

Dr. Sangita S. Meshram

Department: Physics

Contact Information

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- **Educational Background**

- **Ph D. Dielectric Materials, SRTMU, Nanded, 2021**
 - MSc. Physics, Electronics, Mumbai University 1996
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Areas of Expertise / Research Interests

- Electronics and Dielectric Materials
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Teaching Interests

- Electronics
 - Solid State Physics
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Professional Experience

- Assistant Professor, B N Bandedkar College Of Sciences, AUTONOMOUS, Thane, [27 years]
 - Head Of The Department (from 2021), Controller Of Examination (from 2022), Co-ordinator Of Special Cell (2017-2023), CDC Member (2023) Co-ordinator Of Placement Cell (2007-2013)
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Publications & Research

1. Meshram, S.S. (2012). *Buddha's teaching solution to environmental problems*. In **Eco Revolution 2012, Colombo – Sri Lanka** (pp. 175–177). ISBN: 978-81-920431-2-8.
2. Goswami Giri, A., More, R., Jamdhade, V. M., & Meshram, S. (2013). Human interferon. *Journal of Bionano Frontier (JBFB)*, 1(1), 50–55.
3. Meshram S, Tumberphale U, Gawali P, 2013, “Molecular Interaction studies of Ethylene dia amine with 2 Methoxy ethanol at 9.85 GHz microwave frequency”, *Bionano Frontier*, volume 6(2), 318-321.

4. Ravangave, L. S., Conde, U. S., Meshram, S. S., & Meshram, S. (2013). Effect of Zn content on tuning of optical band gap of chemical bath deposited $\text{Cd}_{1-x}\text{Zn}_x$ thin films. *Bionano Frontier*, 6(2), 208–209. (Print ISSN: 0974-0678; Online ISSN: 2320-9593).
5. Meshram, S. S., Goswami Giri, A. S., Ravangave, L. S., & Jamdhade, V. M. (2014). Role of gastrophysics and community gardening in food security. *Bionano Frontier*, 7(2), 118–121. (Print ISSN: 0974-0678; Online ISSN: 2320-9593).
6. Meshram, S. S., & Goswami-Giri, A. S. (2014). Gastrophysics: An emerging scientific discipline. *Research and Reviews: Journal of Pure and Applied Physics*, 2(4), 12–15. e-ISSN: 2320-2459; p-ISSN: 2347-2316.
7. Barsagade, M. W., & Meshram, S. (2015, June 23–30). Indian Buddhist women followers of Dr. B. R. Ambedkar. In *Sakyadhita 14th International Conference on Buddhist Women: Compassion and Social Justice* (pp. 149–151). **Yogyakarta, Indonesia**.
8. Meshram, S. S. (2016). Molecular interaction studies of ethylene diamine with 2-methoxy ethanol at 9.85 GHz microwave frequency. *Bionano Frontier*, 9(1), 7–10. Print ISSN: 0974-0678; Online ISSN: 2330-9593.
- Meshram, S. S., Tumberphale, U. B., & Gawali, P. G. (2017). Ultrasonic behaviour of binary mixture of 2-methoxy ethanol with ethylene diamine at 3 MHz ultrasonic frequency at 303 K. In *Proceedings of RTBN-2017 (Abstract Book)* (p. 42).
9. Meshram, S. S., Tumberphale, U. B., & Gawali, P. G. (2018). Dielectric study of binary liquid mixtures of 1,2 di-amino-propane with methanol at 9.85 GHz microwave frequency. *International Research Journal of Science & Engineering*, SCAMMC-2018, 41–45. UGC Approved Journal No. 63628, SJIF Impact Factor 4.11.
10. Mandlekar, B. K., Koli, A. A., & Meshram, S. S. (2018). Determination of acoustic properties of green coconut (*Cocos nucifera* L.) water and white meat coconut water for 2 MHz ultrasonic frequency at temperatures from 15 °C to 70 °C. *Journal of Bionano Frontier (JBFB)*, February 2018, 734–740.
11. Meshram, S. S., Tumberphale, U. B., & Gawali, P. G. (2019). Molecular interaction study of allyl amine with 2-methoxy ethanol at 2 MHz frequency. *International Journal of Basic and Applied Research*, 9(5), 1360–1370. ISSN: 2249-3352 (Print), 2278-0505 (Online). UGC Approved Journal No. 64041. Cosmos Impact Factor: 5.960.
12. Karangutkar, S. A., Chagan, A. M., Meshram, S. S., & Pawar, S. S. (2019). Comparative study of phototransistor (L14G1) for different color filters. *Journal of Bionano Frontier (JBFB)*, February 2019, 817–822. ISSN: 2454-2776.
13. Meshram, S. S., Goswami-Giri, A. S., Tumberphale, U. B., & Gawali, P. G. (2020). Dielectric behaviour of allyl amine (AA) and 2-methoxy ethanol (2-ME) at 9.85 GHz microwave frequency. *International Journal of Multidisciplinary Educational Research*, 9(4[1]), April 2020. ISSN: 2277-7881. Impact Factor: 6.514 (2020).
14. Meshram, S., & Meshram, S. (2020). Light fidelity (Li-Fi): A wireless technology. *J-BFB: A Multidisciplinary Journal*, 9, 7–13. ISSN: 2454-2776.
15. Meshram, S. S., Tumberphale, U. B., & Gawali, P. G. (2020). Investigation of complex formation between allyl amine (AA) and 2-methoxy ethanol (2-ME) using excess ultrasonic and dielectric parameters. *Aut Aut Research Journal*, XI(VII), 550–559. ISSN: 0005-0601. UGC Care List Group II.

16. Meshram, S. S., Tumberphale, U. B., Gore, S. K., & Gawali, P. G. (2021). Dielectric properties of allyl amine and 2-ethoxy ethanol using microwave frequency 9.85 GHz at room temperature. *J-BNB: A Multidisciplinary Journal*, 11, 125–136. ISSN: 2454-2776.
17. Meshram, S. S., Tumberphale, U. B., & Gawali, P. G. (2021). Dielectric properties of allyl amine and 2-butoxy ethanol using microwave frequency 9.85 GHz at room temperature. *Journal of the Maharaja Sayajirao University of Baroda*, 55(32), 477–482. ISSN: 0025-0422.
18. Meshram, S. S., Tumberphale, U. B., & Gawali, P. G. (2022). Dielectric behaviour of 2-ethane diol, allyl amine and their mixtures. In *Advances in Material Science, Characterization and Application* (1st ed., pp. 251–261). ISBN: 978-81-957290-1-2.
19. Meshram, S. S. (2025). Solar energy: Strength, limitations and role as a sustainable energy source. *J-BNB: A Multidisciplinary Journal*, 13, 95–98. ISSN: 2454-2776. [Short Communication]
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