

JTACC-V4 2023 Poster Sessions*
Danubius Hotel Annabella, Ground Floor Lobby

Poster Session 1. / Wednesday, 21 June 9:30-10:00

TV No.	Name		Country	Abstract title	Topic
1	Pereira Rodríguez	Mercedes	Spain	Assessment of fibre release susceptibility by pilling experiments and thermal analysis techniques	Bio sciences, including food, soil, textile, wood
2	Lin	Chun-Ping	Taiwan	Evaluation of the growth-promoting effects of two different types of Pleurotus spp. mushroom polysaccharides on probiotics using microcalorimetry	Bio sciences, including food, soil, textile, wood
3	Compeľová	Kristína	Slovakia	Lightweight cement pastes submitted to accelerated carbonation	Cements, building materials
4	Gupta	Nitin	Austria	Investigating thermal curing behaviour of phenol formaldehyde resin using differential scanning calorimetry and dielectric analysis	Calorimetry
5	Moreno-Pirajan	Juan Carlos	Colombia	Enthalpy of immersion of activated carbon in aliphatic and aromatic organic solvents: benzene, toluene, cyclohexane, hexane and in binary mixtures of these compounds	Calorimetry
6	Palou	Martin	Slovakia	Mix proportion and experimental study of heavyweight self-compacting concrete based on magnetite and barite	Cements, building materials
7	Bolonova	Elena	Hong Kong	The thermodynamic and kinetic study of protein denaturation and renaturation using isothermal titration calorimetry	Calorimetry
8	Pérez-Isidoro	Rosendo	Mexico	Hybrid liposomes of dppc/cholesterol/octyl-beta-D-glucopyranoside with and without ibuprofen: calorimetric and morphological study	Calorimetry
9	Deikhovskiy	Yurii	Poland	Influence of selected grain size fractions of coal fly ash on properties of clay-cement mortars used for the flood levees construction	Cements, building materials
10	Koňáková	Dana	Czech Republic	Mechanism of thermal activation of low-grade mixed clays	Cements, building materials
11	Vejmelková	Eva	Czech Republic	Phase development of lime-based plasters blended with waste calcined shale studied by means of thermal analysis	Cements, building materials
12	Hruska	Branislav	Slovakia	Preparation of monophasic YAG raw material by multi-stage process	Ceramics, glasses
13	Kusiorowski	Robert	Poland	Characterization of asbestos-containing wastes by thermal analysis	Cements, building materials
14	Nowacka	Mariola	Poland	Studies on the reactivity of aluminosilicate addition in the hydrated calcium aluminate cement system	Cements, building materials
15	Lőrinczy	Dénes	Hungary	Thermal analysis of biceps tendon of patients underwent reversed shoulder arthroplasty due to comminuted proximal humerus fractures	Life sciences

Poster Session 2. / Wednesday, 21 June 10:00-10:30

TV No.	Name		Country	Abstract title	Topic
1	Čepčianska	Jana	Slovakia	Study of supplementary cementitious materials influence on the hydration course of fiber reinforced heavy-weight self-compacting mortars by thermal analysis and mercury intrusion porosimetry	Cements, building materials
2	Tsai	Shu-Yao	Taiwan	Antioxidant, oxidation stability via thermal analysis, and anti-inflammatory properties of antrodia camphorata and sanghuangporus sanghuang complex extracts	Bio sciences, including food, soil, textile, wood
3	Compeľová	Kristína	Slovakia	Combined chemical corrosion of cementitious binders at hydrothermal conditions	Cements, building materials
4	Estokova	Adriana	Slovakia	Diagnostics of concrete materials' deterioration – a case study	Cements, building materials
5	Moreno-Pirajan	Juan Carlos	Colombia	Adsorption calorimetry: comparative study between experimental determinations and theoretical models using Gas-MOF's	Calorimetry
6	Gerle	Anna	Poland	Thermogravimetric analysis of oxidation reaction of graphites for refractory materials	Ceramics, glasses
7	Pisarska	Joanna	Poland	Thermal, structural and optical aspects for germanate ceramics	Ceramics, glasses
8	Pérez-Isidoro	Rosendo	Mexico	Biophysical study of copolymer-bioconjugates decorated liposomes with and without amantadine	Calorimetry
9	Szamera	Magdalena	Poland	Implications of sulfate addition on glass forming properties of the SiO ₂ -P ₂ O ₅ -K ₂ O-MgO-CaO system	Ceramics, glasses
10	Akusevich	Alena	Slovakia	Microstructure and mechanical properties of ceramic material in system Al ₂ O ₃ -Y ₂ O ₃ prepared by horizontal directed crystallization method	Ceramics, glasses
11	Chromčíková	Mária	Slovakia	Thermal properties and thermodynamic model of lithium doped 45S5 bioglass	Ceramics, glasses
12	Hruska	Branislav	Slovakia	Thermodynamic model of 45S5 bioglass	Ceramics, glasses
13	Pisarski	Wojciech	Poland	Influence of titanium dioxide concentration on thermal properties of germanate based glasses	Ceramics, glasses
14	Csáki	Stefan	Slovakia	Heat induced reactions in ceramics described in terms of dc electrical conductivity	Ceramics, glasses
15	Trník	Anton	Slovakia	Kinetic analysis of the formation of high-temperature phases in illitic clay and limestone mixtures	Ceramics, glasses

