JOURNAL OF THERMAL SCIENCE CONTENTS

Volume 33, No. 3, May-June 2024

Special Column for the 9th Asian Joint Workshop on Thermophysics and Fluid Science 2022 (AJWTF 2022)	793
SURYAN Abhilash, YAGA Minoru, SUN Dakun	
Analysis of the Oscillatory Flows of Multiple Shock Waves in a Constant Area Duct	794
K JAMES Jintu, KIM Heuy Dong	
Effect of Fluidic Diode on Performance of Unidirectional Impulse Turbine	807
DODDAMANI Hithaish, ABDUS Samad, MANABU Takao, SHINYA Okuhara, M M ASHRAFUL Alam	
Effect of End Shape on Flow and Heat Transfer Characteristics of Two Parallel Plates	815
ZHANG Guang, HONG Tianxiao, WANG Dongrui, XIN Jialin, TAO Junyu, LIN Zhe	
Influence of Vanes and Blades on Ingress in Axial Rim Seal for Turbine Stages	833
REN Ran, DU Qiang, LIU Guang, ZENG Yanlian, XIE Lei	
Natural Convection Melting in a Rectangular Heat Storage Tank of Carbon Nanotube Dispersed	847
Latent Heat Storage Material	
Shin-ichi MORITA, Tomoya SAITO, Kazunori TAKAI, Yasutaka HAYAMIZU, Naoto HARUKI	
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	»»»»»
A Methodology for Assessing Axial Compressor Stability with Inlet Temperature Ramp Distortion	856
SUN Dakun, GU Benhao, NING Fangfei, FANG Yibo, DONG Xu, XU Dengke, SUN Xiaofeng	
Design Strategy of Diagonal Compressors in Compressed Air Energy Storage System	872
ZHANG Yuxin, ZUO Zhitao, GUO Wenbin, LIANG Qi, CHEN Haisheng	
Numerical Simulation Study on Influence of Equation of State on Internal Flow Field and	888
Performance of S-CO₂ Compressor	
ZHANG Lei, YANG Zhenyu, SUN Enhui, ZHANG Qian, AN Guangyao, YUAN Wei	
Stall Evolution Mechanism of a Centrifugal Compressor with a Wide-Long Vaneless Diffuser	899
ZHANG Lei, KANG Jiacheng, LANG Jinhua, AN Guangyao, ZHANG Qian, WANG Longyao, WANG Qifang	
Multi-Objective Multi-Variable Large-Size Fan Aerodynamic Optimization by Using Multi-Model	914
Ensemble Optimization Algorithm	
XIONG Jin, GUO Penghua, LI Jingyin	
Multi-Objective Optimization Based on Life Cycle Assessment for Hybrid Solar and	931
Biomass Combined Cooling, Heating and Power System	
LIU Jiejie, LI Yao, MENG Xianyang, WU Jiangtao	
Design Research of a Novel Aftercool-Humidifier Concept for Humid Air Turbine Cycle	951
ZHANG Junzheng, XU Zhen	
New Hybrid CHP System Integrating Solar Energy and Exhaust Heat Thermochemical Synergistic	970
Conversion with Dual-Source Energy Storage	
QIN Yuanlong, LIU Taixiu, LI Peijing, ZHAO Kai, JIAO Fan, PEI Gang, LIU Qibin	
Application of Response Surface Methodology for Analysing and Optimizing the Finned Solar Air Heater	985
Vineet SINGH, Vinod Singh YADAV, Vaibhav TRIVEDI, Manoj KUMAR, Niraj KUMAR	
Thermo-Flow Performances for the Main-Auxiliary Integrated Natural Draft Dry Cooling System	1010
ZHANG Zongyang, HOU Yichen, ZHOU Hanyu, JIA He, CHEN Lei, KONG Yanqiang, WANG Weijia, YANG Lijun, DU Xiaoze	
····- — — — — — — — — — — — — — — — — —	

