Day	Time	Main Hall / A	Room-B	Room-C	Room-D	Room-E
DAY-1 (MAY 20)	09:00-09:45	**PLENARY SESSION: Prof. Ali Beskok (MAIN HALL)** **From Atoms to Flow: Exploring Evaporation and Condensation in Nano-Channels** **Chair: Prof. Barbaros Çetin**				
	09:45-10:00	**COFFEE BREAK**				
	10:00-12:00	**S1-A: Thermal Management/Electronics Cooling** **Chair:** Prof. Damena Agnofer **MAIN HALL**	**S1-B: Numerical Heat Transfer - I** **Chair:** Prof. Andrey Kuznetsov **Room-B**	**S1-C: Energy Systems** **Chair:** Prof. Prof. Tassos G. Karayiannis **Room-C**	**S1-D: Multi-phase Modeling - I** **Chair:** Prof. Ali Cemal Benim **Room-D**	**S1-E: Multiphysics Modeling** **Chair:** Prof. Kerem Pekkan **Room-E**
		[074] Performance Analysis of Wavy Microchannels: A Comparative Study of Traditional and Manifold Microchannels for Electronic Cooling	[213] Numerical Simuation on Liquid Metals Flowing through Rough Parallel Plates with Uniform Heat Flux Heating	[154] Experimental Analysis and Dynamic Energy Model of a Gas Liquid Energy Storage (GLES) for Electric and Thermal Storage	[059] Pore-scale Study on Melting Characteristics of Phase Change Materials in Rectangular Porous Media Based on Thermal Resistance Analysis Methods	[032] Multiphysics Synergy Analysis of Light, CO_2 Mass Transfer and Fluid Dynamics in Microalgae Photobioreactors
		[075] Enhancement of Phase-Change Efficiency by the Synchronized Reciprocating Rotation and Heaving Motion of the Thermal Storage Unit	[060] A Numerical Framework for Conjugate Heat Transfer Using the Immersed Boundary Method with a Compressible Solver	[023] Integrating Waste Heat Recovery System in Biomass Boiler: Experimental Insights and 1D Modelling	[049] Numerical Analysis of the Frost Formation Over Protruded Flat Surfaces	[024] Modelling of Electromagnetic Field Distribution in the Digital Twin of a Laboratory-scale Microwave Drier for Clay Roof Tiles
		[221] Microsystems Direct Cooling Using a Bi-phase Microfluidics Droplet	[073] Exploring the Synergistic Impact of V-Ribs with Cylindrical Vortex Generators on Solar Air Heater Performance: A CFD Approach	[069] Fluid-structure Interaction Analysis of a Small-scale Piezoelectric Wind Energy Harvester	[159] CFD Coupled With a Lognormal Model for Modeling an Evaporation-Condensation Type Aerosol Generator	[012] Multi-physics Analysis and Design of Lightweight Composite Enclosures for Enhanced Thermal Management in Electric Vehicle Battery Modules
		[087] Experimental Investigation of Open Circuit Voltage of a Li-ion Battery at Different Operating Temperatures	[096] ShapeFfactor Analysis for the Convective Radiative Flow of Tri-hybridized Nanofluid with Three Different Nanoparticles over a Rotating Cone	[011] Computational Model of a Stirling Heat Pump with Linear Actuators and a Regenerative Heat Exchanger	[119] Drag Force and Mass Transfer in Gravity-driven Bubbly Flows on Inclined Channels using the UCLS Method	[053] MHD Natural Bio-convective Flow of Radiative Jeffery Nanofluid through a Vertical Permeable Cone with Viscous Dissipation Effects
		[161] Development of a Novel Thermal Management System for Li-ion Battery using Microchannel	[101] Numerical Simulation of Marangoni-Benard Convection in a Planar Periodic Domain	[067] Eulerian-Eulerian Modelling of Discharge Process in Spouted Bed Solar Receivers	[082] Numerical Investigation of the Effect of Microscale Cavities on Nucleate Boiling	[063] Hybrid Numerical Simulation of MHD Mixed Convection in Nanofluid-Filled Cavities with Application to Electronics Cooling
