

Komal Verma

Roll Number: 206107015

PhD – Chemical Engineering

IIT Guwahati

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Educational qualifications

M.Tech	Motilal Nehru National Institute of Technology Allahabad	9.45 CPI	2018- 2020
B.Tech	Dr. AITH Kanpur	86.23%	2018
Senior secondary	CBSE board	90.6%	2013
Secondary	CBSE board	9.6 CGPA	2011

Research Interests

- Reaction Engineering , Waste management , Gasification , Pyrolysis , Kinetic analysis

Technical skills

- **Technical instruments** : Muffle furnace, X-ray fluorescence , Bomb calorimeter ,Viscometers, Aniline & Flash point Apparatus
- **Miscellaneous** : Microsoft Office

Projects

- **Kinetics study of Co-gasification of Petroleum coke and coal** May 2020
Dr. Ashish N. Sawarkar , Assistant Professor, Dept. of Chemical Engineering , MNNIT Allahabad
- **Physico-chemical characterization of Coal and Sunflower de-oiled cake** May 2018
Dr. Sumit Prajapati , Assistant Professor, Dept. of Chemical Engineering , Dr. AITH Kanpur

Publications in Journals

1. Gajera, Z. R., Verma, K., Tekade, S. P., Sawarkar, A. N., 2020. Kinetics of co-gasification of rice husk biomass and high sulphur petroleum coke via TGA. *Bioresource Technology Reports*, doi:10.1016/j.biteb.2020.100479 (Published online on June 20, 2020).
2. Verma, K., Gajera, Z.R., Sawarkar, A. N. Kinetics of co-gasification of petcoke and coal. Submitted to *Journal of The Institution of Engineers (India): Series E (IEIE)* doi: 10.1007/s40034-020-00178-x (Published online on September 20, 2020)

Presentation in Conferences

- “Co-gasification of Petroleum Coke and coal” by Komal Verma, Zavin R. Gajera, , Ashish N. Sawarkar has presented in the National Conference on **Advances in Chemical Engineering and Science 2020** at the Department of Chemical Engineering, Indian Institute of Science Education and Research Bhopal, Madhya Pradesh.
- “Co-gasification of Rice Husk and Petroleum Coke” by Zavin R. Gajera, Komal Verma, Ashish N. Sawarkar has accepted for presentation in the forthcoming International Conference BioSangam 2020 “**Biotechnological Interventions for Societal Development**” at Prayagraj during February 21-23, 2020.

Overview

1. Physico-chemical characterization and kinetics of Co-gasification of petroleum coke and coal through thermogravimetric analysis.
2. Physico-chemical characterization and kinetics of pyrolysis of mustard oil cake through thermogravimetric analysis.

Reference: *Dr. Ashish N. Sawarkar Asst.Prof.(Grade-I) , MNNIT Allahabad, ansawarkar@mnnit.ac.in*