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SPECIALIZATION:;

- Hydrogen powered vehicle technology
- Advanced combustion Modes
- Computational analysis of combustion system



EDUCATION:

- Bachelors – Anna University, Chennai – 2015
- Masters – Vellore Institute of Technology, Vellore – 2017
- PhD – Vellore Institute of Technology, Vellore – 2021

PATENTS:

S.No	Title	Year	Status
1	Method for switching a combustion mode from compression-ignition to homogeneous-charge compression-ignition	2022	Published

PUBLICATIONS:

2022-2023 (Journal Articles/Conference proceedings)

- **S. Sathishkumar**, M. Mohamed Ibrahim. Synthesized evaluation of various injection regimens on hydrogen propelled homogeneous charge compression ignition and dual fuel modes for an automotive application, *International Journal of Hydrogen Energy*, <https://doi.org/10.1016/j.ijhydene.2023.03.466>.
- **S. Sathishkumar**, M. Mohamed Ibrahim. Comparison of the hydrogen powered homogeneous charge compression ignition mode with multiple injection schedules and the dual fuel mode using a twin-cylinder engine, *International Journal of Hydrogen Energy*, 46(1);2021:1315-1329.
- **S Sathishkumar**, M. Mohamed Ibrahim. Investigation on the effect of injection schedule and EGR in hydrogen energy share using common rail direct injection dual fuel engine, *International Journal of Hydrogen Energy*, 46(20);2021:11494-11510.
- **S Sathishkumar**, M. Mohamed Ibrahim. Parametric investigation on hydrogen driven homogeneous charge compression ignition mode with advanced diesel injection using

chemical kinetics based numerical model, *International Journal of Hydrogen Energy*,46(40);2021: 21222–21238.

- **S. Sathishkumar**, M. Mohamed Ibrahim. An experimental study on the effect of injection pressure on diesel PCCI engine. *International Journal of Ambient Energy*, DOI:10.1080/01430750.2021.1997802.

BOOKS/BOOK CHAPTERS Published

**S. Sathishkumar**, M. Mohamed Ibrahim. Chapter-9 NO<sub>x</sub> reduction in IC engines through adsorbing techniques, 2022, ISBN no: 978-0-12-823955-1, **Elsevier**

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Google Scholar: <https://scholar.google.com/citations?user=xUrzUI8AAAAJ>

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