Poster Session 3. / Wednesday, 21 June 15:40-16:10

TV No.	Name		Country	Abstract title	Topic
1	Vlase	Titus	Romania	Multiple technique analysis of pottery and clay samples from the eneolithic settlement Şoimuş - avicola site/ Şoimuş - Teleghi (Şoimuş, Hunedoara county, Romania)	Cultural heritage
2	Ksepko	Ewelina	Poland	Reactivity studies of mixed metal iron-manganese based oxygen carriers	Energetic materials
3	Balaz	Peter	Slovakia	Manipulation with mineral chalcopyrite CuFeS ₂ via mechanochemistry: thermoanalytical and thermoelectric performance	Energetic materials
4	Zemenová	Petra	Czech Republic	Influence of purity and grain size distribution of powdered NaCl on its thermal properties	Materials science
5	Hobbs	Michael L.	USA	Predicting detonator failure using DSC data	Energetic materials
6	Manasieva	Delyana Marinova	Bulgaria	Electrochemical properties of sulfates of transition metals and sodium as electrode materials in hybrid metal-ion batteries	Energy conversion and storage
7	Gwóźdź	Paulina Weronika	Poland	The effect of calcium amount and non-stoichiometry in the a-sublattice on the properties of doped strontium calcium titanate	Energy conversion and storage
8	Pielichowska	Kinga	Poland	Thermochromic phase change materials for thermal energy storage	Energy conversion and storage
9	Mesgarpour	Mehrdad	Thailand	A hybrid prediction method for study the effect of the shell-side flow microparticle fouling process on the thermal efficiency of shell and tube heat exchangers	Energy conversion and storage
10	Santos	Andreia F N	Portugal	Analyzing the thermal properties of geopolymers: a case study on energy conservation for the construction sector	Cements, building materials
11	Pólka	Marzena	Poland	Analysis of thermal and smoke generating properties of selected leathers	Fire dynamics (or others for fire safety)
12	Lakzian	Kazem	Taiwan	A mathematical model to predict the flash point behavior of solvent + ionic liquids mixtures	Fire dynamics (or others for fire safety)
13	Xiao	Yang	China	Effects on the characteristic of coal-dust explosion from different pre-oxidation coal samples	Fuels, biofuels
14	Kök	Mustafa Versan	Türkiye	Organic, thermal and model free kinetics of Celtek region oil shale deposits	Fuels, biofuels
15	Lemago	Hamsasew Hankaabo	Hungary	Thermal and plasma-assisted atomic layer deposition for the synthesis of inverse opal photocatalysts	Nanomaterials and composites

