

## Prof. KANDASAMY JAYARAMAN

### Personal Information

**Email:** jayarama@metu.edu.tr

**Web:** <https://avesis.metu.edu.tr/jayarama>

### International Researcher IDs

ScholarID: 3dm5lwsAAAAJ

ORCID: 0000-0002-4753-6385

Publons / Web Of Science ResearcherID: E-2913-2016

ScopusID: 57208427969

### Research Areas

Engineering and Technology

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering, 2020 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Hydrogen production using aluminum-water splitting: A combined experimental and theoretical approach**  
Kandasamy J., Mutlu R. N., Eroğlu E., KARACA M., TOFFOLI H., GÖKALP İ.  
International Journal of Hydrogen Energy, vol.52, pp.202-211, 2024 (SCI-Expanded)
- II. **Steady and unsteady flow characteristics of dual cavity in strut injection scramjet combustor**  
Rajesh A., Jeyakumar S., Jayaraman K., Karaca M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.48, no.72, pp.28174-28186, 2023 (SCI-Expanded)
- III. **The implications of dual cavity location in a strut-mounted scramjet combustor**  
Rajesh A., Jeyakumar S., JAYARAMAN K., KARACA M., Athithan A. A.  
International Communications in Heat and Mass Transfer, vol.145, 2023 (SCI-Expanded)
- IV. **CFD investigation of shock boundary layer interaction in hypersonic flow and flow control using micro ramps**  
Gupta G., Kumar A. A., Sivakumar R., Kandasamy J.  
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.94, no.6, pp.862-870, 2022 (SCI-Expanded)
- V. **Effect of hydrogen jets in supersonic mixing using strut injection schemes**  
Jeyakumar S., Kandasamy J., KARACA M., Karthik K., Sivakumar R.  
International Journal of Hydrogen Energy, vol.46, no.44, pp.23013-23025, 2021 (SCI-Expanded)
- VI. **Combustion Characteristics of Nanoaluminium-Based Composite Solid Propellants: An Overview**  
JAYARAMAN K., Sivakumar P. M., Zarrabi A., Sivakumar R., Jeyakumar S.  
JOURNAL OF CHEMISTRY, vol.2021, 2021 (SCI-Expanded)
- VII. **Acoustic pressure oscillation effects on mean burning rates of plateau propellants**  
Kathiravan B., Senthilkumar C., Rajak R., Jayaraman K.

COMBUSTION AND FLAME, vol.226, pp.69-86, 2021 (SCI-Expanded)

VIII. **Numerical investigations on the hydrogen jet pressure variations in a strut based scramjet combustor**

Suppandipillai J., Kandasamy J., Sivakumar R., KARACA M., Karthik K.

Aircraft Engineering and Aerospace Technology, vol.93, no.4, pp.566-578, 2021 (SCI-Expanded)

IX. **Combustion mechanism and model free kinetics of different origin coal samples: Thermal analysis approach**

Jayaraman K., KÖK M. V., Gokalp I.

ENERGY, vol.204, 2020 (SCI-Expanded)

## Articles Published in Other Journals

I. **Numerical Investigation on the Inflow Mach Number Variations in a Strut Injected Cavity Based Scramjet Combustors**

Rajesh A., Jeyakumar S., JAYARAMAN K., KARACA M.

International Journal of Fluid Mechanics Research, vol.51, no.6, 2024 (ESCI)

II. **EFFECT OF CATALYZER ON PRIMARY COMBUSTION AND MECHANICAL PROPERTIES OF HIGHLY METALIZED FUEL-RICH PROPELLANTS**

Ramakrishnan M., Chakravarthy S. R., Kandasamy J., Sarathi R.

International Journal of Energetic Materials and Chemical Propulsion, vol.22, no.1, pp.57-75, 2023 (ESCI)

## Metrics

Publication: 12

Citation (WoS): 92

Citation (Scopus): 137

H-Index (WoS): 3

H-Index (Scopus): 5