

Faculty Profile



Dr. N. Prakash

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Total Experience (in years): 15+

Research Area: Computational Fluid Dynamics, IC Engines, Marine Applications and Autonomous Underwater Vehicle and Aerodynamics

Recent Publications:

1. Numerical Analysis of Nano-particle based coolants in Automobile Radiator, Sathyamurthy, R., Chandran, P., **Prakash, N.**, , SAE Technical Papers 2021, (2021)
2. Investigation on structural analysis of a generative shock absorber using nylon material-**Prakash, N.**, Vuppala, G. K., Maddineni, A. B. P. R., Narra, G., Bhimavarapu, C. R., Chandran, P., & Sathyamurthy, R, 2021, Materialstoday Proceeding Volume 46, Part 1, 2021, Pages 363-368.
3. Design and Optimization of Rear Wheel Assembly for All-terrain vehicle- M. Anthony Bala Paul Raj, Raghavendran Pala Raviramachandran, **N. Prakash**, Bh. Chirudeep Reddy, V. Gopi Krishna, International Journal of Vehicle Structures and Systems, Volume 13 No.3, 2021.
4. An experimental investigation on single cylinder RCCI engine fuelled with diesel/petrol, Jagankumar, K.R., **Prakash, N.**, Prasad, C., ...Dinesh Singh, M., Sathyamurthy, R, Journal of Physics: Conference Series, 2020, 1706(1), 012200.
5. Comparative analysis on freshwater yield from conventional basin-type single slope solar still with cement-coated red bricks: an experimental approach Kabeel, A.E., El-Agouz, E.-S., Athikesavan, M. M., Prakash, N., in Environmental Science and Pollution Research, 2020, 27(26), pp. 32218-32228.
6. Numerical prediction of flow through a P4119 propeller using a hybrid mesh technique-, Roychowdhury, D.G., Muthuvel, A., Chamkha, A.J., Sathyamurthy, R. in International Journal of Fluid Mechanics Research, 2020, 47(4), pp. 291-307
7. Effect of water depth on a novel absorber plate of pyramid solar still coated with TiO₂ nano black paint-A. E. Kabeel., Ravishankar Sathyamurthy., Swellam W. Sharshir., A. Muthumanokar., Hitesh Panchal., **N. Prakash.**, C. Prasad., S. Nandakumar., M. S. El Kady in Journal of Cleaner Production, 2019, 213, pp. 185-191
8. Nano-additive for reducing emission in honge biodiesel-fuelled diesel engine- Balan, K.N., Yashvath, U., **Prakash, N** in International Journal of Ambient Energy, 2019

9. Thermal and hydraulic characteristics of a triangular duct using an Al₂O₃ nanofluid in a turbulent flow regime-Taamneh, Y., Kabeel, A.E., **Prakash, N.**, Sathyamurthy, R., in Heat Transfer - Asian Research, 2019, 48(6), pp. 2639-2654.
10. Computational study of different turbulence models for air impingement jet into main air cross stream- Kabeel, A.E., Elkelawy, M., El-Din, H.A., ...Sathyamurthy, R., **Prakash, N** in International Journal of Fluid Mechanics Research, 2019, 46(5), pp. 459-4765.
11. A review on reducing CO₂ emission in environment to improve human health by CO₂ sequestration process - Balan, K.N., **Prakash, N.**, Yashvanth,, ...Kumar, C.V.D., Dundivinayakasai, K. in Journal of Advanced Research in Dynamical and Control Systems, 2019, 11(2 Special Issue), pp. 2293-2297.
12. Performance analysis of spiral and serpentine tube solar collector with carbon nanotube nanofluids under natural flow method- Kabeel, A.E., El-Agouz, E.-S., **Prakash, N.**, Sathyamurthy, R., Manokar, A.M in Heat Transfer - Asian Research, 2019, 48(6), pp. 2428-2439.