		[066] Numerical Investigation of Copper Metal Foam Integration in Hybrid Battery Thermal Management System for Enhanced Energy Density and Optimized Temperature Control	[126] Development of Grid Model Requirements for Direct Numerical Simulation of Natural Convection in an Infinite Gap			[068] Hybrid FDM-LBM Method for Thermal Management of Electronic Components via MHD Natural Convection Using MWCNT-Fe_2O_3/H_2O Hybrid Ferrofluid
	12:00-13:30	**LUNCH**				
DAY-1 (MAY 20)	13:30-14:10	**KEYNOTE SESSION: Prof. Andrey Kuznetsov (MAIN HALL)** **Macroscale Turbulent Vortex Impingement on Porous/Fluid Interfaces** **Chair: Prof. Barbaros Çetin**			**KEYNOTE SESSION: Prof. Ayşe Gül Güngör (Room-B)** **Vortex Dynamics and Flame Interaction in Bluff Body Premixed Combustion** **Chair: Prof. Zafer Dursunkaya**	
	14:20-16:00	**S2-A: Heat Pipes** **Chair:** Prof. Damena Agnofer **MAIN HALL**	**S2-B: Reacting Systems - I** **Chair:** Prof. Ayşe Gül Güngör **Room-B**	**S2-C: Numerical Heat Transfer - II** Chair: Prof. Ali Beskok **Room-C**	**S2-D: Multi-phase Modeling - II** **Chair:** Prof. Abdulmajeed Mohamad **Room-D**	**S2-E: Turbulent Flow** **Chair:** Prof. Marcelo de Lemos **Room-E**
		[019] Innovative Groove Designs for Enhanced Flat-Grooved Heat Pipe Efficiency	[132] Numerical Investigation of Hydrogen Addition on Flame and NOx Emissions in Methane Combustion for Industrial Kilns Using a New Reduced Mechanism	[144] Numerical Study of an Industrial Scale Continuous Container Glass Annealing Furnace	[124] Comparison of the UCLS and Coupled VOF–LS Methods for Hydrodynamics and Mass Transfer in Bubbles	[108] Implementation and Validation of an Improved k-ε Turbulence Model Based on Reynolds Number
		[044] Pseudo-3D Modeling of Grooved Heat Pipes	[091] Numerical Study of Combustion Instabilities in a Single Injector Combustor	[173] Natural Convection Within an Enclosure Fitted With Blocks	[169] Optimization of Closure Model Coefficients with Bubble-Induced Turbulence for Enhanced Two-Phase Flow Predictions	[121] Direct Numerical Simulation of Turbulent Flow Regime in a Dense Triangular Rod Bundle Cell at $Re = 14,200$
		[002] Thermal Management of a Distributed Heat Load Using Bent Aluminum Axially Grooved Heat Pipes	[043] 3D CFD Modeling of MHSI and Fire Propagation in an Aircraft Engine Bay	[007] Comparison of Isogeometric and Lagrangian Elements with Boundary Element Method for Orthotropic Heat Conduction Problem	[022] Experimental and Numerical Investigation of Heat Transfer Performance in a Condensing Heat Exchanger	[171] Progress in Turbulent Flow, Heat, and Mass Transfer Modeling in Porous and Hybrid Media
		[092] Effect of Groove-Fin Width Ratios on the Thermal Performance of Grooved Heat Pipes	[056] Large Eddy Simulation of Turbulent Non-reacting Flow Inside a Swirl-stabilized Combustor via Lattice-Boltzmann Approach	[220] Identification of Transient Fluid Temperature Using Thermometer Readings	[080] Growth Mechanism of Boiling Bubble in Microscale Within the Interplay of Ultrasonic and Thermal Field	[130] RANS Simulations of Gas Flow Within an Industrial Kiln for Sanitary Ware Manufacture
