

**P. SUDHAKAR**

**S/O G. PADMANABHAN**

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**Career Objective:**

To be a part of an organization that provides me opportunities to improve my research and technical competency such that the societal challenges can be addressed in an efficient manner.

**Educational Qualification:**

Course	Institution	University	Year of Passing	% of Marks
<b>Ph.D.</b>	Anna University, Chennai.	Anna University	2019	----
<b>M.Tech. - Solar Energy</b>	SRM University, Chennai.	SRM University	2014	<b>8.3 CGPA</b>
<b>B.E Mechanical</b>	Indira Institute of Engineering & Technology	Anna University	2012	<b>7.3 CGPA</b>
<b>H.S.C</b>	Raja national Mat. Hr. Sec. School.	State Board	2008	<b>78%</b>
<b>S.S.L.C</b>	Kendriya Vidhyalaya H.V.F, Chennai.	C.B.S.E	2006	<b>65%</b>

**Doctoral Thesis Title:**

Operational Efficiency Enhancement of Solar Photovoltaic System through various modes of Cooling

**List of Publications:**

- **Sudhakar P**, Kumaresan G, Velraj R. Experimental analysis of solar photovoltaic unit integrated with free cool thermal energy storage system. Solar Energy 2017: 158; 837-44. (Elsevier **Impact factor: 4.674**)

- G. Kumaresan, **P. Sudhakar**, R. Santosh, R. Velraj, “Experimental and numerical studies of thermal performance enhancement in the receiver part of solar parabolic trough collectors”, Renewable and Sustainable Energy Reviews 2017: 77; 1363-74. (Elsevier **Impact factor: 10.556**)
- V. S. Vigneswaran, G. Kumaresan, **P. Sudhakar**, R. Santosh “Performance evaluation of solar box cooker assisted with latent heat energy storage system for cooking application”, Earth and Environmental Science 2017:67; 012-017. (IOP Conference Series)

#### **List of Conference Publications:**

- V. S. Vigneswaran, G. Kumaresan, **P. Sudhakar**, R. Santosh “Performance evaluation of solar box cooker assisted with latent heat energy storage system for cooking application”, In: 3rd International Conference on Renewable Energy Technologies (ICRET 2017) held at Thammasat University, Thailand, 2017.

#### **Projects Worked:**

- Design and development of solar PV based latent heat thermal energy storage system for medium temperature applications.
- Heat transfer improvement studies in solar concentrating trough collector.
- Analysis and testing of box-type solar cooker with latent heat storage by using PCM.
- Experimental analysis on solar PV operated sensible thermal energy storage for cooking application.
- Experimental study on passive cooling of PV with integration of PCM and water.

#### **References:**

1. **Dr. G. Kumaresan**, Associate Professor, Institute for Energy Studies, Department of Mechanical Engineering, Anna University Chennai, E-mail: gkumaresan75@gmail.com, Contact no. 9444222660.
2. **Dr. R. Velraj**, Professor, Institute for Energy Studies, Department of Mechanical Engineering, Anna University Chennai, E-mail: velrajr@gmail.com, Contact no. 9962537765.

3. **Dr. M. Cheralathan**, Professor, Department of Mechanical Engineering, Kattankulathur Campus, SRM Institute of Science and Technology, E-mail: [cheralathan.m@ktr.srmuniv.ac.in](mailto:cheralathan.m@ktr.srmuniv.ac.in).

**Experience:**

S. No.	Institution	Post held	Duration
1.	College of Engineering Guindy Anna University Chennai	Teaching Fellow	Nov 2020 - Present
2.	College of Engineering Guindy Anna University Chennai	Guest Faculty	06 months (July 2017-Dec 2017)
3.	College of Engineering Guindy Anna University Chennai	Guest Faculty	06 months (July 2016-Dec 2016)

**Areas of Interest:**

- Energy storage
- Heat transfer
- Solar Thermal Systems

**Short Term Courses Attended:**

- ✓ PRO-E, CATIA, ANSYS, AUTOCAD at CADDAM Technologies, Chennai.
- ✓ SOLIDWORKS, GD & T, HYPERMESH at CADD Centre, Chennai.
- ✓ FLUENT at AUFRG, Anna University, Chennai.

**Declaration**

I hereby declare that the above information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particulars.

**Place : Chennai**

**(P.SUDHAKAR)**