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Overview:

Dr. A. Jemila Percy is Working as an Assistant Professor in the Department of Mechanical Engineering at SRMIST, Ramapuram campus. She done her B.E in Mechanical Engineering and M.E in Energy Engineering from St. Xavier's Catholic College of Engineering Nagercoil. She is the First Rank holder in M.E Energy engineering among the affiliated institutions of Anna University Chennai. She has completed her Ph.D. in the field of Gaseous biofuels in IC engines at University college of Engineering Nagercoil. She has a research experience of 3 years and currently in teaching profession. She has published several papers in reputed journals.

Areas of Research:

Thermochemical Conversion of biomass, Dual fuel engines, Gaseous biofuels, Thermodynamic modelling

Publications:

International Journals(WOS/SCI)

- **Jemila Percy A**, Edwin M, 2024, 'A comprehensive review on the production and enhancement techniques of gaseous biofuels and their applications in IC engines with special reference to the associated performance and emission characteristics.' *Science of The Total Environment*, Vol. 934, pp: 173087. <https://doi.org/10.1016/j.scitotenv.2024.173087>. **IF-9.8**. (Publisher- Pergamon Elsevier Science Ltd)
- **Jemila Percy A**, Edwin M, 2023, 'Studies on the performance and emission characteristics of a dual fuel VCR engine using producer gas as secondary fuel: An optimization approach using response surface methodology.' *Energy*, Vol. 263, no.15, pp: 125685. <https://doi.org/10.1016/j.energy.2022.125685>. **IF – 9**. (Publisher- Pergamon Elsevier Science Ltd)
- **Jemila Percy A**, Edwin M, 2023, 'Feasibility assessment and prioritization of renewable energy resources: towards a energy transition for the society and the environment—a case study approach.' *Environment, Development and Sustainability*, <https://doi.org/10.1007/s10668-023-03799-5>. **IF – 4.9** (Springer Nature)
- **Jemila Percy A**, Edwin M, 2023, 'Finite Time Thermodynamic modelling of a multi-fuel engine with producer gas from various biomass feedstocks.' *Thermal Science and Engineering Progress*, Vol. 38, pp: 101632. <https://doi.org/10.1016/j.tsep.2022.101632>. **IF- 4.8**. (Publisher- Elsevier)

- **Jemila Percy A**, Edwin M, 2022, ‘Techno-economic studies on the variable compression ratio dual fuel diesel-producer gas CI engine utilizing different biomass feedstocks.’ *Environmental Progress & Sustainable Energy*, e14024. <https://doi.org/10.1002/ep.14024>. **IF – 2.8**. (Publisher- Wiley)
- **Jemila Percy A**, Edwin M, 2023, ‘Prediction on the Performance Parameters of a Variable Compression Ratio (VCR) Dual Fuel Diesel-Producer Gas CI Engine: An Experimental and Theoretical Approach.’ *Arabian Journal for Science and Engineering*. <https://doi.org/10.1007/s13369-022-07514-w>. **IF – 2.9**. (Publisher- Springer Heidelberg)
- PS Kumar, M Edwin, **AJ Percy**, 2022, ‘Comparative study on pyrolysis characteristics and kinetics of Indian almond fruit and Gracilaria changii seaweed by thermogravimetric analysis.’ *Biomass Conversion and Biorefinery*, 1-16. <https://doi.org/10.1007/s13399-022-03662-z>. **IF-4**. (Publisher- Springer Nature)
- M Edwin, MC Eniyan, **AJ Percy**, 2023, ‘Spiral tube solar water heating computational analysis with concrete absorber: A CFD approach’ *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2023.02.307>. (Publisher- Elsevier Science Ltd)
- M Edwin, **AJ Percy**, MC Eniyan, 2023, ‘Prediction of the emission characteristics of biogas as a supplementary fuel in SI engines using CFD to assess its applicability.’ *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2023.02.247>. (Publisher- Elsevier Science Ltd)

Google Scholar: <https://scholar.google.com/citations?user=RcL9cJQAAAAJ&hl=en>

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