

Conference Agenda

ICP 2021 - Sixth International Conference on Polygeneration

Date: Monday, 04/Oct/2021

8:30am - 9:00am	Opening: Opening & welcome		
9:00am - 10:00am	Plenary opening: Plenary opening Plenary I: "Challenges of the State Research Agency" Enrique Playán. Director of the Spanish State Research Agency, Spain Plenary II: Smart Energy Systems and 4th Generation District Heating Henrik Lund - M.Sc.Eng., Ph.D., Dr. Techn. Professor in Energy Planning at Aalborg University, Denmark		
10:00am - 11:30am	<p>DES 1: Distributed Energy Systems 1 Chair: Dr. Álvaro Campos-Celador, University of the Basque Country UPV/EHU, Spain</p> <p>Energy subsidies and technological innovation: Policy issues for promoting polygeneration systems Shahadat Hosan, Md. Matiar Rahman, Shamal Chandra Karmaker, Bidyut Baran Saha</p>	<p>ES 1: Energy Storage 1 Chair: Dr. Ingrid Martorell, University of Lleida, Spain</p> <p>Experimental Investigation on the Poisoning Characteristics of Gaseous Impurity in La0.9Ce0.1Ni5 based Hydrogen Storage and Purification system Alok Kumar, Nithin N Raju, Muthukumar P</p>	<p>SC 1: Solar Cogeneration 1 Chair: Dr. Evangelos Bellos, National Technical University of Athens, Greece</p> <p>Prototype design and first tests of a linear beam-down solar field Sebastián Taramona, Alexander López, Alessandro Gallo, Jesús Gómez-Hernández</p>
	<p>Mathematical Optimisation Model for Regional Planning of Rural Electrification Nor Nazeelah Saleem, Sarah Farhana Shahrom, Viknesh Andiappan, Denny K. S. Ng</p>	<p>A Novel Compression-assisted Absorption Thermal Energy Storage Heat Transformer for Low-grade Energy Utilization Zhixiong Ding, Wei Wu, Simin Huang</p>	<p>Solar Trigeneration System Based on ORC and Absorption Refrigeration Cycle Chittivolu Kranthi, Ghanta Sai Karthik, Praveen Kumar Govindasamy, Saravanan Rajagopal, i Salcedo Alberto Coronas</p>
	<p>Simulation and experimental data of innovative micro cogeneration DHW system for small island Samuele Ballistreri, Biagio Di Pietra, Mario Ragusa, Marco Beccali</p>	<p>Numerical investigations on the thermal performance of combined latent and sensible heat thermal energy storage system Tat Suraj Arun, Gurpreet Singh Sodhi, Muthukumar P</p>	<p>: Study of Air Flow Distribution and Cooling Performance on 20ft Solar Powered Cold Storage for Fishery Commodity Storage Oktandio Imamudien, Muhammad Arif Budiyanto</p>
	<p>Repercussions of biomass energy consumption on ecological footprint: Evidence from OCED countries Shamal Chandra Karmaker, Shahadat Hosan, Md. Matiar Rahman, Bidyut Baran Saha</p>	<p>Numerical study on heat transfer augmentation techniques in concrete storage module for solar-thermal applications Aswin Karthik, Muthukumar P</p>	<p>Hybrid Renewable Energy Systems for Off-Grid Desalination Gaurav Maurya, T Lalith Kumar, Chittivolu Kranthi, Govindasamy Praveen Kumar, Duraisamy Sakthivadivel, Ashish Alex Sam</p>
11:30am - 12:00pm	BN 1: Break-Networking		
12:00pm - 1:30pm	<p>ES 2: Energy Storage 2 Chair: Prof. Srinivasa Murthy S, Indian Institute of Science, Bangalore, India, India</p>	<p>POEE 1: Polygeneration optimization and energy efficiency 1 Chair: Prof. José Linares, Universidad Pontificia Comillas, Spain</p>	<p>SC 2: Solar Cogeneration 2 Chair: Prof. M. Prakash Maiya, Indian Institute of Technology Madras, India</p>

Application of Mg-30wt% LaNi₅ and LaNi_{4.7}Al_{0.3} for thermochemical energy storage using coupled metal hydride beds

Sarath Babu K, Anil Kumar E, Srinivasa Murthy S

Experimental Study of the Finned-Tube Adsorber with Indonesian Natural Zeolite for Heat Storage Applications

Dyah Arum Wulandari, Agustino Zulys, Yuni Krisyuningsih Krisnandi, M. Idrus Alhamid, Nasruddin Nasruddin

Numerical study of compressed air energy storage (CAES) systems for determination of optimum operating parameters for different scales of application.

