

JTACC+V4 2025 Poster Sessions* / Danubius Hotel Helia Gallery						
TV nr	Name		Country	ID	Abstact title	Topic
Poster Session 1. / Wednesday, 25 June 9:30-10:00						
1	Shu-Yao	Tsai	TAIWAN	33	Soy whey as a medium for enhanced bacterial cellulose production and microcalorimetric analysis of its effects on lactic acid bacteria	T01 Bio sciences, including food, soil, textile, wood
2	Julían E.	López	COLOMBIA	81	Thermogravimetric analysis for assessing changes in soil organic matter pools during amendment-assisted remediation	T01 Bio sciences, including food, soil, textile, wood
3	Joanna	Grzelczyk	POLAND	90	Determination of the temperature and gelation rate of hydrocolloids extracted from fruit pomace by differential scanning calorimetry	T01 Bio sciences, including food, soil, textile, wood
4	Zhi-Juan	Pan	CHINA	97	Construction of self-reinforced networks with high-crystallinity silk nanofibrils for ultrafine and biodegradable recycled regenerated silk fibroin monofilament sutures	T01 Bio sciences, including food, soil, textile, wood
5	Jitka	Krouská	CZECH REPUBLIC	168	Soil microbial metabolism from a calorimetric and respirometric perspective	T01 Bio sciences, including food, soil, textile, wood
6	Lenka	Findoráková	SLOVAKIA	203	Heavy metal agricultural soil pollution and soil organic matter study, via X-ray fluorescence spectrometry and thermal analysis, in Košice, Slovakia	T01 Bio sciences, including food, soil, textile, wood
7	Joseph N E	Lejeune	FRANCE	410	PET materials for mid-IR reflective properties	T01 Bio sciences, including food, soil, textile, wood
8	Gabriela	Vlase	ROMANIA	330	Physicochemical and antioxidant characterisation of a food supplement based on Ginger (zingiber officinale), in vitro evaluation	T01 Bio sciences, including food, soil, textile, wood
9	Shota	Barbakadze	GEORGIA	348	Survival and growth of <i>Spirulina platensis</i> cells in a Zarrouk's medium where K <sup>+</sup> was replaced by an equal molar amount of Cs <sup>+</sup> ions, irradiated with Cs137 γ at 180 kGy	T01 Bio sciences, including food, soil, textile, wood
10	Mohamed	Bassyouni	EGYPT	378	Recent developments in sustainable composting methods for organic fertilizer production from biowaste	T01 Bio sciences, including food, soil, textile, wood
11	Juan Carlos	Moreno-Pirajan	COLOMBIA	36	Studying the influence of bone char synthesis settings over its properties and its interaction with glyphosate: application of immersion calorimetry	T02 Calorimetry
12	Liliana	Giraldo	COLOMBIA	38	Preparation of activated carbons from CD's waste for SO <sub>2</sub> and NO <sub>x</sub> adsorption: study using adsorption calorimetry	T02 Calorimetry
13	Irena	Jankowska-Sumara	POLAND	200	Calorimetric analysis of antiferroelectric Pb(Hf1-xSnx)O <sub>3</sub> single crystals	T02 Calorimetry
14	Shota	Barbakadze	GEORGIA	341	Thermodynamic stability and yield of phycobiliprotein complex of <i>Spirulina platensis</i> after exposure to low (-196C,-80C,-40C, -20C) temperatures	T02 Calorimetry
15	Vilma Petkova	Stoyanova	BULGARIA	421	Application of inert mineral fillers for practical ecological solutions in cement mortars	T03 Cements, building materials
16	Chung-Hao	Wu	TAIWAN	4	Develop a new instrument to test the bond strength of reinforced concrete at high temperature	T03 Cements, building materials
17	Juan F.	Saldarriaga	COLOMBIA	49	Influence of fly ash replacement on monoliths subjected to acid and base solution attack	T03 Cements, building materials
18	Vilma	Vaicekauskienė	LITHUANIA	132	Effect of metakaolin waste as a pozzolanic additive on the hydration processes and properties of cement stone	T03 Cements, building materials
19	Melih	Yildiz	TÜRKIYE	429	Sustainability analyses of connected vehicle technologies	T07 Energy conversion and storage
