

Journal of the Korean Society of Propulsion Engineers

Vol. 30, No. 4

August 31, 2026

RESEARCH PAPERS

1. A Study on the Characteristics of Infrared Signal in the Jet Engine Exhaust Plume with Bleed Air Mixing
Bogyu Choi, Seong Man Choi --- 1
2. Effect of NiCoCrAlY/NiCoCrAlYHfSi Bond Coat Mixing Ratio on the Thermal Cycling and Isothermal
Oxidation Performance of Thermal Barrier Coatings
Hansol Kwon, Sang-hyun Park, Eungsun Byon, Sunghun Lee, Yeon Woo Yoo, Yong-Jin Kang,
Hunkwan Park, Youngjin Park, Se-Yun Kim, Do Hyun Kim --- 13
3. Flow Characteristics of Kerosene Fuel in a Heated Tube at Different Temperatures
Si Hyung Lee, Geon Wook Yim, Hyoung Jin Lee, Hojin Choi --- 23
4. A Study on the Derivation of Performance Maps for Micro Gas Turbine Engine Components Based on
Experimental Data
Jaehyun Baek, Seunghoon Lee, Sangyoon Lee, Hyoung Jin Lee --- 32
5. Experimental Study on Supersonic Combustion of Kerosene for Different Cavity Geometries
Geon Wook Yim, Hyoung Jin Lee, Hojin Choi --- 42
6. Design and Verification of a Depressurization System for Liquid Nitrogen Densification for Liquid Oxygen
Subcooling
Janghwan Lee, Yongwook Kim, Youngsung Ko --- 54
7. Acoustic Analysis of a Gas Turbine Combustor Using a Mean Flow Coupled 3D FEM Approach
Jaewoo Jang, Sojung Park, Youngbin Yoon, Daesik Kim --- 64
8. Evaluation of Fuel-Rich Combustion Characteristics of Paraffin Solid Fuel with a Helical Port
Seungbin Baek, Suhan Ko, Seunghyun Kim, Yunho Kim, Hasang Jeon, Heejang Moon --- 73