Ankit Ray, T.N.C. Anand, Varunkumar S.

Experimental performance analysis on an adsorption thermal storage system using Indonesian natural zeolite adsorbent with Na⁺ counterbalanced

Euis Djubaedah, Yuni Krisyuningsih Krisnandi, Agustino Zulys, Muhammad Idrus Alhamid, Nasruddin Nasruddin

A feasibility study of a small-scale photovoltaic-powered reverse osmosis desalination plant for potable water and salt production in Madura Island: a techno-economic evaluation

Habibie Muhammad Ega, Dereje S. Ayou, Nizar Amir, Alberto Coronas

PRESSURE SWING ADSORPTION INTEGRATED MED CYCLE

Muhammad Wakil Shahzad, Kim Choon Ng, Ben Bin Xu, Doskhan Ybyraiykul

Optimization of the sizing of biodigesters by the PDLB method

Isabella Afonso de Campos, Ana Paula Mattos

Comparative assessment of multi-effect distillation and reverse osmosis processes coupled to solar-driven high-temperature power cycles

Patricia Palenzuela, Diego-César Alarcón-Padilla, Bartolomé Ortega-Delgado, Guillermo Zaragoza

Selection of Solar Dryers for Winter Drying of Agricultural Products

Surendhar G, Nayanita Kalita, Srinivasan G, Muthukumar P

Experimental Investigations on a Solar Assisted Packed Bed Regeneration Systems Using a Binary Desiccant Solution

Mrinal Bhowmik, Juri Sonowal, Muthukumar P, Anandalakshmi R

Experimental and numerical investigations of LiCl regeneration for greenhouse air conditioning applications.

Paris Pasqualin, Philip Davies

ANALYSIS OF THE EXERGY PERFORMANCE OF A SOLAR-POWERED COGENERATION SYSTEM

Larbi AFIF, Nahla BOUAZIZ

1:30pm

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4:00pm

BN 2: Break-Networking

PE 1: Power Engines 1

Chair: Dr. Antonio Atienza-Márquez, Universidad de Málaga, Spain

Practical cases of electricity production through different renewable energy and waste heat sources with Organic Rankine Cycle technology

Joaquín Navarro-Esbri, Francisco Molés-Ribera, Adrián Mota-Babiloni, Roberto Collado-Puig, Manuel González-Piquer, José Pascual Martí-Mata

PPA 1: Polygeneration plants and application 1

Chair: Prof. Ana M Blanco-Marigorta, Universidad de Las Palmas de Gran Canaria, Spain

Polygeneration systems driven by renewable energy sources – A critical mini review for the units with organic Rankine cycles

Evangelos Bellos, Christos Tzivanidis

Yearly dynamic investigation of a solar-trigeneration unit in

SC 3: Solar Cogeneration 3

Chair: Prof. Luis María Serra, Universidad de Zaragoza - I3A, Spain

Characterization of the energy potential of photovoltaic/thermal systems using the finite difference method to meet demand in northeastern Brazil

Álvaro Augusto Soares Lima, Matheus Henrique de Oliveira Demetrio, Carlos Antônio Cabral dos Santos, Héber Cláudius Nunes Silva, José Ângelo Peixoto da Costa, Chiguero Tiba, Edywin Gabriel Carvalho de Oliveira, Gustavo de Novaes Pires Leite, Alvaro Antonio Ochoa Villa

Modelling and simulation of the thermal processes of magnetic heat exchangers

Alisson Cocci de Sousa, Suellen Crisitna Sousa Alcântara, José Ângelo Peixoto da Costa, Alvaro Antonio Ochoa Villa, Paula Suemy Arruda Michima

Athens by using TRNSYS software

Evangelos Bellos, Christos Tzivanidis

Renewable heat powered Polygeneration System based on an advanced absorption cycle for rural communities

Praveen Kumar Govindasamy, Dereje Sendeku Ayoub, Narendran Chidambaram, Saravanan Rajagopal, Maiya Manoor Prakash, Albert Coronas i Salcedo

Ground-coupled Heat Pump Driven by CHP Engine Fuelled by WWTP Biomethane to Meet the Energy Demand of a District Heating and Cooling Network. Case Study in Spain

Lorenzo Serrat, José Ignacio Linares, María del Mar Cledera, Carlos Morales

Adaptation of residential solar systems for DHW to hybrid ORC distributed generation

