

Jason Thamizhakaran S,
No: 128, Mission Compound,
Sainthapuram, Vellore,
Tamil Nadu, India.

✉ sjason94@gmail.com

☎ 0091-81100 03828

SC : [57210566891](https://scopus.com/authorid/57210566891)

ORCID : [AAR-5422-2021](https://orcid.org/0000-0002-3324-5296)

ORCID : [0000-0002-3324-5296](https://orcid.org/0000-0002-3324-5296)



Currently carrying out my Doctoral research in the field of Renewable Energy in the Environmental Management Laboratory, Department of Applied Science and Technology at Alagappa College of Technology Anna University, Chennai.

I have four years of Cumulative Research Experience in bioenergy (Green diesel) production, development of Nano-catalyst by defining its utility in the Renewable Fuel production and Biomethane production with specific emphasis to lignocellulosic biomass.

Academic Qualifications

1. PhD.,

Department of Applied Science and Technology, Alagappa College of Technology, Anna University, Chennai, Tamil Nadu, India **[2021-Till Date]**.

2. M.Tech., Petroleum Refining and Petro-Chemicals (with 7.67 CGPA)

Department of Chemical Engineering, Alagappa College of Technology, Anna university, Chennai, Tamil Nadu, India **[2017-2019]**. *First class*

3. B.Tech., Chemical Engineering (with 6.84 CGPA)

Department of Chemical Engineering, Alagappa College of Technology, Anna university, Chennai, Tamil Nadu, India **[2013-2017]**. *First class*

Publications

1. **Stanley, Jason Thamizhakaran**, Amudha Thanarasu, P. Senthil Kumar, Karthik Periyasamy, Subramanian Raghunandhakumar, Premkumar Periyaraman, Kubendran Devaraj, Anuradha Dhanasekaran, and *Sivanesan Subramanian*.
"Potential pre-treatment of lignocellulosic biomass for the enhancement of biomethane production through anaerobic digestion-A review."
Fuel, Vol. 318, (2022), pp. 123593. [Impact Factor: 8.035]
2. Thanarasu, Amudha, Karthik Periyasamy, **Jason Thamizhakaran Stanley**, Kubendran Devaraj, Premkumar Periyaraman, Anuradha Dhanasekaran, and *Sivanesan Subramanian*.
"Anaerobic codigestion of alkali-pretreated Prosopis juliflora biomass with sewage sludge for biomethane production."
Energy & Fuels, Vol. 33(8), (2019), pp. 7357-7365. [Impact Factor: 4.635]

Academic Assignments:

1. Visiting Scientist Trainee, National Institute for Materials Science, WPI-MANA, Ibaraki, Japan [01/November/2022 - 31/October/2023]

Research projects carried out/involved

1. *"Production of Green Diesel from Biomass"*-Master's Program Research Work
2. *"Production of Biomethane from Lignocellulosic Biomass [Prosopis juliflora] Using Anaerobic Digester"*-Mini Project in Continuation of the Bachelor's Program Research Work
3. *"Kinetic Studies on the Production of Biogas from Lignocellulosic Biomass [Acacia Nilotica] Using Anaerobic Digester"*- Bachelor's Program Research work

Internships/ In-plant Training/Industrial Visits.

1. Chennai Petroleum Corporation Limited, Manali, Chennai, Tamil Nadu, India during 28/May/2018 - 01/June/2018 - In-plant Training
2. Christian Medical College and Hospital, Vellore and Chittoor, India during

27/June/2016 – 1/July/2016 - Internship

3. Manali Petrochemicals Limited, Manali, Chennai, Tamil Nadu, India during 3/December/2014 – 9/December/2014 – Internship
4. Tamil Nadu Edible Oils Pvt. Ltd Chennai, Tamil Nadu, India - Industrial Visit

International Conference

1. *Pyrolysis of Used Cooking Oil in the Presence of Cu-ZSM-5 Nanocatalyst for Green Diesel Production*

Jason Thamizhakaran Stanley, Sivanesan Subramanian

Environmental Management Laboratory, Alagappa College of Technology, Anna University, Chennai-25

International Conference on Health, Energy and Materials (ICHEM'22)

organized by Department of Chemical Engineering, Hindustan Institute of Technology and Science, Chennai in association with IICHE and ABLE held during April 28-29, 2022.

