

National and International Journal Publications: Scopus and Peer reviewed

1. **C.R. Babu**, P. Kumar, S. Roy, and R. Ganesan, 2022, A comprehensive review on compound heat transfer enhancement using passive techniques in a heat exchanger. *Materials Today: Proceedings*. Vol 54, pp. 428–436 (Elsevier). [doi:10.1016/j.matpr.2021.09.541](https://doi.org/10.1016/j.matpr.2021.09.541) (Q2, Scopus)
2. **Babu, C. R.**, & Roy, S. 2022, CFD Analysis of a Transient Rotor-Stator Axial Steam Turbine Stage. *Journal of Mines, Metals & Fuels*, 70. <https://doi.org/10.18311/jmmf/2022/32947> (Q3, Scopus)
3. **C.R. Babu**, P. Kumar, S. Roy, D. Kanungo, 2021, CFD analysis of an economizer for heat transfer enhancement using serrated finned tube equipped with variable fin segments. *Materials Today: Proceedings*. Vol 45(1), pp. 222–230 (Elsevier). <https://doi.org/10.1016/j.matpr.2020.10.422> (Q2, Scopus)
4. **Babu, C. Rajesh**, and Prabhath Kumar Hensh. "CFD analysis of a single stage intermediate pressure steam turbine." *Materials Today: Proceedings*, 2020. <https://doi.org/10.1016/j.matpr.2020.09.510> (Q2, Scopus)
5. **Babu, C. Rajesh**, P. Kumar, and G. Rajamohan. "Computational investigation of fluid flow and heat transfer of an economizer by porous medium approach." *Materials Science and Engineering Conference Series*. Vol. 217. No. 1. 2017. [DOI 10.1088/1757-899X/217/1/012028](https://doi.org/10.1088/1757-899X/217/1/012028) (Q3, Scopus)

National and International Conferences:

1. **Chunchula Rajesh Babu**¹, Uriti Srinivas M K Patro, Sukanta Roy, Bhaskor Jyoti Bora, Prabhakar Sharma, Sunil S, "Performance analysis of hydrogen-pongamia biodiesel run dual fuel engine at varying engine load and compression ratio", Trends in Chemical, Energy and Environmental Engineering, ChemEEE-2024, IIPE, Vishakhapatnam India, 19th-21st February 2024.
2. **Chunchula Rajesh Babu**², Uriti Srinivas M K Patro¹, Sukanta Roy, Bhaskor Jyoti Bora, Prabhakar Sharma, Sunil S, "Estimation of performance for ammonia run dual fuel diesel engine at varying operating parameters", Trends in Chemical, Energy and

Environmental Engineering, ChemEEE-2024, IPE, Vishakhapatnam India, 19th-21st February 2024.

3. **C Rajesh Babu**¹, Sukanta Roy², “CFD Analysis on the effect of Increased Clearance for a typical Low Pressure Steam Turbine” *Proceedings of the Sustainable Materials And Recent Trends in Mechanical Engineering* (SMARTME-2023) REVA University, Bengaluru, India, 11th & 12th, August-2023.
4. **C Rajesh Babu**¹, Sukanta Roy², “CFD Analysis of a Transient rotor-stator Axial Steam Turbine Stage” *Proceedings of the Sustainable Materials And Recent Trends in Mechanical Engineering* (SMARTME-2022) REVA University, Bengaluru, India, 8th & 9th, July-2022.
5. **C Rajesh Babu**¹, P Kumar², Sukanta Roy³, Rajamohan Ganesan⁴ “A Comprehensive Review On Compound Heat Transfer Enhancement Using Passive Techniques In A Heat Exchanger” *Proceedings of the Advanced Research in Mechanical, Materials and Manufacturing Engineering* (ICAMMME-2021) REVA University, Bengaluru, India, 9th & 10th, July-2021.