D.A Rodriguez-Pastor, R. Chacartegui, J.A Becerra

HYBRID THERMOSOLAR-LPG DEHYDRATING PLANT INSTALLED IN XOCHITEPEC, MORELOS

Octavio García-Valladares, Isaac Pilatowsky Figueroa, Alfredo Domínguez Niño, Ana Lilia César Munguía, José Jassón Flores Prieto, Jose Rodolfo Pérez Epinoza

Atmospheric water harvest using desiccant solar still

Neeraj Paul Manelil, Johny W Ryan, Prakash M Maiya, Nitesh Kumar, Sourav Mitra, Durga Das

4:00pm
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6:00pm

Workshop HYDROGEN: Workshop: HYDROGEN: Potential energy vector in polygeneration systems

Date: Tuesday, 05/Oct/2021

<p>9:00am -</p>	<p>Plenary: Plenary III Can Climate Change be Avoided? Vision of a Hydrogen-Electricity Energy Economy Manfred Gröll - Prof. Formerly. Institute for Nuclear Technology and Energy Systems (IKE), University Stuttgart, Stuttgart, Germany.</p>		
<p>9:30am -</p>	<p>EHT 1: Emerging and hybrid technologies 1 Chair: Prof. Anutosh Chakraborty, Nanyang Technological University, Bangladesh, People's Republic of</p>	<p>ES 3: Energy Storage 3 Chair: Dr. José A. Almendros-Ibáñez, Castilla-La Mancha University, Spain</p>	<p>PPA 2: Polygeneration plants and application 2 Chair: Prof. Joaquín Navarro-Esbri, University Jaume I, Spain</p>
<p>9:30am -</p>	<p>A novel cogeneration system with ALLAM cycle and heat pump Meina Xie, Longxiang Chen, Jian Lin, Shan Xie, Yingru Zhao</p>	<p>CONSTRUCTAL DESIGN OF WEIGHT OPTIMIZED METAL HYDRIDE STORAGE DEVICE EMBEDDED WITH RIBBED HONEYCOMB Martin George, Mohan G</p>	<p>Performance Analysis of CO2/Natural Refrigerants for Cascade Refrigeration System Vinod Laguri, Kundan Kumar, Pramod Kumar, Rajkumar P Kamath, Maniam B Venkateswaran, Nagahari Krishna Lokanadham, Armin Hafner</p>
<p>11:00am</p>	<p>Comparison between the main hydrogen storage technologies in a small and light manned full electric aircraft propelled by means of a hybrid fuel cell-battery power system Francisco Javier Sánchez-Castañeda, Teresa J. Leo, Emilio Navarro, Oscar Santiago</p>	<p>Proposal of a thermocline Molten Salt Storage Tank for District Heating and Cooling Alberto Abánades, Javier Rodríguez-Martín, Juan José Roncal, Francisca Galindo, Adrián Caraballo</p>	<p>Polygeneration at work: turbine inlet air cooling and increased mechanical power from waste heat Jonathan Perez-Blanco, William J. Jones</p>
<p>11:00am</p>	<p>Experimental and Numerical analysis and comparison of Distillate output between simple solar still and solar still with Pyrex glass quantum Dot as basin material Pranav kumar Singh, Shailendra Kumar Shukla, B. B. Kale</p>	<p>Application of seasonal borehole thermal energy storages into solar hybrid heating and cooling networks serving residential buildings in the Campania region of Italy: impact of meteorological data and underground characteristics Antonio Rosato, Antonio Ciervo, Atsushi Akisawa, Vincenzo Capozzi, Giannetta Fusco, Giovanni Ciampi, Michelangelo Scorpio, Sergio Sibilio</p>	<p>Proposed novel geothermal multigeneration system to produce electricity, liquefied natural gas, hydrogen, cooling, and fresh water with multi-objective optimization located in Cisukarame, West Java, Indonesia Yophie Dikaimana Dikaimana, Budi Ismoyo, M. Idrus Alhamid, M. Aziz, N. Nasruddin</p>
<p>11:00am</p>	<p>Experimental investigation and study of effect of solar still's glass cover tilt angle in winter season Vikash Kumar Chauhan, Shailendra Kumar Shukla, Pushpendra Kumar Singh Rathore</p>	<p>Studies on seasonal and buffer modes of operation of thermal energy storage system using coupled metal hydrides Malleswararao K, Aswin N, Srinivasa Murthy S, Pradip Dutta</p>	<p>A COMPARATIVE THERMODYNAMIC ANALYSIS OF SOLAR DRIVEN COMBINED COOLING, HEATING, AND POWER SYSTEMS BASED ON ORC AND ABSORPTION HEAT-PUMP Jesús García-Domínguez, J. Daniel Marcos</p>
<p>11:00am</p>	<p>BN 3: Break-Networking</p>		
<p>11:30am</p>	<p>ES 4: Energy Storage 4 Chair: Dr. Kiran Naik Bukke, National Institute of Technology Rourkela, India</p>	<p>HT 1: Heat transformers 1 Chair: Prof. Eduardo Antonio Pina, Universidad de Zaragoza - I3A, Spain</p>	<p>POEE 2: Polygeneration optimization and energy efficiency 2 Chair: Dr. Patricia Palenzuela, CIEMAT-Plataforma Solar de Almería, Spain</p>
<p>11:30am -</p>	<p>Effects of surface chemistry on water adsorption onto MOFs Tahmid Hasan Rupam, Mujib L. Palash, Bidyut Baran Saha</p>	<p>Temperature-Entropy Analysis for Performance Evaluation of Metal Organic Frameworks</p>	<p>TRNSYS modeling of solar cooling systems with air-conditioning with separated</p>

