

Contents

1) In memoriam: Professor Marian Trela (1941–2025), Deputy Editor-in-Chief of Archives of Thermodynamics (2006–2021)	5–6
2) Jan A. Stąsiek, Michał E. Klugmann, Dariusz P. Mikielwicz Liquid crystal thermography supported by PIV and DII as modern and unique tools for technical and biomedical research and diagnosis – mini review	7–24
3) Asmaa Guelib, Djallel Zebbar, Zakaria Rahmani, Souhila Zebbar, Kouider Mostefa, Sahraoui Kherris, Said Mekroussi Comprehensive optimization of a novel thermo-hydraulic machine for mechanical power generation.....	25–36
4) Mohammad Reza Goodarzi, Hojat Ghassemi Numerical investigation on vapour-liquid equilibrium and gas solubility in hydrocarbons for binary and ternary systems	37–48
5) Jan Kindracki, Michał Romanowski Normal and failure operation mode of resistojet thruster – experimental research on the laboratory model	49–54
6) Xiang Zhou, Dewen Kong, Teng Ren Investigations of the influence of leakage and diffusion of hydrogen-doped natural gas pipelines by numerical simulation.....	55–60
7) Nirmalendu Biswas, Dipak Kumar Mandal, Nirmal K. Manna, Ali Cemal Benim Thermomagnetic convection and entropy generation in a hybrid nanofluid filled wavy-walled cavity heated non-uniformly	61–81
8) Baradi Lavanya, Gosukonda Srinivas, Baluguri Suresh Babu, Oluvole Daniel Makinde Numerical Analysis of Heat Transfer of CuO-Water Nanofluid Through a Square Channel with Heated Inner Triangular Groove	83–96
9) Youcef Maalem, Hakim Madani Performance Characteristics Investigation of a Solar Rankine Cycle Powered Air Conditioning System for Residential Buildings using Low GWP Working Fluids.....	97–107
10) Stefan Reszewski, Tomasz Hałon Heat recovery from large scale brewery cooling system	109–115
11) Hakim T. Kadhim, Munadhil Aldamaad Achieving optimum performance in a split air conditioner by using evaporative cooling	117–122
12) Taynara G. S. Lago, Beatriz R. P. Padilha, Felipe S. Teixeira, João A. Lima, Adriano S. Marques, Carlos M. S. Santos Thermodynamic modeling of a power generation plant using solar concentrators assisted by organic Rankine cycle for João Pessoa city, Brazil	123–134
13) Haicheng Qi A study on ceramic sintering preparation process and properties with the addition of silicon carbide foaming agent	135–139

14) Wojciech Angielczyk	
Physical and mathematical problems of 1D modelling of transonic two-phase flow in a convergent-divergent nozzle	141–154
15) Vikash Kumar Gorai, Mukesh Kumar, Rahul Singh, Mukesh Kumar Sahu	
Theoretical Investigation for optimal thermal and thermodynamic performance of flat plate solar collector with nanofluids	155–167
16) Akashdeep Negi, Lalit Ranakoti, Prabhakar Bhandari, Saurabh Aggarwal, Rajesh P. Verma, Ankur Singh Bist, Arun Uniyal, Shivasheesh Kaushik, Nikhil Kanojia, Ayushman Srivastav	
Yield augmentation by integrating jute wick in a single slope solar still: an experimental study.....	169–176
17) Ganga Chauhan, Vijay Singh Bisht, Prabhakar Bhandari, Sandeep Singh, Rahul Shukla, Lalit Ranakoti, Ankur Singh Bist	
Numerical investigation of heat transfer enhancement in a double pipe heat exchanger using tangential perforated ring turbulators	177–184
18) Marta Bątkiewicz-Pantuła	
The influence of seasonality of microgrids connected to the power system on selected power quality parameters.....	185–191
19) Anli Shang, Hanlin Song, Zheshu Ma	
Exergetic performance analysis of a direct ammonia-fed solid oxide fuel cell.....	193–200
20) Rudrappa Mahesha, Narasappa Nalinakshi, Thavada Sravan Kumar	
Numerical study of radiative MHD hybrid nanofluid flow through porous concentric cylinders	201–208