		[076] Assessment of Sintered Wick Heat Pipe Performance	[115] A Novel Approach to C2C Variation Analysis in Heavy-Duty Engines: Multi-Cylinder Combustion Modelling with Detailed Chemistry	[172] Discrete Green's Function Method for Laplace Equation with Nonlinear Boundary Conditions	[094] Particle Dispersion and Deposition in Evaporating Sessile Droplets	[071] Numerical Study on the Effect of Loading Density on the Efficiency of Reverse-Flow Cyclone Separators
	16:00-16:20	**COFFEE BREAK**				
DAY-1 (MAY 20)	16:20-17:00	**KEYNOTE SESSION: Prof. Damena Agnofer (MAIN HALL)** **Thermal Management of Electronics From Device Level to Data Centers** **Chair: Prof. Barbaros Çetin**			**KEYNOTE SESSION: Prof. Marcelo J.S. de Lemos (Room-B)** **Advances in Modeling and Simulation of Turbulent Flow, Heat & Mass Transfer in Heterogeneous Media** **Chair: Prof. Zafer Dursunkaya**	
	17:00-18:40	**S3-A: Heat Exchangers** **Chair:** Prof. Tassos Karayiannis **MAIN HALL**	**S3-B: Aerodynamics/ External Flow - I** **Chair:** Prof. Matteo Bernardini **Room-B**	**S3-C: Numerical Heat Transfer - III** **Chair:** Prof. Marcelo de Lemos **Room-C**	**S3-D: Diverse Topics in Heat Tranfer - I** **Chair:** Prof. Quiwang Wang **Room-D**	**S3-E: Indoor/Outdoor Flows** **Chair:** Prof. Ali Cemal Benim **Room-E**
		[129] Transient Modeling of Heat Exchangers Using a Steady-State Approach	[128] Experimental Investigation of the Effect of Small Off-Surface Vortex Generator on the Aerodynamic Performance of NACA0012 at Low Reynolds Number	[135] LES Modeling of Free Convection Heat Transfer from Horizontal Cylinder	[30] CFD Modelling of Laser Cutting Process of UHS Steels, Experimental Validation and Optimum Cutting Parameters Selection	[141] Derivation of a Roughness Model for Urban areas by means of detailed CFD simulation
		[138] Performance Analysis of Fixed-Bed and Gyroid-Based Regenerative Heat Exchangers	[201] Investigating the Impact of Roughness Element Distributions on Shear Flow Dynamics in a Backward-Facing Step Channel	[142] Heat transfer coefficient between spherical particles in low-conducting fluid	[21] Investigation of thermal-induced distortions in LBPF process by utilizing finite element simulations	[72] Open Space Indoor Air Quality and Comfort: Ventilation Versus Buoyancy Strategies
		[170] Performance Analysis of Plate Heat Exchangers under Dynamic Environmental and Freezing Conditions	[42] Vortex Gust Encountered by a Flat Plate at 45° Wing Sweep	[175] Forced Convection of a Viscoplastic Fluid in a Pipe: Pressure Drop	[181] Computational Analysis of Heat and Material Flow During Chemical Recycling of Composites for Wind Turbine Blades	[105] Numerical simulation of wind fence effect on coal dust emission
		[150] CFD and Energy Analysis of Photovoltaic-Supported Electrically Driven Heat Exchangers	[123] Numerical Investigation of Heating Effect in 3D Shock-Wave/Boundary Layer Interactions Near Protrusions in Hypersonic Flow	[088] Numerical Investigation of Heat Transfer Characteristics in Liquid-Cooled Heat Sinks for SiC MOSFET Power Inverters	[84] Assessment of Thermophysical Nature and Process Utility Limits of Nanofluids through Non-Dimensional Parameters	[099] Numerical Investigation of Thermal Comfort for Passengers in a Helicopter Cabin
				[048] Experimental-numerical Method for Determining Heat Transfer Correlations in the plate-and-frame Heat Exchanger	[122] Assessment of MCw Plasma Gasification via Instantaneous Response of Thermochemical Decomposition versus Post Processed Syngas Chromatography	