Mixed valence metal doped MOF 801 for adsorption heat pumps

Israt Jahan, Tahmid Hasan Rupam, M. L. Palash, Bidyut Baran Saha

Activated carbon and carbon nanotube based composite adsorbents for adsorption cooling systems

Kaiser Ahmed Rocky, Israt Jahan, Animesh Pal, Bidyut Baran Saha

Research on xylitol crystallization. A rheological investigation

Miguel Navarro, Ana Lázaro, Monica Delgado, Severine A.E. Boyer, Edith Peuvrel-Disdier

(MOFs) Assisted Adsorption Desalination System

Anutosh Chakraborty, Bo Han

Evaluation on the Performances of Adsorption Assisted Heat Transformation (AHT) System for Cooling, Heat Pump and Desalination employing various Metal Organic Frameworks (MOFs) + Water Pairs

Anutosh Chakraborty, Bo Han

Experimental investigation of double effect adsorption cycle with adsorption heat recovery

Masahiro KONO, Atsushi AKISAWA

Study on the Cooling Performance of Modular Fish Hold for 30 GT Fishing Vessel

Muhammad Arif Budiyanto, Fadhil Azharrisman, Achmad Fatchur Utama

High temperature heat pumps as a feasible technology towards decarbonization. Evaluation of a two stage cascade system as alternative to the use of fossil fuels

Joaquín Navarro-Esbri, Carlos Mateu-Royo, Adrián Mota-Babiloni, Francisco Molés-Ribera

sensible and latent heat treatment

Tendo Shirakawa, Atsushi Akisawa, Antonio Ciervo, Antonio Rosato

A COMMON PLATFORM FOR EVALUATING ENERGY EFFICIENCY OF DESALINATION PLANTS

Kim Choon Ng, Muhammad Burhan, Qian Chen, Doskhan Ybyraiymkul, Faheem akhtar, M Kum ja, Raid AlRowais, Muhammad Wakil Shahzad

Optimum Kinetic Model for gas-solid Physical Adsorption Employing Statistical Approach

Md. Matiar Rahman, Mahua Jahan Rupa, Shamal Chandra Karmaker, Shahadat Hosan, Bidyut Baran Saha

Numerical investigation of heat transfer and pressure drop characteristics of single-phase flow in wavy fins using CFD

Sai Madhav Maddi, Sankaraiyah Mada, Rahul Agrawal, Vasudeva Madav, Ashok Babu T P

1:00pm

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Plenary IV: Plenary IV

Brazilian Sugar Cane Industry – a Survey on Future Improvements in the Process Energy Management Silvia A. Nebra Prof. Energy Engineering Modeling and Simulation Laboratory, Federal University of ABC; Interdisciplinary Centre for Energy Planning, University of Campinas, Brazil

BN 4: Break-Networking

DES 2: Distributed Energy Systems 2

Chair: Prof. Joan Carles Bruno, Universitat Rovira i Virgili, Spain

Role of the Geographic Information Systems (GIS) for District Heating Network Design

Mikel Lumbreras, Alvaro Campos-Celador, Gonzalo Diarce, Pello Larrinaga, Koldobika Martin

Wind energy potential assessment of selected

LCATS 1: Life cycle analysis and thermoeconomic studies 1

Chair: Prof. Alberto Coronas, Universidad Rovira i Virgili, Spain

A thermo-economic analysis of solar domestic hot-water systems in compliance with Spanish energy code requirements. Feasible minimum size to meet operating and maintenance costs.

