



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



List of Research Papers Published (AY: 2023-2024)

Papers published in National / International Journals and Conferences: -

1. **Makwana, M.,** Patel, A.M. Nano resonator vibrational behavior analysis of single- and double-layer graphene with atomic vacancy and pinhole defects. J Mol Model 29, 149 (2023). Springer Nature. SCIE Indexed. WOS, Impact Factor: (2.172).
2. **Makwana, M.,** & Patel, A. M. (2023). Identification of microbes using single-layer graphene-based nano biosensors. Journal of Molecular Modeling, 29(12), 382. Springer Nature, SCIE Indexed. WOS, Impact Factor: (2.172).
3. **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).
4. **Makwana, M.,** & Patel, A. M. (2023) "Identification of corona microbes using single-layer graphene-based nano biosensors." presented paper in 8th International Conference on Advanced Nanomaterials and Nanotechnology ICANN 2023, November 29 to December 1, 2023 organized by Centre for Nanotechnology, Indian Institute of Technology Guwahati, Assam, India
5. **Makwana Manisha;** Ajay Patel; Ashish Goyal (2024) "Influence of stone wales and divacancy defects on the dynamic behavior of single layer graphene" AIP Conf. Proc. 21 March 2024; 2985 (1): 020013. <https://doi.org/10.1063/5.0204476>. SCOPUS, Impact Factor: (0.41).
6. **Prof. Harsh Joshi** "Direct torque control of induction motor using inverter", recent trend in control and convertor, Volume 6 Issue 3, HBRP publication.