Poster Session 4. / Thursday, 22 June 9:30-10:00

TV No.	Name		Country	Abstract title	Topic
1	Blanco	Ignazio	Italy	Recycling volcanic fly ash through geopolymers: synthesis and thermal characterization	Geosciences and minerals
2	Lezzerini	Marco	Italy	Reactivity and overburning of quicklime: the case of limestones belonging to Tuscan Nappe Sequence (NW Tuscany, Italy)	Geosciences and minerals
3	van der Merwe	Liezel	South Africa	Thermochemical processing as an alternative to acid leaching for improved extraction of aluminium from coal fly ash	Geosciences and minerals
4	Chen	Meiqian	China	Regeneration behavior of solid desiccants with microwave-assisted hot air drying	Heat transfer
5	Kundu	Pranab Kumar	India	MHD free convection within square and rhombic contours actuated from below: a theoretical relative study	Heat transfer
6	Bhattacharyya	Suvanjan	India	Experimental and numerical investigation of nanoparticle assisted pcm based battery thermal management system	Heat transfer
7	Jačimović	Željko	Montenegro	Synthesis, structural, and thermal characterization of novel fomezole complexes of Zn(II) and Ni(II)	Inorganic materials
8	Dąbrowska	Grażyna	Poland	MgO-P2O5-Cr2O3 system: phase equilibria and properties of chromium magnesium phosphates	Inorganic materials
9	Bosacka	Monika	Poland	The reactivity of CeO ₂ towards MoO ₃ in air atmosphere	Inorganic materials
10	Lysowski	Rafal	Poland	Determination of Curie points of selected oxygen carriers using TGA method	Inorganic materials
11	Balintova	Magdalena	Slovakia	Using of thermal analysis for the study of barium sulphate reduction	Inorganic materials
12	Krishnan	Dhiya	Slovakia	The phase equilibria of Na ₃ AlF ₆ -NdF ₃ and (Na ₃ AlF ₆ -NdF ₃)eut-Nd ₂ O ₃ systems	Inorganic materials
13	Duller	Martina	Austria	Thermal curing behavior of bio-based melamine formaldehyde impregnating resins using sorbitol	Kinetics and catalysis
14	Saravanamuthu	Siva Kayiassa Sundan	Austria	Prediction of kinetic triplets for thermal curing of bio-based Epoxy resin	Kinetics and catalysis
15	Manic	Nebojsa	Serbia	Recovering of metals and metal oxides through thermal decomposition process of coal bottom ash: a comprehensive kinetic analysis	Kinetics and catalysis

Poster Session 5. / Thursday, 22 June 10:00-10:30

TV No.	Name		Country	Abstract title	Topic
1	Lőrinczy	Dénes	Hungary	Thermal analysis of the EB1 protein	Life sciences
2	Pólka	Marzena	Poland	Comparative analysis of the explosion parameters of selected gluten-free flour	Fire dynamics (or others for fire safety)
3	Elhenawy	Yasser	South Africa	Biofuels production from camel thorn biomass using pyrolysis process	Pyrolysis
4	Balaz	Peter	Slovakia	Promising optoelectric and thermoelectric properties of mechanochemically synthesized skinnerite Cu ₃ SbS ₃ and wittichenite Cu ₃ BiS ₃	Energetic materials
5	Wu	Chung-Hao	Taiwan	Mechanical properties of fiber-reinforced concrete incorporating high volume fly ash cured with brinewater	Materials science
6	Popis	Julia	Poland	Structural and thermal investigation of the ternary Mg-Zn-Ca system	Materials science
7	Vecchio Cipriotti	Stefano	Italy	Assessment of thermal stability of two N-ethoxyethyl-N-methylpiperidinium oxalotriborate ionic liquids by thermal analysis and Knudsen effusion techniques	Materials science
8	Dudek	Magdalena	Poland	Morphology-related thermal properties of nanocomposite membranes used in the renal replacement therapies	Materials Science
9	Deikhovskiy	Yurii	Poland	Grain size influence on speciation of selected properties of fractionated coal fly ashes	Materials science
10	Morawiec	Mateusz	Poland	Nanobainite formation in high-Al medium-Mn steels: Thermodynamic approach	Materials science
11	Dohnalová	Žaneta	Czech Republic	Effect of dopants on the properties of high temperature SrSnO ₃ perovskite compounds	Materials science
12	Vladut	Cristina M.	Romania	Synthesis and characterization of doped zinc oxide nanoparticles for nanofluids	Materials science
13	Rutkowski	Pawel	Poland	Thermal characteristics of polyurethanes for joints applications of wooden structures	Materials science
14	Petreanu	Irina M.	Romania	Thermal analysis of sulfonated polysulfone	Materials science
15	Černičková	Ivona	Slovakia	The effect of nickel addition on the microstructure of SAC 305 lead-free solders	Materials science