Juan F. Belmonte, F. Javier Ramirez, José A. Almendros-Ibáñez

PPA 3: Polygeneration plants and application 3

Chair: Dr. Octavio Garcia-Valladares, Instituto de Energías Renovables UNAM, Mexico

Energy evaluation of the introduction of an ejector cooling system to improve the fermentation process in a sugar and ethanol production process

Milagros Cecilia Palacios Bereche, Reynaldo Palacios Bereche, Antonio Garrido Gallego, Silvia Azucena Nebra

Locations at two major cities in Dominican Republic, toward energy matrix decarbonisation.

Alexander Vallejo Díaz, Idalberto Herrera, Alexeis Fernández

Potential Maps for Combined Nocturnal Radiative Cooling and Diurnal Solar Heating Applications. Cases of Spain, Switzerland, Germany and Sweden

Roger Vilà, Lidia Rincón, Marc Medrano, Albert Castell

Integrated energy system model
Alejandra Queralt Soriano, Raimon Argemí Puigdoménech

Conventional and Advanced 4E Analysis of a Hybrid Solar-Geothermal Power Plant

M. Moghaddam, M.H. Khoshgoftar-Manesh, Ana M Blanco-Marigorta

Environmental assessment of two medium size solar cogeneration plants

Silvia Guillén-Lambea, Eduardo A. Pina, Luis M. Serra, Miguel A. Lozano, Ana Lazaro

Proposal and Thermo-economic Analysis of a Multiple Configuration Energy Trigeration System: Case Study of the Energy Demand of a Laboratory in a University Campus

Suellen Cristina Sousa Alcântara, Daniel Rodolfo Souza da Silva, Alvaro Antonio Ochoa Villa, José Ângelo Peixoto da Costa, Héber Cláudius Nunes Silva, Eduardo José Cidade Cavalcanti, Paula Suemy Arruda Michima

Optimal design of trigeneration systems for buildings considering cooperative game theory for allocating production cost to energy services

Miguel A. Lozano, Luis M. Serra, Eduardo Antonio Pina

Experimental studies on Embedded Cooling Tube Metal Hydride Reactor for Heating and Cooling Applications

Sayantan Jana, Nithin N Raju, Muthukumar P

Integration of a system with solar thermal energy and biomass for the heating and cooling control of a greenhouse in Mediterranean climates