Day	Time	Main Hall / A	Room-B	Room-C	Room-D	Room-E
DAY-2 (MAY 21)	09:00-09:45	**PLENARY SESSION: Prof. Tassos G. Karayiannis (MAIN HALL)** **Aspects and Challenges in Flow Boiling in Small to Micro-Scale Heat Exchangers**				
	09:45-10:00	**COFFEE BREAK**				
	10:00-12:00	**S4-A: Aerodynamics/ External Flow - II** **Chair:** Prof. Matteo Bernardini **MAIN HALL**	**S4-B: Microfluidics & Biological Applications-I** **Chair:** Prof. Ali Koşar **Room-B**	**S4-C: Heat Transfer Enhancement** Chair: Prof. Abdulmajeed Mohamad **Room-C**	**S4-D: Machine Learning-based Modeling - I** **Chair:** Prof. Ali Cemal Benim **Room-D**	**S4-E: Diverse Topics in Heat Tranfer - II** **Chair:** Prof. Zafer Dursunkaya **Room-E**
		[157] Direct Numerical Simulation of a Hypersonic Transitional Boundary Layer in Chemical Non-equilibrium: Effect of Wall State	[211] Responsive Virtual Wall Liquid Crystal Microfluidics	[070] Investigation of the Effectiveness of Using Micro-lattice Structured Meta-material for Enhancing Heat Transfer	[038] Precursor Detection for Flashback Events in Hydrogen Combustor via Integrated Machine Learning and Nonlinear Analysis	[183] Preliminary macroscopic non-equilibrium model for heat, air, and moisture transfer in bio-based building materials
		[209] Implementation of Numerical Schemes for the Computation of Incompressible Flows in OpenFOAM	[015] Programmable 3D Microfluidic Bio-Reaction Reservoirs Integrated with a Portable Pressure Pump for Miniaturization of Bioassays: Point-of-Care Detection of Monkeypox via LAMP-on-a-Chip	[008] Experimental Investigation and Evaluation of Heat Transfer Enhancement Effectiveness of Aluminum Foams for the Liquid-Cooled Avionic Electronic Units	[061] Prediction of Thermal Parameters of Individual Tube Rows in Finned Heat Exchangers using Artificial Neural Networks	[136] Discrete element modeling of heat transfer in active zone of nuclear reactor HTR-PM with advanced radiative model and nonuniform burnout of TRISO pebble fuel
		[058] Investigation of Aerodynamic and Structural Features Wind Escape Floors in Super-Tall Super-Slender Buildings	[202] Enhanced Design and Performance Optimization of Membranelles Micro Flow Battery for Self-Powered Lab-on-a-Chip System	[013] Numerical Investigation of Thermal Conductivity Enhancement in Phase Change Materials using additively Manufactured Lattice Structures	[098] Physics-Informed Neural Networks for Heat Transfer and Fluid Flow problems	[133] Study of the Thermophysical Properties of a Multilayered Impacted Cork-based Material by Infrared Thermography
		[165] Numerical Investigation of Novel Derivatives of Owl-Inspired Airfoils for Low Reynolds Number Applications	[131] Microstructure-Level Investigation of Nanoparticle Transport in Collagen Hydrogels for Advancing Nanomedicine Design and Delivery Strategies	[009] Investigation of Convective Heat Transfer Enhancement on a Cold Plate using Serpentine Channel with Friction Stir Welding	[199] Application of Artificial Intelligence Model for Extended Jet Impingement Cooling on Wavy Target Surface	[194] Computational Thermography for Injury Detection and Monitoring in Rugby Players
