



A. D. PATEL INSTITUTE OF  
TECHNOLOGY  
(The Charutar Vidya Mandal (CVM) University)  
Mechanical Engineering Department



### List of Research Papers Published (AY: 2022-2023)

#### *Papers published in National / International Journals and Conferences: -*

1. **Makwana Manisha** and Ajay Patel of department of Mechanical Engineering Department published a research paper on “Effect of Mass on the Dynamic Characteristics of Single- and Double-Layered Graphene-Based Nano Resonators” in Materials 2022, Volume 15 (August 2022) , pp. 15(16), 5551 ISSN: 1996-1944. (International-SCIE)
2. **Makwana Manisha** and Ajay Patel of department of Mechanical Engineering Department published a research paper on “Recent applications and synthesis techniques of graphene” in Journal of Molecular Modeling 2023, Volume 14 (December 2022), pp. 287-303(17), ISSN 1876-4029. (International-SCOPUS)
3. **Makwana Manisha** and Ajay Patel of department of Mechanical Engineering Department published a research paper on “Nanoresonator vibrational behaviour analysis of single-and double-layer graphene with atomic vacancy and pinhole defects” in Journal of Molecular Modeling, Volume 29 (May 2023), pp. 149, ISSN 16102940, 09485023. (Springer Berlin Heidelberg International-SCIE)
4. **Makwana Manisha** and Ajay Patel of department of Mechanical Engineering Department published a research paper on “Influence on dynamic behaviour of single layer graphene by Stone wales and pinhole defects” in Journal of Advances in Materials and Processing Technologies 2023, Volume 21 (March 2023), pp. 287-303(17), ISSN 2374068X, 23740698. Taylor & Francis (International-ESCI)
5. **Makwana Manisha** and Ajay Patel of department of Mechanical Engineering Department published a research paper on “Multiwall Carbon Nanotubes: A Review on Synthesis and Applications” in Journal of Nanoscience & Nanotechnology-Asia 2022, (Volume 12, June 2022), pp 3-15, ISSN 2210-6812. Bentham Science Publishers (International- SCOPUS)
6. **Ronakkumar Shah**, Mayank Makwana, Nimesh Makwana, **Ruchir Desai** of department of Mechanical Engineering published a research paper on “Performance analysis of black gravel solar still” in Materials today: proceedings, Volume 72 (January 2023), pp. 1000-1006, ISSN: 2214-7853. (International - SCOPUS)
7. **Mehul B Patel** and Dr. Darshak A Desai of department of Mechanical Engineering published a research paper on “A Review on Application of Cost of Quality (COQ) In Different Sectors” in Purakala, Volume 32 Issue 1 (January 2023), pp. 373-380, ISSN: 0971-2143. (National - UGC CARE)



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8. **Manisha Makwana**, Ajay Patel “Influence on Dynamic Behaviour of Single Layer Graphene by Stone Wales and Atomic Vacancy Defects”, Proceedings of the International Conference in Recent Advances in Mechanical Engineering, August 25-27, 2022, Indian Institute of Technology, Jodhpur, Rajasthan, India ICRAM2022– Paper No. 6571.
9. **Makwana, M.**, Patel, A.M. Nano resonator vibrational behavior analysis of single- and double-layer graphene with atomic vacancy and pinhole defects. Journal of Molecular Modeling 29 (149), (19/04/2023). Springer Nature. SCIE Indexed. WOS, Impact Factor: (2.172).
10. **Makwana, M.**, Patel, & A. M. (2023). Influence on dynamic behavior of single layer graphene by Stone Wales and pinhole defects. Advances in Materials and Processing Technologies, 1-12. Journal of Taylor, and Frances. WOS, ESCI indexed Impact Factor (2.37). doi.org/10.1080/2374068X.2023.2192126 (19/03/2023) (Page.198-209)