Poster Session 6. / Thursday, 22 June 15:40-16:10

TV No.	Name		Country	Abstract title	Topic
1	Đuriška	Libor	Slovakia	Influence of gallium addition on the microstructure and properties of SAC 305 lead-free solders	Materials science
2	Moyo	Dennis Simbarashe	South Africa	Thermal and structural characterization of fipronil	Materials science
3	Šulcová	Petra	Czech Republic	Preparation of alkaline earth metal stannate perovskites by thermal decomposition of ASn(OH) ₆ (A = Ca AND Sr)	Materials science
4	Zemenová	Petra	Czech Republic	Effect of sodium chloride on the oxidation process and properties of nanodiamonds	Materials science
5	Wu	Chung-Hao	Taiwan	The micro-hardness of the interfacial transition zone between steel bar and lightweight aggregate concrete with high volume blast furnace slag	Materials science
6	Popis	Julia	Poland	Thermal behaviour of Mg-Zn-Ca-Pr alloy synthesized by mechanical alloying	Materials science
7	Conti	Boris	France	Behaviour of Inconel®625 in CO ₂ between 900 and 1000°C	Metals, alloys, intermetallics
8	Betovics	András	Hungary	Environmentally friendly production of electricity, heat and cold energy with a CHP pyrolysis small power plant	Pyrolysis
9	Navratilova	Jana	Czech Republic	The effect of various β-nucleating agents on the morphology of polypropylene	Polymers
10	Oon	Cheen Sean	Malaysia	Thermohydraulic analysis of conical annular fins coupled with clove-treated graphene nanoplatelets nanofluids within an annular domain	Nanofluids
11	Mocioiu	Oana Catalina	Romania	Thermal behaviour and optical properties of silver doped zinc oxide nanoparticles obtained by sol-gel and microwave assisted sol-gel methods	Nanofluids
12	Ferdows	Mohammad	Bangladesh	Non-linear simulations of nanofluid flow in an MHD convective moving flat plate	Nanofluids
13	Settar	Abdelhakim	France	Effect of calcination temperature on the phase composition, morphology, thermal properties of ternary nanocomposites Mg-Zn-Co oxide by hydrothermal method for solid hydrogen storage	Nanomaterials and composites
14	Jačimović	Željko	Montenegro	Superparamagnetic COBALT substituted iron oxide nanoparticles as heat source in magnetic hyperthermia: influence COBALT concentration on Specific Loss Power	Nanomaterials and composites
15	Vágvolgyi	Veronika	Hungary	Preparation and photocatalytic activity of halloysite - Ni/Zn-oxide - magnetite nanocomposites	Nanomaterials and composites

Poster Session 7. / Friday, 23 June 9:30-10:00

TV No.	Name		Country	Abstract title	Topic
1	Uskaikar	Harsha	India	Synthesis of Co ₃ O ₄ / Polyaniline nanocomposite: structural, morphological, electrical and electrocatalytic properties	Nanomaterials and composites
2	Blanco	Ignazio	Italy	Thermal and radiation stability of POSS by the presence of hydrocarbon substituents	Nanomaterials and composites
3	Kristl	Matjaž	Slovenia	Synthesis and thermal characterization of magnetite-based functionalized nanoparticles for forward osmosis	Nanomaterials and composites
4	Grabchev	Ivo	Bulgaria	Photosensitive dendrimers as a good alternative to antimicrobial photodynamic therapy of gram-negative bacteria	Organic materials
5	Konstantinov	Konstantin M	Bulgaria	Synthesis and optical properties of peri-disubstituted tellurolo-1,8-naphthalimides	Organic materials
6	Mutovska	Monika	Bulgaria	Synthesis of heterocyclic extended 1,8-naphthalimides	Organic materials
7	Staneva	Desislava	Bulgaria	Enhanced photodynamic efficacy using 1,8-naphthalimides: potential application in antibacterial photodynamic therapy	Organic materials
8	Stoyanov	Stanimir S	Bulgaria	Dioxepine-peri-annulated PMIs – synthesis and spectral and sensing properties	Organic materials
9	Zagranjarski	Yulian D	Bulgaria	New powerful building block molecules in 1,8-naphthalimide chemistry	Organic materials
10	Bumbac	Marius	Romania	Influence of biogenic material content on biodegradability of styrene-butadiene composites with chlorella vulgaris biomass	Polymers
11	Gomes	Ana Paula Barreto	Brazil	Compatibility evaluation between tamsulosin and pharmaceutical excipients	Pharmaceuticals
12	Vlase	Gabriela	Romania	Preliminary study of polymer-based membrane for methotrexate drug delivery	Pharmaceuticals
13	Nicolescu	Cristina Mihaela	Romania	On the structural consequences in the thermal degradation of styrene block copolymers	Polymers
14	Vlase	Titus	Romania	Kinetic study and thermal stability of Sartan class drugs	Pharmaceuticals
15	Cavalheiro	Éder TG	Brazil	Thermal behavior and drug/excipient compatibility studies of antiviral famciclovir	Pharmaceuticals

