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CERTIFICATE BY THE GUIDE

This is to certify that Ms. Trupti K. Gajaria has been working on “*Energetics, Structural and Optoelectronic Properties of III-V Semiconductor Heterostructure Nanowires*” under my guidance and supervision for the degree of Doctor of Philosophy from the Department of Physics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara. During this period, she has published following list of publications in the international peer reviewed journals:

No.	Journal (ISSN)	Paper Title	Authors	Volume, page, year
1.	Scientific Reports (2045-2322)	<i>ab initio</i> Energetics and Thermoelectric Profiles of Gallium Pnictide Polytypes	Trupti K. Gajaria, Shweta D. Dabhi, Prafulla K. Jha	9, 5884 (1-20), 2019
2.	International Journal of Hydrogen Energy (0360-3199)	Hydrogen evolution reaction electrocatalysis trends of confined gallium phosphide with substitutional defects	Trupti K.Gajaria, BasantRoondhe, Shweta D.Dabhi, PiotrŚpiewak, Krzysztof J.Kurzydłowski, Prafulla K.Jha	In Press, 2019
3.	International Journal of Hydrogen Energy (0360-3199)	Exploring the hidden catalyst from boron pnictide family for HER and OER	Trupti K.Gajaria, BasantRoondhe, Shweta D.Dabhi, Prafulla K.Jha	In Press, 2019
4.	AIP Conference Proceedings (0094243X, 15517616)	Diameter and strain dependent structural, electronic and optical properties of gallium phosphide nanowires	Trupti K Gajaria, Shweta D Dabhi, Prafulla K Jha	2115 (1), 030178, 2019

Place: Vadodara

Date: July 1, 2020

(Prafulla K. Jha)

PhD Guide

Conference/Workshop/Seminars

1. International Virtual Conference on New horizons in density functional theory: **Faraday Discussion**, United Kingdom | Poster Presentation [2-4 September 2020](#)
2. **VIII International Conference on Perspectives in Vibrational Spectroscopy**, JNCASR, Bangalore, Karnataka, India | Poster Presentation [24-29 February 2020](#)
3. **64th DAE Solid State Physics Symposium**, IIT Jodhpur, Jodhpur, Rajasthan, India | Poster Presentation [18-22 December 2019](#)
4. **The First-DAE Computational Chemistry Symposium (DAE-CCS 2019)** at BARC Mumbai, India | **Oral** Presentation [7- 9 November 2019](#)
5. **International Conference on Modern Concepts and New Materials for Thermoelectricity**, ICPT, Trieste, Italy | Poster Presentation [11-15 March 2019](#)
6. **Indo-German Bilateral Workshop on Membranes for Water and Energy**, CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar, Gujarat, India | Poster Presentation [18-20 February 2019](#)
7. **63rd DAE Solid State Physics Symposium**, Guru Jambheshwar University of Science and Technology, Hissar Haryana | Poster Presentation [18-22 December 2018](#)
8. **International Conference on Materials for Energy applications**, S.S Jain Subodh (Autonomous) college, Jaipur Rajasthan | Poster Presentation [6-8 December 2018](#)
9. **7th International Conference on Perspectives in Vibrational Spectroscopy**, BARC, Mumbai, India | Poster Presentation [25-29 November 2018](#)
10. **National Conference on Advance in Spectroscopy: Molecules to Materials**, IIT-RAM, Ahmedabad, Gujarat, India | Poster Presentation [4-6 October 2018](#)
11. **National Conference on Recent Trends in Condensed Matter Physics**, Kolkata, West Bengal, India | Poster Presentation [31 Oct-3 November 2018](#)
12. **International Conference on Nanotechnology ICN:3I**, IIT-Roorkee, Roorkee, India | Poster Presentation [6-8 December 2017](#)