
- Pawar, Suman, and Thomas Theodore. "Optimization and column study on hexavalent chromium removal using hydroxyapatite beads derived from mosambi fruit peel." *Rasayan Journal of Chemistry* 17, no. 4 (2024).

- Shankar, B. Latha, T. R. Veena, Suman Pawar, Asha Gowda, and Akarsha R. Kadadevaramath. "A study on value chain of mushroom for value addition: challenges, opportunities and prospects of cultivation of mushroom." *International Journal of Business and Systems Research* 18, no. 6 (2024): 539-554.
- Pawar, Suman, Shridhar Bagali, and B. S. Gowrishankar. "Column study using modified banana pseudo stem as adsorbent for removal of Pb (II)." *Heliyon* 9, no. 5 (2023).
- Uma, K., and Suman Pawar. "TiO₂/g-C₃N₄ composites for the removal of chromium in wastewater." *Results in Chemistry* 5 (2023): 100743.
- Pawar, Suman, Thomas Theodore, and Poornima G. Hiremath. "Synthesis of hydroxyapatite from avocado fruit peel and its application for hexavalent chromium removal from aqueous solutions-adsorption isotherms and kinetics study." *Adsorption* 100 (2019): 2.

Conference Proceedings

- Karegowda, Asha Gowda, M. Sahana, and Suman Pawar. "YOLO8 Based Smart Detection of Contaminants in Hyacinth Bean Grains." In *2024 8th International Conference on Computational System and Information Technology for Sustainable Solutions (CSITSS)*, pp. 1-6. IEEE, 2024.
- Pawar, Suman, and Thomas Theodore. "Development of hydroxyapatite from waste mutton bones and its application for hexavalent chromium removal from aqueous solutions-Adsorption isotherms and kinetics study." In *AIP Conference Proceedings*, vol. 2274, no. 1. AIP Publishing, 2020.
- Pawar, Suman, and Thomas Theodore. "Synthesis and characterization of hydroxyapatite particles from waste fish bone and statistical modelling of hexavalent chromium removal using synthetic wastewater." In *AIP Conference Proceedings*, vol. 2399, no. 1. AIP Publishing, 2023.
- Pushpa T P, Suman Pawar, Asha Gowda Karegowda, "Comparative study of various substrates for mushroom cultivation and its nutrient analysis", - Rabindranath Tagore University Journal Vol. XI/Issue XXI September 2021, ISSN: 2278-4187. Pp. 2540-2545.
- Deepanjan Sen, Hina Tasnima. M, Jayasimha K.N, Suman Pawar and Dr. N Nagaraju "synthesis, characterization and catalytic activity of zeolites" Research journal of chemical and environmental science. ISSN: 2321 – 1040, October 2016.
- Suman Pawar, Thomas Theodore, Use of Fungal Biomass for detoxification of Hexavalent chromium" International journal of innovative research and development, ISSN 2278-0211, Vol 5 Issue 11, October 2016.

Book Chapters

- Published book chapter on "**Molecularly Imprinted Polymers for Environmental Monitoring Fundamentals and applications**", Title of book: Synthesis and characterization of molecularly imprinted polymer, 2023, Pp – 2-19. DOI:<https://doi.org/10.1088/978-0-7503-4962-8ch2>

- Published book chapter on “**Oyster Mushroom Farming and its value-added products**” by Green IoT: Sustainable Design and E-commerce Technologies ISBN: 978-81-955856-8-7, October-2022. AN Publications, No: 29,Moorthy Street, Balavinayagar nagar,Tiruvallur-602001, www.anpublications.in

Reviewer of Journal

- Process Safety and Environmental Protection
- Cogent Business & Management

Invited Lectures, talks and workshops

- Delivered a talk on “**Production and process operation management**” at Kamadeva rolling industry,Hubbli on 12-11-2019.
- Delivered a talk on “**Solid waste management**” at Adarsha education socirty (R), school on Kannadarajyothsava function, Shirguppi, Hubbli on 11-11-2019

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