

International Journal of Thermodynamics

Editor-in-Chief

L. Kuddusi

Honorary Editors

A. Bejan

M. J. Moran

J. Szargut

G. Tsatsaronis

A. Valero

M. R. von Spakovsky

Abstracting and Indexing:

Chemical Abstracts Services, Copernicus, DOAJ, EBSCO, Emerging Sources Citation Index, Engineering Index, Google Scholar, Scopus, and ULAKBIM



*International Centre for
Applied Thermodynamics*

Editor-in-Chief

Prof. Dr. Lütfullah KUDDUSİ

Associate Editor-in-Chief

Assoc. Prof. Dr. Patrice ESTELLÉ

Prof. Dr. Enrico SCIUBBA

Associate Editor

Prof. Dr. Ali KOSAR

Prof. Dr. Derya Burcu ÖZKAN

Prof. Dr. Mustafa ÖZDEMİR

Prof. Dr. Ahmet DURMAYAZ

Assoc. Prof. Dr. Onur TAYLAN

Prof. Dr. Mehmet ARİK

Prof. Dr. Ayşegül ABUŞOĞLU

Prof. Dr. G. Reza VAKİLİ-NEZHAAD

Prof. Dr. Bayram ŞAHİN

Assoc. Prof. Dr. Murat ÇAKAN

Editorial Board

Prof. Dr. Yasar DEMİREL

Prof. Dr. Lütfullah KUDDUSİ

Prof. Dr. Ahmet DURMAYAZ

Prof. Dr. Derya Burcu ÖZKAN

Prof. Dr. Mustafa ÖZDEMİR

Prof. Dr. Ali KOSAR

Prof. Dr. Mehmet ARİK

Assoc. Prof. Dr. Abdussamet SUBASI

Prof. Dr. Daniel FAVRAT

Prof. Silvia Azucena NEBRA

Prof. Dr. Luis SERRA

Assoc. Prof. Dr. Onur TAYLAN

Prof. Dr. Francois MARECHAL

Prof. Dr. Gian Paolo BERETTA

Prof. Dr. Ayşegül ABUŞOĞLU

Prof. Dr. Abel HERNANDEZ-GUERRERO

Prof. Dr. Silvio DE OLIVEIRA JUNIOR

Prof. Dr. Sean WRIGHT

Prof. Dr. Nilufer EGRİCAN

Prof. Dr. G. Reza VAKİLİ-NEZHAAD

Prof. Dr. Bayram ŞAHİN

Prof. Dr. Vittorio VERDA

Assoc. Prof. Dr. Murat ÇAKAN

International Journal of Thermodynamics

<https://dergipark.org.tr/tr/pub/ijot>

Publishing Editor

Assoc. Prof. Dr. Abdussamet SUBASI

Assist. Prof. Dr. Mustafa Yasin GÖKASLAN

Res. Assist. Ali Murat BİNARK

Res. Assist. Kasım ERDEM

Language Editor

Assoc. Prof. Dr. Abdussamet SUBASI

Journal Contacts

Editor-in-Chief

Prof. Dr. Lütfullah Kuddusi

ISTANBUL TECHNICAL UNIVERSITY

kuddusi@itu.edu.tr

*Department of Mechanical Engineering
Istanbul Technical University
Gumussuyu, 34437 Istanbul Turkey*

Volume: 28

Issue: 1

Web: <https://dergipark.org.tr/tr/pub/ijot>

International Journal of Thermodynamics (IJoT)

ISSN:1301-9724 / e-ISSN:2146-1511

CONTENTS

Research Article

1. Excess Molar Viscosities and Excess Molar Gibbs Energies of The Mixtures of Tire Pyrolytic Oil + Diesel Fuel at 293.15 K and 303.15 K 1-6

U. S. Vural

Research Article

2. Exact Thermodynamic Solution of Gas Behavior in Propellant Tanks and Storage Capsules During Pressurization 7-16

M. Mohseni

Research Article

3. 3E Analysis of a Hybrid Biomass / Solar System for Power Generation and Desalination 17-28

E. M. Leal, E. A. Teixeira

Research Article

4. General Thermodynamically Unification of the First and Second Laws of Thermodynamics 29-34

S. Shahsavari, S. M. A. Boutorabi