Numerical Analysis on Charging Performance of the Macro-Encapsulating Co	mbined Sensible-Latent 1	1026
Heat Storage System with Structural Parameters		
WANG Wei, PAN Zhenfei, WANG Jingfu, WU Yuting, MA Chongfang		
Efficiency-based Pareto Optimization of Building Energy Consumption and T	hermal Comfort: 1	1037
A Case Study of a Residential Building in Bushehr, Iran		
Masoud NASOURI, Navid DELGARM		
Investigations of Water Flow Behaviors Induced by Local Temperature Variation	ons through a	1055
Single Rough Fracture for the Enhanced Geothermal Systems		
LI Jiawei, YE Lin		
Comprehensive Exergoeconomic Analysis and Optimization of a Novel Zero-	Carbon-Emission 1	1065
Multi-Generation System based on Carbon Dioxide Cycle		
SUN Yan, LI Hongwei, WANG Di, DU Changhe		
A Sustainable Strategy for Spent Cathode Carbon Blocks Hazardous Waste R	ecycling Using Binary Molten 1	1082
Salt Thermal Treatment		
LI Bin, DING Yan, JIAO Yuyong, XU Fang, WANG Xinyang, ZHENG Fei, ZOU	Junpeng, GAO Qiang, HU Hongyu	un
Experimental Investigation on Solution Regeneration Performance and Coeff	icients in Full-Open 1	1094
System for Heat and Water Recovery of Flue Gas		
WEI Hongyang, HUANG Shifang, MA Yuxin, CHEN Bo, SUN Li, ZHANG Xiaos	song	
Analysis and Modeling of Calendar Aging and Cycle Aging of LiCoO ₂ /Graphit	e Cells 1	1109
WANG Wei, YUAN Baoqiang, SUN Qie, WENNERSTEN Ronald		
Comparative Experimental Study on Heat Transfer Characteristics of Building	Exterior Surface at High and	1119
Low Altitudes		
JIA Yonghong, GUO Shurui, LI Jin, GUO Lei, CHENG Zhu, ZHANG Yin, YANG	Hanyu, LONG Enshen	
Heat Transfer and Friction Characteristics of Printed Circuit Heat Exchangers	with Different Channel	1132
Structures for S-CO ₂ Power System		
JIANG Tao, LI Mingjia		
Heat Transfer Characteristics of a Microchannel Heat Sink with Highly-Dense	Micro-Jet Arrays	1148
ZHANG Yu, CHEN Xiaoyan, MIAO Lin, CHEN Liang, HOU Yu		
A New Excess Free Energy Mixing Rule for Representing Vapor-Liquid Equili	bria of Mixed Refrigerants	1161
YE Gongran, FANG Yibo, YAN Yuhao, LIU Ying, OUYANG Hongsheng, GUO	Zhikai, HAN Xiaohong	
Flow Boiling Heat Transfer Characteristics and Delayed Dry-Out Ability of No	n-Azeotropic Mixtures 1	1174
R245fa/R134a in Microchannels		
LU Yongjie, LING Yongjun, ZHUANG Yuan, LI Chenyang, OUYANG Hongsher	ıg, HAN Xiaohong	
Laminar Flame Instability of n-Hexane, n-Octane, and n-Decane in Spherical I	Expanding Flames 1	1189
YIN Geyuan, HU Erjiang, LI Xiaotian, LV Xin, HUANG Zuohua		
On the Intelligent Optimization of the Crevice Structure in a Rapid Compress	on Machine 1	1200
GUO Qiang, LIU Jie, WU Yingtao, WANG Hewu, TANG Chenglong, YU Ruigu	ang	
Dynamic Modeling of Key Operating Parameters for Supercritical Circulating	Fluidized Bed Units 1	1216
based on Data-Knowledge-Driven Method		
YU Haoyang, GAO Mingming, ZHANG Hongfu, CHEN Jiyu, LIU Jizhen, YUE (Guangxi	
Influence of Mixture Gas Conditions on the Laminar Combustion Characteris	tics of Natural Gas 1	1231
LOU Diming, ZHU Kan, ZHANG Yunhua, REN Yedi, TAN Piqiang, FANG Liang	ı, FAN Lanlan	
Combustion and Self-Desulfurization Characterization of Blended Low-Rank	Coals for Improved 1	1242
Resource Utilization in Fluidized Bed Boilers		
SU Lipeng, ZHANG Cong, ZHANG Yongsheng, WANG Tao, WANG Jiawei		