

NAME : **Dr. Prasad C.**

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SPECIALIZATION: (3-4 Areas)

- Experimental and Computational Fluid Dynamics
- Bubble flows
- Internal Combustion Engines
- Renewable energy



EDUCATION:

- B.E (Mechanical Engineering)– M.N.M. Jain Engineering College-Anna University – 2005
- M.E (Internal Combustion Engines) – Hindustan college of Engineering-Anna University- 2008
- PhD (Mechanical Engineering)– Indian Institute of Technology Madras – 2017

FUNDED PROJECTS:

SI NO	Title of the Project	Role	Funding Agency	Amount (INR)	Status
1	Wall climbing reduced sound levels using active noise control	Co-Principal Investigator	ER& IPR, DRDO	60.62 Lakhs	Ongoing
2	Development of an On-line Measurement System for Hydrogen Concentration in Steam Environment	Co-Principal Investigator	AERB, DAE	45.36 Lakhs	Ongoing
3	Development of underwater robot for cleaning the surface buoy	Co-Principal Investigator	INCOIS, Ministry of Earth Sciences	42.47 Lakhs	Submitted
4	Multifunctional Bio-mimetic Underwater Vehicle with Leidenfrost and Electrolysis effect for drag reduction and facility to create water free zone for NDE inspection	Principal Investigator	DOM, Ministry of Earth Sciences	244 Lakhs	Submitted

PUBLICATIONS:

- Sathyamurthy, R., Chandran, P., Prakash, N. (2021). "Numerical Analysis of Nanoparticle based coolants in Automobile Radiator" (No. 2021-01-0819). SAE Technical Paper.
- Prakash, N., Vuppala, G. K., Maddineni, A. B. P. R., Narra, G., Bhimavarapu, C. R., Chandran, P., Sathyamurthy, R. (2020). "Investigation on structural analysis of a regenerative shock absorber using nylon material", Materials Today Proceedings
- Jagankumar, K. R., Prakash, N., Prasad, C., Shridhar, V. A., Singh, M. D., Sathyamurthy, R. (2020, December). "An experimental investigation on single cylinder RCCI engine fuelled with diesel/petrol. In Journal of Physics": Conference Series (Vol. 1706, No. 1, p. 012200). IOP Publishing.
- N, Prakash; A, Muthuvel; Roychowdhury, D.G.; Chandran, Prasad; Sathyamurthy, Prof. Dr. Ravishankar; chamkha, Ali C "Numerical prediction of flow through a P4119 propeller using a hybridmesh technique". International Journal of Fluid Mechanics Research, 2020, 47(4), pp. 29130
- Kabeel, A. E., Ravishankar Sathyamurthy, Swellam W. Sharshir, A. Muthumanokar, Hitesh Panchal, N. Prakash, C. Prasad, S. Nandakumar, and M. S. El Kady, "Effect of water depth on a novel absorber plate of pyramid solar still coated with TiO₂ nano black paint". Journal of Cleaner Production 213 (2019): 185-191.
- Kabeel AE, Prakash N, Prasad C, S Nandakumar, Ravishankar Sathyamurthy "Investigational study on PV panel submerged in the basin of conventional solar still with cover cooling". 5th International Conference on Scientific Research ISR-2019, Tanta, Egypt, 26-29 March 2019.
- Kabeel AE, Kabeel, Abd Elnaby, ElSayed ElAgouz, Nakka Prakash, Chandran Prasad, Ravishankar Sathyamurthy, Athikesavan Muthu Manokar "Performance analysis of spiral and serpentine tube solar collector with carbon nanotube nanofluid under natural flow method". Heat Transfer Asian Research (2019).
- Taamneh, Yazan, Athikesavan Muthumanokar, Abd Elnaby Kabeel, El-Sayed El-Agouz, Ravishankar Sathyamurthy, Prakash Nakka, and Prasad Chandran "Experimental Analysis of Inclined Solar Water Heater with Baffles". Chemical Engineering Transactions 71 (2018): 1339-1344.
- Prasad Chandran, Shamit Bakshi and Dhiman Chatterjee, "Study on the characteristics of hydrogen bubble formation and its transport during electrolysis of water". Chemical Engineering Science 138 (2015): 99-109.
- Prasad C., Shamit Bakshi, Dhiman Chatterjee, "Experimental studies on behaviour of bubble plume", ILASS Europe 2013, 25th European Conference on Liquid Atomization and Spray Systems, Chania, Greece, 1-4 September 2013.
- Prasad C., Subramanian M., "Performance emission and combustion characteristics of oxygenated diesel blends in a single cylinder naturally aspirated diesel engine", NCVAT 08, National level Conference on Advanced Vehicle Technology Chennai, India, 29 February 2008.

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Google Scholar: <https://scholar.google.com/citations?user=kYJ9ywUAAA&hl=en&oi=ao>

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