20	Farzad	Zolfaghari	LITHUANIA	430	Comparative analysis of diesel and waste cooking oil blends on engine performance and emissions using statistical and machine learning approaches	T09 Fuels, biofuels
Poster Session 2. / Wednesday, 25 June 15:00-15:30						
1	Juan F.	Saldarriaga	COLOMBIA	50	Evaluation of the deterioration of monolith specimens made of fly ash-cement mixtures subjected to leachate from the Doña Juana sanitary landfill	T03 Cements, building materials
2	Martin	Palou	SLOVAKIA	170	Resistance of LC <sup>3</sup> cement pastes against supercritical CO <sub>2</sub> attack	T03 Cements, building materials
3	Yinying	Du	LITHUANIA	114	Effect of superplasticisers and multiwalled carbon nanotubes on the fresh and hardened properties of cement paste	T03 Cements, building materials
4	Arnon	Chaipanich	THAILAND	117	Thermogravimetric analysis and phase characterizations of autoclaved fly ash mortars with different calcium oxide content	T03 Cements, building materials
5	Maite	Garcia-Valles	SPAIN	201	Valorization of concrete washing slurries for environmentally friendly applications	T03 Cements, building materials
6	Pura	Afonso	SPAIN	202	Mineralogy of the thermally activated fine fraction of construction and demolition wastes	T03 Cements, building materials
7	Silvie	Švarcová	CZECH REPUBLIC	258	Calcium formate as accelerator of LC <sup>3</sup> cement hydration	T03 Cements, building materials
8	Gyorgy	Thalmaier	ROMANIA	405	Octane-expanded perlite PCM composites for thermal management in buildings	T03 Cements, building materials
9	Branislav	Hruška	SLOVAKIA	393	Thermo-analytical and spectroscopic study of aluminoborosilicate glasses	T04 Ceramics, glasses
10	Joerg	Pezoldt	GERMANY	106	Silicon and carbon multilayer transformation into cubic silicon carbide	T04 Ceramics, glasses
11	Wojciech A.	Pisarski	POLAND	144	Thermal properties of boro-germanate glasses	T04 Ceramics, glasses
12	Joanna	Pisarska	POLAND	145	Fluorindate glasses: thermal, structural and optical investigations	T04 Ceramics, glasses
13	Pura	Alfonso	SPAIN	327	Vitrification of contaminated technosols as a remediation strategy with economic benefits	T04 Ceramics, glasses
14	Marcin	Gajek	POLAND	213	Analysis of physicochemical properties of clinker tiles with the addition of alternative waste raw materials	T04 Ceramics, glasses
15	Katarzyna	Pasiut	POLAND	234	Correlation between thermal properties and the structure of glass-crystalline ceramic glazes	T04 Ceramics, glasses
16	Elif Zeyneb	Tekin	TÜRKIYE	431	Assessment of engine thermal efficiency in relation to angle of attack: a digital twin-based approach	T08 Exergy, experimental thermodynamics
17	Doğa	Kılıç	TÜRKIYE	371	Application of digital twin technology for the analysis of combustion emission of fuel blends	T09 Fuels, biofuels
18	Ebru	Bahcecioglu	TÜRKIYE	366	Thermal stress and material fatigue in cargo parachutes	T14 Life sciences
19	Mehmet Ziya	Sogut	TÜRKIYE	14	Entropy-driven approach to irreversibility management in ship engines	T14 Life sciences
20	Maurizio	Grigianti	ITALY	223	Thermophysical properties evaluation on polymers and phase change materials: a systematic study	T24 Thermal conductivity
Poster Session 3. / Wednesday, 25 June 15:30-16:00						
1	Mária	Chromčíková	SLOVAKIA	394	Thermo-mechanical and corrosion study of barium crystal gasses	T04 Ceramics, glasses
2	Aleksandra	Nowicka	SLOVAKIA	395	Compositional influence on physico-chemical properties of SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -B <sub>2</sub> O <sub>3</sub> based glassy networks	T04 Ceramics, glasses
3	Marcin	Gajek	POLAND	212	Evaluation of the properties of silica materials dotted with silver nanoparticles	T04 Ceramics, glasses
4	Alexandra M.	Tăşală	ROMANIA	318	Characterization of red pigment mixtures with binders used in restorations through hyphenated techniques	T05 Cultural heritage