		[166] 2D Simulations on a Flat Plate to Study the Effect of Porosity on Skin Friction Drag Reduction	[020] Mathematical Modeling of Momentum and Mass Transport in Liver-on-a-Chip Systems	[195] Thermal and Hydrodynamic Evaluation of Microchannel Heat Sinks with Inline and Staggered Pin Fins: Enhancing Electronic Cooling	[207] Machine-learning-assisted Optimal Airfoil Design at High Mach Numbers	[184] Sensitivity analysis of micro-scale based method for predicting the thermal conductivity tensor of heterogeneous bio-based building materials
			[095] Experimental Analysis for Detection of Microplastic Waste by Using a Novel Microfluidic System with an Integrated Object Tracking Algorithm		[077] Dimensionless Approach to Modeling and Predicting Coating Thickness in Continuous Galvanizing Lines Using CFD and Neural Networks	[225] Modeling Localized Heating Induced Size Effects in Semiconductor Devices
	12:00-13:30	**LUNCH**				
DAY-2 (MAY 21)	13:30-14:10	**KEYNOTE SESSION: Prof. Matteo Bernardini (MAIN HALL)** **High-Speed Turbulence: Unraveling Boundary Layer Dynamics with HPC and Direct Numerical Simulations** **Chair: Prof. Barbaros Çetin**			**KEYNOTE SESSION: Prof. Kerem Pekkan (Room-B)** **Blood Flow and Mass Transport Across Scales: Cardiovascular System Integration and Fiber-Level Investigations of Blood Oxygenators** **Chair: Prof. Zafer Dursunkaya**	
	14:20-16:00	**S5-A: Reacting Systems - II** **Chair:** Prof. Matteo Bernardini **MAIN HALL**	**S5-B: Multi-phase Modeling - III** **Chair:** Prof. Zafer Dursunkaya **Room-E**	**S5-C: Thermal Management/Electronics Cooling** Chair: Prof. Damena Agnofer **Room-C**	**S5-D: Numerical Heat Transfer - III** **Chair:** Prof. Quiwang Wang **Room-D**	**S5-E: Diverse Topic in Heat Transfer - III** **Chair:** Prof. Abdulmajeed Mohamad **Room-E**
		[062] Numerical Investigation of Fuel Injection Port Design on Partially Premixed Methane-Air Combustor	[050] Numerical Analysis of Frost Formation on Finned Tube Heat Exchangers: Effect of the Humidity Level on Heat Transfer	[163] Novel Heat Carrier Nano-Fluidics (HCNFs); Structural Design and Thermal Analysis	[189] Computational study of Laminar Free Convection Heat Transfer inside a Vertical Convergent Channel Heated Isothermally	[026] Reliability Assessment of the Fuel Rail Assembly under Thermo-mechanical Stresses in the Engine Compartment of the Passenger Cars
		[055] Numerical Investigation of Flame Dynamics and Mixing Characteristics of a Partially Premixed Swirl-Stabilized Combustor	[198] Condensation Heat Transfer from Surfaces Modified by Coating of Microscale Particles using Thermal Spray Coating	[180] Thermal Management of High Bright Led Display System by Forced Convection and Tailored Cooling System Design with Analytical and Numerical Approaches	[176} Determination of the Local Nusselt Number in the Thermal Entrance Region of Flow between Two Parallel Plates	[054] A computer system for online determination of thermal and pressure stresses and remnant lifetime of pressure components
		[116] Assessing the Impact of Hydrogen Reaction Mechanisms on Combustion Behavior in Heavy-Duty LPDI Engines	[204] Numerical Investigation of Dropwise Condensation on Biphilic Surfaces	[188] Numerical and Experimental Investigation of Twister Type Additively Manufactured Flow Mixer Fins for the Liquid-Cooled Avionics Electronic Units	[139] Heat Transfer in Falling Films Over Inclined Walls: A Study of Smooth vs. Wavy Film Surfaces	[041] Numerical Examination of the Flow Channel Expansion/contraction on the Performance of Polymer Electrolyte Membrane Fuel Cell