Juan Prieto, Rainanda M. Ajnannadhif, Pablo Fernández-del Olmo, Alberto Coronas

4:00pm

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6:00pm

Workshop Solar Cogeneration: Workshop Solar Cogeneration

Date: Wednesday, 06/Oct/2021

9:00am - 10:00am	Plenary day 3: Plenary V & VI Plenary V: Food-Energy-Material Nexus – Next Generation Thermal Energy Storage Materials from Wastes. Halime Paksoy Prof. Chemistry Department and Director of the Center for Environmental Research at Çukurova University, Adana, Turkey. Plenary VI: An overview of metal hydride based thermal energy storage systems Pradip Dutta Prof. Department of Mechanical Engineering, Indian Institute of Science. Bangalore, India.	
10:00am - 11:30am	EHT 2: Emerging and hybrid technologies 2 Chair: <u>Dr. Juan Prieto</u> , Universitat Rovira i Virgili, Spain	PBDHC 1: Polygeneration in buildings and district system/Polygeneration in district energy networks 1 Chair: <u>Prof. Joaquín Navarro-Esbri</u> , University Jaume I, Spain
	RCE as a device to produce heating and cooling. Transmittance and aging study for cover materials suitable for radiative cooling <u>Ingrid Martorell</u> , <u>Jaume Camarasa</u> , <u>Roger Vilà</u> , <u>Cristian Solé</u> , <u>Albert Castell</u>	Fuel cell powered air-cooled data centre: cogeneration solutions for District Heating Networks <u>Paolo Taddeo</u> , <u>Joaquim Romaní</u> , <u>Aleksandar Ivancic</u> , <u>Jaume Salom</u>
	Hollow Fiber Membrane-Based Liquid Desiccant Dehumidifier Performance Assessment for Air Conditioning/Drying Application <u>Pediseti Kumar Sai Tejes</u> , <u>Gaurav Priyadarshi</u> , <u>Bukke Kiran Naik</u>	Hot water supply in hospitals: Performance analysis and evaluation of improvement strategies of a solar thermal system combined with boilers <u>Antonio Atienza-Márquez</u> , <u>Fernando Domínguez-Muñoz</u> , <u>Francisco Fernández-Hernández</u> , <u>Pedro Quintero-Jiménez</u> , <u>José Manuel Cejudo-López</u>
	Entropy generation analysis of a novel CO2 based solar assisted trigeneration system for dairy application <u>VUTUKURU RAVINDRA</u> , <u>PEGALLAPATI A SAIKIRAN</u> , <u>MADDALI RAMGOPAL</u>	Performance analysis of a reversible water/LiBr absorption heat pump connected to district heating network for space cooling, heating, and DHW provision in warm and cold climates <u>Muhammad Fa'iq Vidi Wardhana</u> , <u>Dereje S. Ayou</u> , <u>Alberto Coronas</u>
	ENERGY CONSERVATION USING NATURAL LIGHTING IN BUILDINGS AT VARIOUS INDIAN CLIMATIC CONDITIONS <u>Ashok Babu T P</u> , <u>Jos Varghese Konikkara</u> , <u>Azhar B Shubin</u> , <u>Abhishek C</u> , <u>Haroon B A</u>	Techno-Economic Feasibility Study on Integration of Mobile Thermochemical Energy Storage with Building Space Cooling System <u>Athul Pavangat</u> , <u>Bukke Kiran Naik</u>
11:30am - 12:00pm	BN 5: Break-Networking	
12:00pm - 1:30pm	EHT 3: Emerging and hybrid technologies 3 Chair: <u>Prof. PRADIP DUTTA</u> , Indian Institute of Science, India	PPA 4: Polygeneration plants and application 4 Chair: <u>Dr. Paolo Taddeo</u> , Institut de Recerca en Energia de Catalunya, Spain
	Experimental study on absorption and desorption characteristics of La_{0.7}Ce_{0.1}Ca_{0.3}Ni₅ filled in an annular porous metal hydride reactor <u>Sunku prasad J</u> , <u>SHUBHAM PARASHAR</u> , <u>Muthukumar P</u>	Ammonia-based compression heat pumps for simultaneous heating and cooling applications in milk pasteurization processes: performance evaluation <u>Reza Hargiyanto</u> , <u>Dereje S. Ayou</u> , <u>Alberto Coronas</u>
	Evaluation of Sorption Kinetics of Micro-Encapsulated Sorbents and Thermal Kinetics of Micro-Encapsulated PCM for Low Temperature Thermal Energy Storage Application <u>Atif Amim</u> , <u>Bukke Kiran Naik</u>	Assessment of waste heat potential of an Algerian gas turbine power plant for electricity production and district heating <u>Sofiane ABERKANE</u> , <u>Hamza SEMMARI</u> , <u>Abdelkader Filali</u> , <u>Mustapha BELKADI</u> , <u>Noura REBAI</u>

Numerical simulation of the flow of a gas-particle dense suspension through a vertical tube for CSP applications

Minerva Díaz-Heras, Juan I. Córcoles, María Fernández-Torrijos, José A. Almendros-Ibáñez

A parametric optimization of a nZEB building under the new Spanish Building Technical Code

Ane Goenaga-Pérez, Milagros Álvarez-Sanz, Pello Larrinaga, Jon Terés-Zubiaga, Álvaro Campos-Celador

Implementation of ANFIS–AI Tool with ANN Fuzzy Logic for Performance Prediction and Design Optimization of Desiccant Coated Energy Exchanger

Gaurav Priyadarshi, Kiran Naik Bukke

Bio oil as cutter stock in fuel oil blends for industrial applications

Paul Gustavo Palmay Paredes, Joan Carles Bruno Argilagué, Alberto Coronas Salcedo

Performance of Solid State Hydrogen Storage assisted Stand-alone Polygeneration Microgrids for Various Climatic Zones of India

SRINIVASA MURTHY SRIKANTIAH, PRADIP DUTTA, RAKESH SHARMA, BADRI S RAO

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5:30pm

BN 6: Break-Networking

Workshop: renewable DHC: Workshop Smart and local renewable Energy district heating and cooling solutions for sustainable living

Closing: Plenary, Awards & closing

Plenary VII: "Review of technologies and new trends in polygeneration systems" Prof. Joan Carles Bruno, CREVER - Research Group on Applied Thermal Engineering Universitat Rovira i Virgili