



<b>Numerical Study and Performance Analyses of Mems-Based Particle Velocity Sensor with Combined Inclined Rib Pair</b>	ZHU Linhui, ZENG Yibo, GUO Hang	1503
<b>Performance Evaluation on the In-Cylinder Heat Transfer of a Reciprocating Compressor using CO<sub>2</sub> as a Working Fluid</b>	LIU Zhan, YANG Xuqing, YANG Xiaohu, ZHAI Hongyan, DUAN Zhenya	1518
<b>Numerical and Experimental Investigation on the Performance of Battery Thermal Management System Based on Micro Heat Pipe Array</b>	YANG Lulu, XU Hongbo, ZHANG Hainan, CHEN Yiyu, LIU Ming, TIAN Changqing	1531
<b>An In-Situ MRI Method for Quantifying Temperature Changes during Crystal Hydrate Growths in Porous Medium</b>	ZHANG Lunxiang, SUN Mingrui, WANG Tian, YANG Lei, ZHANG Xiaotong, ZHAO Jiafei, SONG Yongchen	1542
<b>Enhancement of Natural Convection for Cooling Active Antenna Unit Device in 5G Base Station</b>	ZHANG Dexin, DING Bin, ZHU Chuanyong, GONG Liang	1551
<b>Experimental Study on the Penetration of Diesel and Biodiesel Spray Liquid Emerging from an Equilateral Triangular Orifice under Evaporative Conditions</b>	YIN Bifeng, YE Ze, JIA Hekun, YU Shenghao, DENG Weixin	1565
<b>Numerical Research on Effect of Sudden Cross-Section Expansion on Detonation Initiation</b>	JIA Xiongbin, ZHAO Ningbo, MAXWELL Brian, CHEN Xiang, ZHENG Hongtao	1575
<b>Thermodynamics-Acoustics Coupling Studies on Self-Excited Combustion Oscillations Maximum Growth Rate</b>	ZHAO Dan	1591
<b>Kinetic Analysis on Pyrolysis Characteristics of Butene Isomer Fuels with CO<sub>2</sub> Additions</b>	CHEN Chen, ZHAO Rui, YING Yaoyao, LIU Dong	1604
<b>Sensitivity Analysis of Pollutants and Pattern Factor in a Gas Turbine Model Combustor due to Changes in Stabilizing Jets Characteristics</b>	BAZDIDI-TEHRANI Farzad, TEYMOORI Alireza, GHIYASI Mehdi	1622
<b>Mechanistic Insights into Effects of Outer Stage Flare Angle on Ignition and Flame Propagation of Separated Dual-Swirl Spray Flames</b>	YANG Siheng, HUI Xin, ZHANG Chi, QIAN Weijia, GAN Xiaohua	1642
<b>Simulation of Combustion Flow of Methane Gas in a Premixed Low-Swirl Burner using a Partially Premixed Combustion Model</b>	XIAO Caiyuan, OMIDI Milad, SURENDAR A., ALIZADEH As'ad, BOKOV Dmitry O., BINYAMIN, TOGHRAIE Davood	1663
<b>Numerical Investigation of the Load Distribution between the Main Blade and the Splitter Blade in a High-Loading Centrifugal Compressor</b>	OU Jun, JIN Donghai, GUI Xingmin	1682
<b>Cooling Performance of the Endwall Vertical Hole Considering the Interaction between Cooling Jet and Leading-Edge Horseshoe Vortex</b>	CHEN Ziyu, SU Xinrong, YUAN Xin	1696
<b>Aerodynamic Comparison between Increasing Cascade Pitch and Turning Angle in the Highly-Loaded Design</b>	ZHOU Xun, XUE Xingxu, DU Xin, LUO Lei, WANG Songtao	1709
<b>Flow Control Effect of Spanwise Distributed Pulsed Arc Discharge Plasma Actuation on Supersonic Compressor Cascade Flow</b>	SHENG Jiaming, WU Yun, ZHANG Haideng, WANG Yizhou, TANG Mengxiao	1723
<b>Characterization of Swirling Inflow Effects on Turbine Performance under Pulsating Flows</b>	DING Zhanming, WANG Cuicui, ZHANG Junyue, LIU Ying, HOU Linlin, ZHUGE Weilin, ZHANG Yangjun	1734
<b>Effect of Nozzle Vane and Rotor Clearance on Performance of Variable Nozzle Turbine</b>	LEI Xinguo, LI Renfu, XI Zhaojun, YANG Ce	1745
<b>A Novel Model for CFD-Based Throughflow Analysis of Film-Cooled Turbine Blade</b>	MAO Yinbo, CHEN Ziyu, SU Xinrong, YUAN Xin	1759
<b>Effect of Squealer Tip with Deep Scale Depth on the Aero-thermodynamic Characteristics of Tip Leakage Flow</b>	BI Shuai, WANG Longfei, WANG Feilong, WANG Lei, LI Ziqiang	1773
<b>Numerical Investigation of a Turbine Stator with Nonaxisymmetric Endwall Profiling</b>	LIU Wei, WANG Songtao, WEN Fengbo	1790
<b>Comparison of Flow Mechanism of Blade Sweep between a Transonic Single Rotor and a Rotor in Stage Environment</b>	CAO Zhiyuan, GAO Xi, LIANG Yuyuan, HUANG Ping, LEI Peng, LIU Bo	1804
<b>Brief Information for Authors</b>		1820