		[039] Computational Analysis of Non-Reacting Flow in a Non-Premixed Burner Featuring a Plasma-Enhanced Bluff-Body Swirler	[210] Investigation of Contact Melting in Molten Salt Phase Change Units with Proposed Euler-Lagrange Iteration	[203] Improved Thermal Management of Electrical Vehicles Using Internal Magnetic Field of the Electric Motors	[146] Investigation on the Heat transfer Process of Silica-gel Particles inside a Cylindrical Reactor	[197] On the Polaritonic Figures-of-Merit of Ionic Crystals for Subwavelength Optics
			[064] Numerical Approach for Entropy Generation and Exergy Destruction of Isobutane Condensation Flow in Microchannels	[216] Cladded Porous Material Integrated Pin Fin Heat Sink Performance Evaluation	[081] Analysis of Pellet Defects through Numerical Simulations of flow and Heat Transfer in Underwater Pelletizers	[085] Interferometry Guided Investigation of a Thin Film
	16:00-16:20	**COFFEE BREAK**				
DAY-2 (MAY 21)	16:20-18:00	**S6-A: Diverse Topics in Fluid Flow** **Chair:** Prof. Ayşe Gül Güngör **MAIN HALL**	**S6-B: Multi-phase Modeling - III** **Chair:** Prof. Qiang Liao **Room-B**	**S6-C: Machine Learning-based Modeling** **Chair:** Assoc. Prof. Ali Karakuş **Room-C**	**S6-D: Molecular Simulations** **Chair:** Prof. Ali Beskok **Room-D**	**S6-E: Geophysical System Modeling** **Chair:** Prof. Ali Cemal Benim **Room-E**
		[160] Effects of Rarefaction on Thermochemical Non-Equilibrium via Open-Source Software	[031] A Non-homogeneous 2D Model for Frost Growth on a Plate Fin Surface	[177] Investigation of Characteristics of Different ANN Concepts in Flow Prediction	[149] Towards understanding ion-specific adsorption and interfacial thermodynamics at water-mica interfaces	[118] Preliminary Findings from the Thermohydraulic Modeling of the Bozköy EGS Field (Aksaray), Türkiye
		[196] CFD Analysis of Propane Leak Dispersion and Ventilation Optimization in Refrigeration System	[152] A New Two-fluid Numerical Method for Simulating Mass Transfer in Immiscible Two-phase Flows: Validation and Comparison with Single-fluid Results	[179] Prediction of Heat Transfer Characteristics of Impinging Jets Utilizing ANNs Based on CFD Simulations	[57] Temperature-Dependent Characteristics of Interfacial Thermal Resistance Between Liquid Metal Gallium and Nanofillers: A Molecular Dynamics Simulation Study	[192] Numerical Simulation of a Rapid-Abandonment Oil Well
		[222] Simulation-Based Analysis of Oil Flow Behavior in Hydrostatic Bearings for Vertical Francis Turbines	[168] Efficient Eulerian Interfacial Area Transport for Modeling Droplet Coalescence and Breakup in Complex Flow Systems	[215] A Machine Learning Framework for Hemodynamic Analysis of Stenosed Arteries	[214] Molecular Dynamics Simulation of Epoxy-based Polymer Coatings: Microstructure and Water Transport Mechanism at Metal Interfaces	[162] Optimizing Deep Well Systems: Thermal Performance Analysis of Co-Axial Heat Exchangers
