# WSEAS Transactions on Heat and Mass Transfer

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Acceptance Rate = C/D where: C = the number of accepted papers, D= the number of submitted papers. Withdrawn Papers are not considered for the numbers C and D.

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#### **Topics**

Heat and mass transfer Simulation, Modeling and Experimental Research in heat and mass transfer Refrigeration Air-Conditioning Simulation, Modeling and Experimental Research in Refrigeration and Air-Conditioning Transport Phenomena Mathematical Physics problems Diffusion convection Conduction problems Internal Combustion Engines Combustion Steam Generators Thermal Installations Steam-turbines Steam-generators Natural and forced convection Phase change Metal casting Welding, forging and other processes Heat exchangers Bio-heat transfer problems Heat Engineering and Electroscience Micro and Nano Scale Heat Transfer Turbulent heat transfer Heat storage Electronic cooling Air pollution modeling Urban air pollution Transport emissions Global and regional studies Climatology Indoor pollution Pollution engineering Aerosols and particles Emission of Pollutants from Thermal Engines Biogenics, agriculture and landfill emissions Environmental protection Management of heating resources Geoscience Solar Energy Thermal Applications of Solar Energy Renewable energy Industrial applications Energy applications Natural resources Surface/Groundwater resources Soil and rock properties Mineral resources Geological chemistry Atmospheric chemistry Health effects Remote sensing Waste Management Solid Waste Processing Waste pre-treatment Waste Storage Waste Compaction Recycling Bio-Recycling Waste Logistics Water protection Clean Technologies Thermal Pollution in Ecosystems Coastal erosion and sedimentation Sea protection Sea Science Coastal protection Harbours and marinas protection Risk analysis Food contamination Chemical risk assessment Alternative Fuels Social and economic issues

### Articles:

Volumetric and Wall Non Grey Gas Entropy Creation in a Cylindrical Enclosure

Authors: Faycal Ben Nejma, Akram Mazgar, Kamel Charrada

Modeling of a Thermoelement with Segmented Legs for RTG Applications

Authors: M. Lazard, J. P. Roux, A. A. Pustovalov, H. Scherrer

Radon-222 Accumulation in Air Confined by Phosphogypsum-Bearing Boundaries: Simulation for Distinct Exhaling Scenarios

Authors: Jose A. Rabi, Nivaldo C. Silva

Theoretical and Numerical Analysis of Fuel Droplet Vaporisation at High Temperatures

Authors: Habib Merouane, Abdelhamid Bounif

Blow-up Solutions for a Degenerate Parabolic Problem with a Localized Nonlinear Term

Authors: P. Sawangtong, B. Novaprateep, W. Jumpen

Dufour and Soret Effects on Heat and Mass Transfer in a Micropolar Fluid in a Horizontal Channel

Authors: Faiz Awad, Precious Sibanda

Biogas Production through Anaerobic Fermentation, based on Different Waste Biomass

Authors: Adrian Eugen Cioabla, Ioana Ionel

Research Regarding the Variation of the Cost of Fluido-Dynamic Lost Energy on a Pneumatic Network of Compressed Air

Authors: Nan Marin Silviu, Petrilean Dan Codrut, Marian Dumitru

Study Regarding the Influence of the Plate Heat Exchanger Configuration on its Performance

Authors: Roxana Grigore, Sorin Popa, Aneta Hazi, Gheorghe Hazi

**Energy Analysis of Low Temperature Heating Systems** 

Authors: Ioan Sarbu

<u>Upgrading of a Heating Plant in Central Heating System</u>

Authors: Ioan Sarbu, Emilian Valea

Experimental and Numerical Approach of the Thermal Conductivity of Building Facade Materials

Authors: Monica Chereches, Catalin Popovici, Nelu-Cristian Chereches

The Stability of Fire Extinguishing Rocket Motor

Authors: Teodor-Viorel Chelaru, Cristina Mihailescu, Ion Neagu, Marius Radulescu

Effecienty Solutions to Refresh the Air in Rooms with the Heat Releases

Authors: Marius-Constantin Popescu, Nikos E. Mastorakis, Jean-Octavian Popescu

<u>The Effects of Suction and Injection on a Moving Flat Plate in a Parallel Stream with Prescribed Surface</u>
<u>Heat Flux</u>

Authors: Norfifah Bachok, Anuar Ishak

<u>Hyperbolic Heat Equation as Mathematical Model for Steel Quenching of L-shape and T-shape Samples,</u> Direct and Inverse Problems

Authors: Tabita Bobinska, Margarita Buike, Andris Buikis

Numerical Simulation of Thermal Profile By Gas Tungsten Arc Welding Process in Copper

Authors: A. Moarrefzadeh, M. A. Sadeghi

**Energetical Optimization of Central Heating Systems** 

Authors: Ioan Sarbu

<u>Heat Pumps – Efficient Heating and Cooling Solution for Buildings</u>

Authors: Ioan Sarbu, Calin Sebarchievici

<u>Effects of Thermal Radiation and Free Convection Currents on the Unsteady Couette Flow Between Two</u> Vertical Parallel Plates with Constant Heat Flux at one Boundary

Authors: M. Narahari

<u>Heat and Mass Transfer of a Non-Newtonian Fluid Flow over a Permeable Wedge in Porous Media with Variable Wall Temperature and Concentration and Heat Source or Sink</u>

Authors: Ali J. Chamkha

Stabilization Operation Region and Operational Variables Effect on a Reciprocal Flow Burner

Authors: Valeri Bubnovich, Luis Henriquez, Catalina Diaz, Emilio Avila