2. *Synthesis and Characterisation of Zr-FTO Catalyst and its Application towards Production Bio-Methanol from Biodiesel Waste*

Yuvarani M, Thiruselvi D, Jason S, Kubendran D, Amudha T, Sivanesan S

Department of Applied Science & Technology, Alagappa College of Technology, Anna University, Chennai 600025, India

2nd International Conference on Advances in Chemistry with Specific Reference to Catalysis, Sensors, Drug Delivery, Energy Materials and Anti-Cancer Studies

organized by Department of Department of Physical Chemistry, School of Chemical Science, University of Madras, Guindy Campus & RUSA 2.0, Chennai – 600 025 held during March 28-29, 2022.

3. *Wastewater Treatment by Novel Nano Crystals to remove The Toxicity and Heavy metals*
Jacklien Emema Rose T.J, Jeny Rachel Biju, Jason Thamizhakaran Stanley, Yuvarani Mani, Amudha Thanarasu, Kubendran Devaraj, Sivanesan Subramanian

Environmental Management Laboratory, Department of Applied Science and Technology, Alagappa College of Technology, Anna University, Chennai-25

2nd International Conference on Advances in Chemistry with Specific Reference to Catalysis, Sensors, Drug Delivery, Energy Materials and Anti-Cancer Studies organized by Department of Department of Physical Chemistry, School of Chemical Science, University of Madras, Guindy Campus & RUSA 2.0, Chennai – 600 025 held during March 28-29, 2022.

4. *Comparative Analysis of the Organic Fractions Municipal Solid Waste (OFMSW) and Lignocellulosic Biomass (Acacia nilotica) Anaerobically Co-Digested with Activated Sludge*

Jason Thamizhakaran Stanley, Sivanesan Subramanian

Environmental Management Laboratory, Alagappa College of Technology, Anna University, Chennai-25

Sixth International Conference on Recent Advancements in Chemical, Environment & Energy Engineering (RACEEE-2022) organized by Department of Chemical Engineering, SSN College of Engineering held during February 24-25, 2022.

National Conference

1. *Carbon Nanoarchitectonics in Fuel Cell Application and Energy Generation*

Jason Thamizhakaran Stanley, Sivanesan Subramanian

Environmental Management Laboratory, Alagappa College of Technology, Anna University, Chennai-25

37th National Convention of Chemical Engineers and National Seminar on Battery Energy Storage System, Organised by Indian Institute of Engineers & Centre for Energy Storage Technologies, Anna University, Chennai held during September 09-10, 2022.

2. *Carbon Nanomaterials as Fuel Cell Components*

Jason Thamizhakaran Stanley, Sivanesan Subramanian

Environmental Management Laboratory, Alagappa College of Technology, Anna

University, Chennai-25

AICTE Sponsored Two Days National Conference on Recent Advances in Mechannical & Petrochemical Engineering, Organised by Department of Mechanical Engineering & Petrochemical Engineering, Mahendra Institute of Engineering and Technology, Namakkal held during September 01-02, 2022.

3. *Green Diesel Production from Biomass*

Jason Thamizhakaran Stanley, Sivanesan Subramanian

Environmental Management Laboratory, Alagappa College of Technology, Anna University, Chennai-25

National Conference on Chemistry and Materials 2019, Organised by Department of Chemistry, Saveetha Engineering College, Chennai held during March 22, 2019.

Professional Specialized Courses / Seminars and Workshops

1. **One Day Awareness Workshop on Intellectual Property Rights & Innovation-2022 (IPR-2022)** conducted by Centre for Intellectual Property Rights, Anna University, Chennai held on September 9, 2022.
2. **International Workshop on Emerging Materials and Modelling for Future Technology** organized by Centre for Nanoscience and Technology, Anna University, Chennai held on September 3, 2022.
3. **Virtual National Workshop on "How to improve authors citations-Phase II** organized by Department of Chemical Engineering, SSN College of Engineering held on June 17, 2022.
4. **Author Workshop on Research Metrics and How to Choose Right Journals to Read and Publish** organized by University Library, Anna University, Chennai-25 and Elsevier Research Solutions held on April 1, 2022.
5. **ALM Endowment Lectures & National Virtual Seminar on Sustainable Waste Management-Practices, challenges and opportunities** organized by Centre for Environmental Studies, College of Engineering Guindy, Anna University,