		[110] Application of Galerkin Reduced-Order Modeling Based on Proper Orthogonal Decomposition for Viscous Burgers' Equation	[065] An Immersed Boundary Approach for Encountered Geometries in Multiphase Flows with Pseudopotential Lattice Boltzmann Model	[106] Investigation of Single Droplet Dynamics in a Microchannel Using Physics-Informed Neural Networks	[079] A First-Principles Study on the Adsorption Mechanism of Water Molecules on the $SrBr_2$ (100) Surface	[120] Probabilistic Estimation of the Enhanced Geothermal Systems (EGS) Potential of the Bozköy Field (Aksaray, central Turkey) using Monte Carlo Simulations
		[017] Development of Newton Raphson Based 1D Flow Network Solver				[178] Thermal-Hydrologic-Mechanic Effects on Heat Transfer Processes in Enhanced/Engineered Geothermal Systems
	19:30-21:30	**GALA RECEPTION**				

Day	Time	Main Hall / A	Room-B	Room-C	Room-D	Room-E
DAY-3 (MAY 22)	09:00-09:45	**PLENARY SESSION: Prof. Qiang Liao (MAIN HALL)** **Impact Dynamics and Solidification Behavior of Droplet Impact upon Subcooled Wall in an Electric Field**				
	09:45-10:00	**COFFEE BREAK**				
	10:00-12:20	**S7-A: Microfluidics & Biological Applications-II** **Chair:** Prof. Kerem Pekkan **MAIN HALL**	**S7-B: Rotating Machinery** **Chair:** Prof. Ali Cemal Benim **Room-B**	**S7-C: Energy Systems** **Chair:** Prof. Jan Taler **Room-C**	**S7-D: Aerodynamics/ External Flow - III** **Chair:** Prof. Ayşe Gül Güngör **Room-D**	**Room-E**
		[218] Wearable Platforms for Continuous Ultrasonic Imaging and Biomarker Monitoring	[140] Aerodynamic Analysis of Wind Turbine Airfoils with a Nested Krylov Subspace Solver Implementation in SU2	[158] Thermoelectric Cooler Design without Using Cold And Hot Face Temperatures	[151] Impact of Shock Boundary Layer Interaction on Swirl Characteristics in Supersonic Intakes with Bleed System	
		[036] ML Automated Microfluidic Circuit Design	[212] An Analysis of the Airflow Patterns of an Electrohydrodynamic Fan	[191] Numerical Analysis of Solar Volumetric Absorbers Using a Two-Energy Equation Model	[86] CFD Analysis of Aerospike Length and Blowing Effects on Aerodynamic Heating Reduction in High-Speed Flow	
		[224] Effects of Kinematic Hardening of Mucus Polymers on the Airway Closure Phenomenon	[217] Computational Design of a High-Pressure Compressor and its Experimental Validation	[200] HVACs optimal scheduling for Renewable Energy Communities using integrated solar-powered heat pump and thermal energy storage	[029] HEMLAB Algorithm Applied to the ARD Capsule	
		[219] Flowing Liquid Crystal-Aqueous Interfaces that Respond to Lipid Adsorption	[107] Numerical Investigation of the Influence of Structural Parameters on the Efficiency of Vertical Axis Tidal Turbines	[010] Waste Heat Recovery from the Exhaust Gas of a Turbo-Diesel Tractor Engine Using Organic Rankine Cycle	[147] Edney Shock Interactions in High Enthalpy Rarefied Gas Flows	
		[025] Modeling of Microfluidic MEMS-Based Capacitive Pressure Measurement	[104] Numerical Investigation of the Performance of Centrifugal Pumps with Bionic Surface Structures	[148] Optimisation of Thermal Energy Storage Systems for Industrial Heating Applications	[145] Finite Element Analysis of Flow and Heat Transfer of an Incompressible Non-Newtonian Fluid in a Porous Cavity	
		[153] An Investigation to Enhance the Mixing Efficiency of SAR Micromixer with Obstacles	[167] Mixing Analysis in a Stirred Tank Equipped with Innovative Impeller			
		[156] A Coupled Model for Drug Release from a Non-swellable Microsphere to a Surrounding Tissue	[185] Computational Design of a High-Pressure Compressor and its Experimental Validation			