Poster Session 8. / Friday, 23 June 10:00-10:30

TV No.	Name		Country	Abstract title	Topic
1	Pucko	Ivan	Croatia	Influence of functional comonomers in the polymer additive on the low-temperature properties of diesel fuel	Polymers
2	Gajzlerova	Lenka	Czech Republic	The influence of specific nucleation and branching on the properties of blends of polypropylene	Polymers
3	Várady	Zsolt István	Hungary	Investigation of stability, rheological properties and thermal conductivity of hybrid SiO ₂ -ZnO nanofluids	Nanofluids
4	Samal	Sneha	Czech Republic	Thermo-mechanical effect on NiTi ribbon with PMMA polymer	Polymers
5	Aljamal	Amer	Hungary	Utilization of phytic acid as a reactive flame retardant in the preparation of a fully bio-based waterborne epoxy coating	Polymers
6	Fischer	Olivier	Canada	Thermogravimetric analysis and kinetic modeling of the pyrolysis of the AAEM-catalyzed pyrolysis of spruce wood, wheat straw, switchgrass, miscanthus and swine manure	Pyrolysis
7	Lukács	Nóra	Hungary	Flame retardancy of recycled PET foams produced by batch foaming	Polymers
8	Liezák	Énese	Hungary	Balanced improvement of mechanical properties and thermal resistance of recycled PET by additives and post-crystallization	Polymers
9	Pagacz	Joanna Michalina	Poland	Poly(e-caprolactone)/hydroxyapatite composites - thermal and IR studies on the modified material	Polymers
10	Bumbac	Marius	Romania	Stability effects of microalgae extracts in the SBS substrate	Polymers
11	Gomes	Ana Paula Barreto	Brazil	Compatibility study drug-excipient: an evaluation between hydroquinone and imidazolidinyl urea interactions	Pharmaceuticals
12	Vlase	Gabriela	Romania	Compatibility study for new transdermal Lefunomide delivery systems	Pharmaceuticals
13	Nicolescu	Cristina Mihaela	Romania	Biodegradation study of styrene-butadiene composites with arthrospira platensis biomass	Polymers
14	Vázquez	Laura S.	Spain	Isothermal crystallization kinetics of two polyamides	Polymers
15	Pielichowski	Krzysztof	Poland	Non-isocyanate polyurethane hydrogels modified physically with POSS – thermal study	Polymers

Poster Session 9. / Friday, 23 June 15:00-15:30

TV No.	Name		Country	Abstract title	Topic
1	Bulátkó	Anna	Hungary	Intermolecular interactions in controlled release systems	Polymers
2	Li	Mi	China	Research on the pyrolysis mechanism of waste wood using modified distributed activation energy model	Pyrolysis
3	Manic	Nebojsa	Serbia	Nitrogen distribution analysis during the devolatilization process of various feedstocks using TG-DTG-MS analysis	Pyrolysis
4	Bohus	Marcell	Hungary	Comparative study on stability, viscosity and thermal conductivity of hydroxyl and carboxyl group functionalized multi walled carbon nanotube nanofluids	Nanofluids
5	Elhenawy	Yasser	South Africa	Experimental analysis and numerical simulation of biomass pyrolysis	Pyrolysis
6	Vecchio Cipriotti	Stefano	Italy	Thermal degradation study and evaluation of fire properties of epoxy modified resins	Materials science
8	Kaniewski	Maciej	Poland	Examination of possible inhibitors of ammonium nitrate decomposition under limited mass transfer conditions	Thermal hazards, lifetime prediction
9	Liao	Sheng-Wei	Taiwan	Study on the connection between fire/explosion limit and the gas components released after thermal runaway of lithium-ion batteries under different SOC levels	Thermal hazards, lifetime prediction
10	Tseng	Jo-Ming	Taiwan	Thermal Inhibition analysis on ammonium nitrate mixed with dry extinguishing agent	Thermal hazards, lifetime prediction
11	Shu	Chi-Min	Taiwan	Components and thermal hazard characteristics of spark fireworks and cold light fireworks	Thermal hazards, lifetime prediction
12	Chen	Meiqian	China	Experimental evaluation on pyrolysis and gasification characteristics of simulated waste cation exchange resin	Thermochemistry
13	Fu	Kun	China	Predicting and optimizing on decontamination performance of metallic radionuclides in irradiated graphite in a fluidized bed reactor	Thermochemistry
14	Sogut	M. Ziya	Türkiye	Hydraulic balance effect of heating systems considering exergetic sustainability	Energy conversion and storage
15	Wong	Keng Yinn	Malaysia	Utilising localised exhaust and air curtain to reduce airborne particle settlement on surgical patients: Potential future application in operating rooms?	Life sciences