Chennai held during March 23-24, 2022

6. **SICI (Shastri Indo-Canada International) sponsored online workshop on Next Gen Fuels: A Sustainable Approach** organized by Department of Chemical Engineering, National Institute of Technology, Tiruchirappalli held during March 16-20, 2022
7. **One day International Seminar on Technologies for Energy from Municipal Solid Waste** organized by Centre for Environmental Studies & Centre for Climate Change and Disaster Management, Department of Civil Engineering, Anna University, Chennai-25 and National Solid Waste Association of India held on March 19, 2022
8. **Shastri Indo-Canada International virtual workshop on Advanced Engineering Measures for Controlling the Airborne Disease Transmission in the Built Environment** organized by Vellore Institute of Technology, India and University of Saskatchewan, Canada held during March 15-17, 2022
9. **One Day Workshop on Digital Resources for learning Research Methodology: A Researcher's Perspectives** organized by Department of Chemistry and Educational Multimedia Research Centre (EMRC), Anna University, Chennai-600 025 held on February 25, 2022
10. **Two Day National Workshop on Development of Research Tools and Data Analysis using Statistical Package** organized by Department of Adult and Continuing Education, University of Madras, Chennai-600 005 held during 21-22, February, 2022.
11. **Webinar on Environmental and Health Impacts of Persistent Organic Pollutants (POPs)** organized by Stockholm Convention Regional Centre(SCRC) on POPs for Asian Region & CSIR-National Environmental Engineering Research Institute(NEERI), Nagpur, India held on January 25, 2022.
12. **National Webinar Conference on Ecofriendly Waste Management Options for Sustainable Agriculture** organized by the Centre for Environmental Studies, College of Engineering, Guindy, Anna University, Chennai held during October

21-22, 2021

13. **Two Day Workshop on Industrial Act & Safety Practices in Industries** organised by Department of Applied Science and Technology, A.C. Tech, Anna University, Chennai, India held on March 26-27, 2019.
14. **Short Term Course on Crystalline Materials and Characterisation** conducted by Crystal Growth Centre, Anna University, Chennai held on January 05, 2019
15. **Workshop on Research Methodology and Scientific Writing** organized by Centre for Research, Anna University, Chennai, India held during July 11-12, 2018.
16. **One Day Seminar on Frontiers in Chemical Process Industries** organized by Department of Applied Science and Technology & Indian Institute of Chemical Engineers, Chennai Regional Centre (IICHe-CRC), Anna University, Chennai, India held on March 19, 2018.

Sophisticated Instruments/ Reactor handled

1. Operated several Lab scale 100 ml to 2 L pressure CSTR reactor in Batch mode
2. Gas chromatography (GC) - Shimadzu GC 2014, Japan
3. Gas Chromatography Mass Spectrometry [GC-MS]-Shimadzu QP2020NX(Nexis GC - 2030), Japan
4. UV-VIS Spectrophotometer, Shimadzu-1800, Japan
5. Scanning Electron Microscopy(SEM) with EDS, SNE-4500 M Plus(B), SEC Co.Ltd, South Korea
6. Raman Spectroscopy, NS 240, Nanoscope System, Inc South Korea
7. Electrochemical Workstation [CHI 660D]- Potentiostat/Galvanostat

Skills and Attributes

1. Good digital competence over Microsoft office suite (Word, Spreadsheet, PowerPoint), Origin, ChemCad, MATLAB(Beginner Level), Chem Draw(Beginner Level), Mnova (Mesrelab Research) NMR software and ImageJ
2. Good presentation skill

3. Good organisation skills and interpersonal skills
4. Ability to lead and motivate among peers and effectively work as a team member
5. Work to schedules / deadlines and be committed to quality provisions.

Memberships

1. ASTM International Student Member | From 2018 to Till Date
2. Student Member in Indian Institute of Chemical Engineers(IChE)- A.C.Tech Chapter | From 2015-2019
3. Member in Centre for Entrepreneurship Development-A.C.Tech Anna University | From 2013 to 2017

Personal Profile

Gender: Male

Nationality: Indian

Religion: Christianity

Marital Status: Unmarried

Person with Disability: Yes

Date of Birth: 1st February 1994

Linguistic proficiency: English and Tamil

Fathers Name: Prof. I. Stanley Jones Karunakaran

Mothers Name: Mrs. Sarala Stanley

References

1. Dr S Sivanesan

Professor

Department of Applied Science and Technology

Alagappa College of Technology

Anna University

0091-9444960106

sivanesh1962@gmail.com

2. Dr K Palanivelu

Professor

Centre for Environmental Studies

College of Engineering, Guindy

Anna University

0091-9444907746

kpvelu@gmail.com

I, **Jason Thamizhakaran S**, do hereby state that above furnished details are true and genuine.

Yours Sincerely,

[S. JASON THAMIZHAKARAN]