5	Titus	Vlase	ROMANIA	332	Bronze, faience and unknown: analysis of late bronze age samples from the Grămurada de la Jupani site (Susani, Traian Vuia, Romania) using thermal, microscopic and spectroscopic techniques	T05 Cultural heritage
6	Laura D	Pitulice	ROMANIA	344	Physico-chemical techniques and statistical analysis of heritage objects data	T05 Cultural heritage
7	Haifeng	Huang	CHINA	95	Thermal behavior and compatibility study of dihydroxylammonium 3,4-dinitraminofurazan	T06 Energetic materials
8	Yifei	Ling	CHINA	96	Preparation of high iron containing polyvinylferrocenes burning rate catalyst and their catalytic performance for AP	T06 Energetic materials
9	Piotr	Prasula	POLAND	109	Studies on thermal decomposition of fusible insensitive explosive compositions based of 2,4-dinitroanisole and waxes	T06 Energetic materials
10	Aleksandra Martyna	Bobowska	POLAND	304	Perovskite-based materials for an application in CLOU technology	T06 Energetic materials
11	Chun-Ping	Lin	TAIWAN	34	Evaluations of plant-based dielectric fluids for transformers: performance, stability, and sustainability	T07 Energy conversion and storage
12	Lubomíra	Drozdová	CZECH REPUBLIC	139	Thermal management optimisation in AB <sub>2</sub> metal hydride storage: dynamic analysis of hydrogen absorption and desorption	T07 Energy conversion and storage
13	Artūras	Kilikevičius	LITHUANIA	65	Optimizing cogeneration plant performance for sustainable energy in multi-energy demand industries	T07 Energy conversion and storage
14	Martyna	Szatkowska	POLAND	68	Properties of porous materials from carbonised biomass infiltrated with PEG6000 modified with graphene	T07 Energy conversion and storage
15	Obai Younis	Taha	SAUDI ARABIA	119	The impact of inner tube shape on the performance of a hexagonal porous thermal energy storage unit loaded with NEPCM	T07 Energy conversion and storage
16	Anna	Fehér	HUNGARY	418	Sustainable thermal management via transportable heat storage units	T07 Energy conversion and storage
17	Esma	Ulusan	TÜRKIYE	369	Determinants of carbon emissions: globalization, energy consumption and passenger transportation	T14 Life sciences
18	Joanna	Smorawska	POLAND	60	Bio-based diisocyanates - synthesis, characterization and application	T21 Polymers
19	Juan Francisco	Ruiz Gueron	SPAIN	136	Comparative kinetic study of the melt polymerization of isomeric dinitriles monomers by thermal analysis	T21 Polymers
20	Sebastian	Prewendowski	POLAND	217	Hot-stage microscopic analysis of strzegom granites in the context of their chemical composition and thermal properties	T28 Thermal imaging
Poster Session 4. / Thursday, 26 June 9:30-10:00						
1	Juan Carlos	Moreno-Pirajan	COLOMBIA	37	Optimization of functionalized nanomaterials for gas capture: a study based on adsorption calorimetry	T02 Calorimetry
2	Aleksandra	Nowicka	SLOVAKIA	391	The influence of Li <sub>2</sub> O on the structure and thermal properties of Al <sub>2</sub> O <sub>3</sub> -CaO-K <sub>2</sub> O-Na <sub>2</sub> O-SiO <sub>2</sub> glass	T04 Ceramics, glasses
3	Alexandra M.	Tăşală	ROMANIA	317	Study of blue pigments used in paintings: insights from thermal and hyphenated analytical techniques	T05 Cultural heritage
4	Muhammad	Farooq	SAUDI ARABIA	219	Autonomous desalination unit using solar photovoltaic energy: a sustainable approach for water purification	T07 Energy conversion and storage
5	Jurij	Avsec	SLOVENIA	324	Steam turbine condenser cooling tubes analysis after hp&ip steam bypass modification	T07 Energy conversion and storage
6	Yousra	Filali Baba	MOROCCO	222	Thermal energy storage systems: PSO-driven approach for improved performances and operational reliability	T07 Energy conversion and storage
7	Ahmed	Al Mers	MOROCCO	165	Thermocline energy storage for enhancing the thermal performance of a hybrid compression-absorption cooling machine powered by a linear Fresnel CSP system	T07 Energy conversion and storage
