

INTERNATIONAL JOURNAL PUBLICATIONS

1. Jayaram, V., **Dr. Bavanish. B**, Mohammed Fahad, P.A. Azeem Hafiz, Niaz A Salam, “Performance Evaluation of a Mini–Vertical Axis Cross Flow Helical Turbine Meant for Energy Extraction from Dam’s Tailrace”, INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH, Vol.14, No.3, PP. 516-525, September, **2024**
2. Jayaram, V., **Dr. Bavanish. B**, “Design and analysis of gorlov helical hydro turbine on index of revolution”, Digest Journal of Nanomaterials and Biostructures, **2022**, 17(4), pp. 1501–1509 (**SCIE**)
3. Favas, A. S., **Dr. Bavanish. B**, “Thermal and mechanical characterization of polypropylene composite membrane doped with TiO₂ nanoparticles”, Digest Journal of Nanomaterials and Biostructures, **2022**, 17(4), pp. 1501–1509 (**SCIE**)
4. Jayaram, V., **Dr. Bavanish. B**, “ A Brief Study on the Influence of the Index of Revolution on the Performance of Gorlov Helical Turbine”, International Journal of Renewable Energy Research, **2022**, 12(2), pp. 827–845. DOI: <https://doi.org/10.20508/ijrer.v12i2.12880.g8468> (**SCI**)
5. Jayaram, V., **Dr. Bavanish. B**, “A Brief Study on the Implementation of Helical Cross-Flow Hydrokinetic Turbines for Small Scale Power Generation in the Indian SHP Sector”, International Journal of Renewable Energy Development, **2022**, 11 (3), pp. 676–693.
6. Amjith L R, **Dr. Bavanish. B**, “A review on biomass and wind as renewable energy for sustainable environment” Chemosphere, Volume 293, April **2022**, 133579 DOI: <https://doi.org/10.1016/j.chemosphere.2022.133579> (**SCI**)
7. Dennis Dikson, Ganesh P S, Joy Jobin, Amjith L R, **Dr. Bavanish. B**, “Computational design & analysis of vertical axis wind turbine” materials today-proceedings, Volume 66 Page1501-1508 Part3, **2022**, DOI: 10.1016/j.matpr.2022.06.407

8. Mohammed Fahad, **Dr. Bavanish. B**, “Tribological behavior of Az91D magnesium alloy composite: effect of hybrid WC-SiO₂ nanoparticles”, *Industrial Lubrication and Tribology*, Vol. 73 No. 5, pp. 789-795. ISSN: 0036-8792, **2021**, DOI: <https://doi.org/10.1108/ilt-02-2021-0038> (SCIE)
9. Mohammed Fahad, **Dr. Bavanish. B**, “Tribological and ageing behavior of Az91D magnesium alloy fortified with nano lanthanum and nanoceria by stir casting for aviation application”, *Industrial Lubrication and Tribology*, ISSN: 0036-8792, vol. 73 no. 4, pp. 635-641, **2021**, DOI: <https://doi.org/10.1108/ILT-12-2020-0475> (SCIE)
10. Favas, A. S., **Dr. Bavanish. B**, “Increasing Efficiency of Air Handling Unit in Cleanroom Air Conditioning System”, *International Journal of Innovative Science and Research Technology*, ISSN: 2456-2165, vol. 6, **2021**, <https://bit.ly/3yLpwxe>
11. Favas, A. S., **Dr. Bavanish. B**, “CFD investigation of a hospital's Isolated clean room's air flow pattern and particle transport”, *International Journal of Mechanical Engineering*, ISSN: 0974-5823, Vol. 6 No. 3 December, **2021**, https://kalaharijournals.com/resources/DEC_291.pdf
12. Favas, A. S., **Dr. Bavanish. B**, “Rotating thermal wheel performance evaluation in varying circumstances implemented in hospital clean room” *International Journal of Advance and Innovative Research*, ISSN : 2394-7780, Volume 8, Issue 4(I) : October – December **2021**, pp: 285 – 289. <https://iaraedu.com/about-journal/ijair-volume-8-issue-4-i-october-december-2021.php>
13. Jayaram V, **Dr. Bavanish. B**, “A brief review on the Gorlov helical turbine and its possible impact on power generation in India”, *Materials Today; Proceedings*, **2020**, <https://doi.org/10.1016/j.matpr.2020.09.203>
14. Amjith L R, **Dr. Bavanish. B**, “Design and analysis of 5 MW horizontal axis wind turbine”, *Materials Today; Proceedings*, Vol. 37, **2021**, Pg. 3338-3342, <https://doi.org/10.1016/j.matpr.2020.09.202>

15. Amjith L R, **Dr. Bavanish. B**, “Optimization of horizontal axis wind turbine blade using FEA”, Materials Today; Proceedings, Vol. 37, 2021, Pg. 3367-3371, <https://doi.org/10.1016/j.matpr.2020.09.215>
16. Amjith L R, **Dr. Bavanish. B**, “Comprehensive Analysis with Enhanced Resolution of HAWT Blade using CFD”, Applied Sciences, Walailak J Sci & Tech Vol. 18, No. :(17), 2021, 23301, <https://doi.org/10.48048/wjst.2021.23301>
17. Berlin Push, **Dr. Bavanish. B**, “Assessment of Aluminium Metal Matrix Composites – Review”, International Journal of Mechanical and Production Engineering Research and Development ISSN (P): 2249–6890; ISSN (E): 2249–8001, Vol. 10, 2, 2020, Pg. 1121–1128
18. Mohammed Fahad, **Dr. Bavanish. B**, “Synthesis and Characterization of Nano Cerium Dioxide Particles Reinforced with Magnesium Metal Matrix Particles and its Application”, TEST Engineering and Management, 0193-4120, 2020, Pg. 5854 – 5860
19. Mohammed Fahad, **Dr. Bavanish. B**, “Blend and Portrayal of Nano Lanthanum Dioxide particles fortified with Magnesium Alloy and its application”, Journal of Critical Reviews ISSN- 2394-5125, VOL 7, ISSUE 14, 2020, Pg. 2578 – 2583, <http://www.jcreview.com>
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22. Mohammed Fahad, **Dr. Bavanish. B**, “Analysis of replacing Magnesium over Aluminium in Industry”, Int. Journal of Advanced Scientific Technologies, Engineering and

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24. **Bavanish. B**, Dr. K. Thyagarajan, “Aerodynamic performance analysis of a flat plate HAWT” International Journal of Recent Technology and Engineering ISSN : 2277-3878, Vol. 1, (2), 2012, pg. 181 – 191, <https://www.ijrte.org/wp-content/uploads/papers/v1i2/B0236051212.pdf>