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OVERVIEW: -

Dr. R. Thirunavukkarasu is working as an Assistant Professor in the Department of Mechanical Engineering at SRMIST, Ramapuram. He Graduated in Mechanical Engineering from the University College of Engineering, Dindigul, Tamil Nadu, India and secured a Master of Engineering in Thermal Engineering at Sri Ramakrishna Engineering College, Coimbatore, Tamil Nadu, India. He pursued a Ph.D. in Thermal Engineering at Anna University, Chennai, Tamil Nadu, India. He has been in the teaching profession for eight years. He has published several research articles in National and International Journals.

AREAS OF RESEARCH:

Biofuel, IC Engine, e-waste composite, thermal barrier coating, and Thermal Engineering.

AWARDS AND RECOGNITION

He received an award of a "**Certificate of Recognition**" from **Anna University, Chennai**, for publishing the article in the Q1 journal.

FUNDS APPROVED AND RECEIVED

S.NO	Scheme	Funding Sources	Year	Funding Amount/ Rs
1	Student Project	Tamil Nadu State Council for Science and Technology (Tamil Nadu Government)	March 2022	7500
2	Travel Grant	University Grant Commission (UGC)	May 2018	2,02,992.25

PATENT

- ✓ **Heat transfer enhancement using novel absorber design in solar was still**
- ✓ **Glazed Bed Bi-Fluid Solar Photovoltaic Thermal System**
- ✓ **Bi-Fluid Evacuated Tube Collector**

EDITOR

- **Jurnal Inovasi Vokasional dan Teknologi**

- Automotive Experiences – (Scopus) Indonesia

COLLABORATION WITH FOREIGN UNIVERSITY

- Universitas Muhammadiyah Magelang, Indonesia.

BOOK PUBLICATION

S. No.	Book Title	Authors	Publisher
1	Engineering Workshop Laboratory Manual	D. Sathish R. Thirunavukkarasu M. Veeramanikandan	Notion press

JOURNAL PUBLICATIONS

Scopus/Web of Science/SCI

1. **Thirunavukkarasu Raja**, Vadivel Ayyakkannu, and Tamilselvan Rathinasamy, "Experimental Analysis of Mechanical Properties of e-Waste Composite Materials with Dual Glass Fibers" *Journal of Reinforced Plastics and Composites (SAGE)*, 2024, <https://doi.org/10.1177/073168442412450>.
2. **Thirunavukkarasu Raja**, Tamilselvan Rathinasamy, Vadivel Ayyakannu and Muji Setiyo, "An Experimental Optimization of Injection Parameters to Enhance Combustion Characteristics of Engine on Using CE40 Fuel", *Indian Journal of Chemical Technology (IJCT)*, (CSIR and NIScPR), **Vol. 31, May 2024, pp. 383-393 DOI: 10.56042/ijct. v31i3.6646**.
3. **Thirunavukkarasu Raja**, Periyasamy Sivanandi, Sathish Dhandabani, Veeramanikandan Murugan. Exploratory of novel thermal barrier coating on diesel engine performance. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering (**SAGE**). 2023 Jul 27:09544089231190541.
4. **R. Thirunavukkarasu** and S. Periyasamy, "Enhancing Diesel Engine Performance and Balancing Emissions with Effect and Contribution of MgO-ZrO₂ and AT13 Layered Piston. Arabian Journal for Science and Engineering (**Springer**), (2020) DOI 10.1007/s13369-020-04899-4. Volume 45, pages 9699–9707(2020) (**SCI-Index**).
5. **Thirunavukkarasu Raja**, Muji Setiyo, Veeramanikandan Murugan, Sathish Dhandapani, "Analysis of the Temperature Variation of Bizarre Thermal Barrier Coatings and their impacts on Engine" *Automotive Experiences (AE)*, ISSN: 2615-6636 (e) 2615-6202 (p) Vol 6 No 3 (2023).
6. Sathish D, Jegadheeswaran S, Veeramanikandan M, Praveenkumar S, **Thirunavukkarasu R**. Temperature and salt concentration behavior of a compact rectangular salinity gradient solar pond. *J Ther Eng* 2024;10(2):386–395.
7. Karmiadji DW, Gozali M, Setiyo M, **Thirunavukkarasu Raja**, Purnomo TA. Comprehensive Analysis of Minibuses Gravity Center: A Post-Production Review for Car Body Industry. *Mechanical Engineering for Society and Industry*. 2021 Jul 19;1(1):31-40.
8. Thomas Kivevele, **Thirunavukkarasu Raja**, Vahid Pirouzfard, Budi Waluyo, Muji Setiyo, Review Paper "LPG-Fueled Vehicles: An Overview of Technology and Market Trend" *Automotive Experiences* Vol. 3 No.1 (2020) pp.6-19 Available online at <http://journal.ummg.ac.id/index.php/AutomotiveExperiences>.
9. Sathish, D., Veeramanikandan, M., Karthickmunisamy, T., **Thirunavukkarasu, R.**, Tamilselvan, R. "Experimental investigation on portable mini solar pond using sodium chloride salt" *Proceedings of the 2017 2nd IEEE International Conference on Electrical, Computer and Communication Technologies, ICECCT 2017*, 2017, 8118003.

10. **R. Thirunavukkarasu**, M. Mahendran, R. Tamilselvan & Dr. S. Periyasamy "Investigation on Single, Four- and Five-Holes Fuel Injector Nozzle on Performance and Emission Characteristic of Diesel on A VCR Engine by Using Ceramic Coating Material on The Piston Crown" **Elsevier Material Today Proceedings** 5 (2018) 7577–7585.
11. R. Tamilselvan, R. Rameshbabu, **R. Thirunavukkarasu** & Dr. Periyasamy "Effect of Fuel Injection Timing on Performance and Emission Characteristics of Ceiba Pentandra Biodiesel" **Elsevier Materials Today: Proceedings** 5 (2018) 6770–6779.

Web of Science Link: <https://www.webofscience.com/wos/author/record/HOC-4053-2023>

Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=57222009442>

ORCID Link: <https://orcid.org/my-orcid?orcid=0000-0001-9319-3005>

LinkedIn Link: <https://www.linkedin.com/in/dr-thirunavukkarasu-raja-33aa64148/>