8	Sang Shin	Park	SOUTH KOREA	147	CFD simulation for co-gasification of coal blended with biomass in an one-stage oxygen-blown entrained bed co-gasifier	T08 Exergy, experimental thermodynamics
9	Syarifah	Abd Rahim	MALAYSIA	250	Solubility and thermodynamic function of carbamazepine-saccharin co-crystal in ethanolic solution	T08 Exergy, experimental thermodynamics
10	Ajith Kumar	Parwani	INDIA	269	Enhancing diesel engine performance with ionic liquid and graphene quantum dots	T09 Fuels, biofuels
11	Mariusz	Wądrzyk	POLAND	370	Thermal behaviour of hydrochars produced from apple pomace at different process temperatures: stability and value-added chemicals production	T09 Fuels, biofuels
12	Marek	Plata	POLAND	333	Thermogravimetric and calorimetric analysis of biocrude from pretreatment-enhanced hydrothermal liquefaction	T09 Fuels, biofuels
13	Kamila M.	Zaborowska	POLAND	290	Production of green diesel via oleic acid hydrodeoxygenation over carbon-supported nickel catalysts	T09 Fuels, biofuels
14	Rafał	Łysowski	POLAND	285	Cuprospinel as oxygen carrier for solid fuel combustion	T09 Fuels, biofuels
15	Łukasz	Korzeniowski	POLAND	340	The effect of hydrothermal processing temperature on the characteristic of hydrochars obtained from apple pomace	T09 Fuels, biofuels
16	Marek	Lewandowski	POLAND	346	Activity of amorphous NiB/SiO <sub>2</sub> in hydrotreating model reaction: hydrodenitrogenation of carbazole	T09 Fuels, biofuels
17	Dóra	Csereznýés	HUNGARY	209	Past and present of thermal analysis in the geological survey of Hungary	T10 Geosciences and minerals
18	Sebastian	Prewendowski	POLAND	216	Optimization of functional properties of clay raw materials using integrated thermal analysis methods	T10 Geosciences and minerals
19	Mihaela M	Budui	ROMANIA	308	Thermoanalytical and spectroscopic study of flunarizine dihydrochloride and binary mixtures of drug and excipients stored in extreme environments	T20 Pharmaceuticals
20	Julían E.	López	COLOMBIA	78	Oxidative pyrolysis of refuse-derived fuel (rdf): a kinetic study	T22 Pyrolysis
Poster Session 5. / Thursday, 26 June 15:00-15:30						
1	Alexandra	Sagatova	CZECH REPUBLIC	436	Investigating CO <sub>2</sub> capture and sequestration via volumetry, thermal analysis, and calorimetry	T07 Energy conversion and storage
2	Paul S	Thomas	AUSTRALIA	313	Physical characterisation of a porous precious play-of-colour opal	T10 Geosciences and minerals
3	Hong Yee	Kek	MALAYSIA	141	Human-induced airflow and particle transport in isolation wards: CFD assessment of ventilation effectiveness	T11 Heat transfer
4	Sien Jie	Wong	MALAYSIA	107	Digital twin-enabled ventilation control for enhanced thermal comfort and sustainability in smart buildings: a review	T11 Heat transfer
5	Anna	Fehér	HUNGARY	163	Literature review on coating and coatings processes for optimizing heat dissipation in break systems	T11 Heat transfer
6	Adnan	Qayoum	INDIA	259	Heat and fluid flow investigation of synthetic jet impingement in electronic cooling	T11 Heat transfer
7	Ewelina	Ziđkowska	POLAND	438	Artificial intelligence-based prediction of outlet air and water temperatures in heat exchangers under sudden variations of input parameters	T11 Heat transfer
8	Meiqian	Chen	CHINA	400	Experimental assessment on the thermal and moisture migration of sand-based backfill materials combined with fly ash	T11 Heat transfer
9	Wenkui	Zhu	CHINA	423	Research on dynamic changes of moisture content and temperature in tobacco shreds during fixed-bed convective drying and numerical simulation	T11 Heat transfer
10	Bin	Li	CHINA	424	Research on the application of multidimensional thermal analysis technology in stock tobacco raw material usage recommendation and cigarette manufacturing quality tracking	T11 Heat transfer
11	Lili	Fu	CHINA			