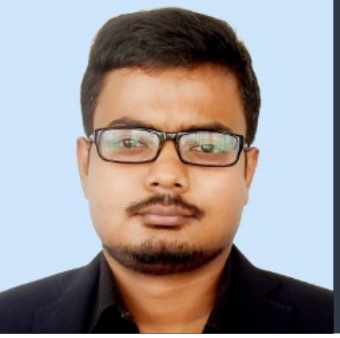

Pallab Das

PhD, Chemical Engineering

pallab.cv13@gmail.com, pallab.das@ntu.edu.sg +65 90513432
Jurong West Street 74, #05-27, Blk744, 640744 Singapore

Education

PhD Jun 2013 - Sep 2019
IIT Guwahati, Guwahati, Assam
Thermal degradation of packaging plastic waste and its conversion into fuel by pyrolysis

M. Tech Jun 2011 - Jun 2013
IIT Kharagpur, Kharagpur, West Bengal
Chemical Engineering

Bachelor of Engineering May 2007 - Jun 2011
Assam Engineering College, Guwahati, Assam
Chemical Engineering

Employment

Research Fellow May 2019 - Feb 2023
Nanyang Technological University, Singapore
Research highlights
i. Developing new technologies for the decontamination of toxics from e-waste plastics and convert them into clean polymers, chemicals, or fuels.
ii. Efficient plastic sorting using artificial intelligence (AI) and Laser Induced Breakdown Spectroscopy (LIBS).
iii. Molecular dynamic simulation for dissolution thermodynamics of polymer
iv. Effect of micro and nano particle on the marine animals.

Profile

Diligent engineer with a strong educational background in Chemical Engineering, from IIT Kharagpur and IIT Guwahati, determined to carve out a niche for personal and professional development. • Currently associated with one of the premier institutes of the globe NTU, Singapore as a Research Fellow working on the recovery of electronic waste.

Personal details

Date of birth
March 15th, 1988

Place of birth
Assam, India

Gender
Male

Nationality
Indian

Civil status
Unmarried

LinkedIn
linkedin.com/in/pallab-das-72395a109

Skills

- Matlab
- COMSOL Multiphysics
- MS Office
- Polymer characterisation
- Gas chromatography
- Rheology
- Adobe IL, PS
- COSMO-RS(SCM)

Research Publication

1. Pallab Das and Pankaj Tiwari, 'Thermal degradation kinetics of plastics and model selection', Thermochimica Acta, Vol. 654, pp. 191-202 (2017)
2. Pallab Das and Pankaj Tiwari, 'Valorization of packaging plastic waste by slow pyrolysis,' Resources, Conservation and Recycling, vol. 128, pp. 69-77 (2018)
3. Pallab Das and Pankaj Tiwari, 'The effect of slow pyrolysis on the conversion of plastic waste into fuel', Waste management, vol. 79, pp. 615 – 624 (2018)
4. Pallab Das and Pankaj Tiwari, Thermal degradation study of waste polyethylene terephthalate (PET) under inert and oxidative environment, Thermochimica Acta, vol. 679, Article 178340 (2019)
5. Pallab Das, Jean-Christophe P. Gabriel, Chor Yong Tay, Jong-Min Lee, 2021. Value- added products from thermochemical treatments of contaminated e- waste plastics. Chemosphere, 269, 129409.
6. Chunmiao Jia, Pallab Das, Qiang Zeng, Jean- Christophe P Gabriel, Chor Yong Tay, Jong-Min Lee, Activated recovery of PVC from contaminated waste extension cord- cable using a weak acid, Chemosphere 303 (1), 2022, pg. 134878
7. Chunmiao Jia, Pallab Das, Insup Kim, Yong-Jin Yoon, Chor Yong Tay, Jong- Min Lee, Applications, treatments, and reuse of plastics from electrical and electronic equipment, Journal of Industrial and Engineering Chemistry, 110, 2022, pg. 84-99

References

Dr. Lee Jong-Min
Nanyang Technological University, Singapore
+65 65138129, jmlee@ntu.edu.sg

Dr. Pankaj Tiwari
IIT Guwahati, Guwahati, Assam
+918486918715, pankaj.tiwari@iitg.ac.in

Declaration

I hereby declare that the particulars furnished above are true to the best of my knowledge and belief.

Languages

English

Hindi

Bengali

Hobbies

- Digital Art
- Cooking
- Travelling