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., TOFFOLİ H., GÖKALP İ.

International Journal of Hydrogen Energy, vol.52, pp.202-211, 2024 (SCI-Expanded)

II. Influence of cavity and ramp layout on combustion performance in a strut-based scramjet combustor

ATCI M., Jeyakumar S., Sharma P., KARACA M., JAYARAMAN K.

International Journal of Engine Research, 2024 (SCI-Expanded)

III. Performance evaluation of a scramjet engine utilizing varied cavity aft wall divergence with parallel injection in a reacting flow field

Maheswaran N., Jeyakumar S., JAYARAMAN K., KARACA M.

International Journal of Turbo and Jet Engines, 2024 (SCI-Expanded)

IV. 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)

V. 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)

VI. 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)

VII. 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)

VIII. 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)

IX. 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)

X. 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)

XI. 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: 14

Citation (WoS): 92

Citation (Scopus): 137

H-Index (WoS): 3

H-Index (Scopus): 5