

POSTER PRESENTATIONS

<i>Poster Session 1 – Tuesday, 19 September 2023</i>			
Poster No	Author	Affiliation	Poster Title
<u>T1-1</u>	S L Badea	ICSI Rm Valcea	Recent progresses in separation techniques for lithium isotopes – an overview of chemical exchange methods in two liquid phases using crown ethers
<u>T1-2</u>	Z Balazs	INCDTIM Cluj-Napoca	Bottled water for babies versus bottled spring water - elemental and isotopic profile
<u>T1-3</u>	A Balla	INCDTIM Cluj-Napoca	Biochar – a green and versatile carbon-rich material
<u>T1-4</u>	S Bugeac	INCDTIM Cluj-Napoca	New random packing modular testing plant for ¹⁸ O isotope separation through H ₂ O vacuum distillation
<u>T1-5</u>	F D Covaciu	INCDTIM Cluj-Napoca	Fatty acids profile and metals content in selected sorts of cookies and biscuits offered children's
<u>T1-6</u>	G Cristea	INCDTIM Cluj-Napoca	Stables isotopes and elemental fingerprints are enough to identify the geographical origin of pork?
<u>T1-7</u>	A Dehelean	INCDTIM Cluj-Napoca	Quality and safety assessment of commercial infants and toddlers foods
<u>T1-8</u>	V Floare-Avram	INCDTIM Cluj-Napoca	Quantification of pesticide residues in frozen fruits and vegetables by GC-ECD and HPLC
<u>T1-9</u>	C Lar	INCDTIM Cluj-Napoca	Ruthenium type catalyst for selective deuteration of amino acids
<u>T1-10</u>	D A Magdas	INCDTIM Cluj-Napoca	Commercial fruit juices – between benefits and risks
<u>T1-11</u>	V Mirel	INCDTIM Cluj-Napoca	Isotopic and elemental fingerprint – an effective association for vegetable authentication
<u>T1-12</u>	Z Moldovan	INCDTIM Cluj-Napoca	Determination of emerging contaminants in drinking water sources
<u>T1-13</u>	Cs Molnar	INCDTIM Cluj-Napoca	SERS discrimination of varieties of small berry fruits
<u>T1-14</u>	R H Puscas	INCDTIM Cluj-Napoca	The study of changes in the composition of stable isotopes of eggs at different storage temperatures
<u>T1-15</u>	S Radu	INCDTIM Cluj-Napoca	Methods for characterization of random packings used in isotope separation
<u>T1-16</u>	J-Zs Szucs-Balazs	INCDTIM Cluj-Napoca	Optimum design of multi-stage separation cascades for oxygen isotope separation
<u>T1-17</u>	C Voica	INCDTIM Cluj-Napoca	Elemental content and stable isotope fingerprinting for of potatoes from Romanian market
<u>T2-1</u>	D Cuibus	INCDTIM Cluj-Napoca	Long-range order and photonic effects in colloidal microsphere arrays obtained by

			convective self-assembly vs air-water interface self-assembly
<u>T2-2</u>	M Bacalum	IFIN-HH Magurele	Antimicrobial peptides interaction with model and mammalian membranes
<u>T2-3</u>	S Boca	INCDTIM Cluj-Napoca	Modulation of gold nanoparticle morphology for improved loading of therapeutic oligomers
<u>T2-4</u>	B Bosca	Babes-Bolyai University Cluj-Napoca	Rapid and reliable chromatographic profiling of thiosulfates in Allium species
<u>T2-5</u>	I A Brezestean	INCDTIM Cluj-Napoca	Immuno-detection of cancer biomarker CEA-CAM5 using SERS-active gold nanourchins
<u>T2-6</u>	I B Cozar	INCDTIM Cluj-Napoca	Fabrication of Highly Sensitive and Selective SERS-active Nanostructured Plasmonic Platforms
<u>T2-7</u>	R Crainic	Babes-Bolyai University Cluj-Napoca	Experimental and numeric simulation used for the characterization of nanofibers biomaterials produced by electrospinning
<u>T2-8</u>	N E Dina	INCDTIM Cluj-Napoca	SERS-based monitoring of the efficiency of new generation antimicrobial agents
<u>T2-9</u>	A-A Farcas	INCDTIM Cluj-Napoca	Intermolecular interactions in uric acid cluster
<u>T2-10</u>	Al. Farcas	INCDTIM Cluj-Napoca	Computational design optimization of gene delivery vectors for the CRISPR/Cas9 systems
<u>T2-11</u>	C Farcau	INCDTIM Cluj-Napoca	Mechanically tunable, polarization-dependent plasmon resonances in linear oligomers of gold nanospheres
<u>T2-12</u>	C G Floare	INCDTIM Cluj-Napoca	In-silico analysis of potential inhibitors of eye lens gamma-crystallin aggregation and cataract prevention
<u>T2-13</u>	A M M Gherman	INCDTIM Cluj-Napoca	Convolutional neural network for randomly shaped ultrashort pulse characterization
<u>T2-14</u>	L Janosi	INCDTIM Cluj-Napoca	Molecular Modeling and Simulations Play a Key Role in the Design of Novel Anti-Cancer Peptides
<u>T2-15</u>	I Kacso	INCDTIM Cluj-Napoca	Investigation of Vitamin C and β -cyclodextrin interactions in liquid and solid state
<u>T2-16</u>	K Kovacs	INCDTIM Cluj-Napoca	Femtosecond laser pulse filamentation in air
<u>T2-17</u>	I Lung	INCDTIM Cluj-Napoca	Assessment of cymoxanil residues in selected fruits and vegetables using HPLC-PDA/MS
<u>T2-18</u>	I Marica	INCDTIM Cluj-Napoca	Plasmonic nanostructured substrates fabricated by colloidal lithography for nanoplastics SERS detection
<u>T2-19</u>	F A Martin	INCDTIM Cluj-Napoca	Ketoconazole-PAMAM dendrimer carrier system for topical use
<u>T2-20</u>	E Matei	INCDTIM Cluj-Napoca	Structural study of cataract-causing p23T mutant of γ D-crystallin by Nuclear

			Magnetic Resonance
<u>T2-21</u>	M Mic	INCDTIM Cluj-Napoca	Inclusion of CHT in β -cyclodextrin nanocavity and its effect on antioxidant potential of CHT: A calorimetric, spectroscopic and molecular docking approach
<u>T2-22</u>	C M Muntean	INCDTIM Cluj-Napoca	Structural changes of bacterial strains DNAs upon femtosecond laser irradiation, as proved by Fourier transform infrared (FT-IR) spectroscopy
<u>T2-23</u>	F Nekvapil	INCDTIM Cluj-Napoca	Effect of focusing on SERS spectra profiles studied by experiment and FDTD simulation
<u>T2-24</u>	A Pirnau	INCDTIM Cluj-Napoca	Antioxidant Activity Evaluation and Assessment of the Binding Affinity to HSA of a New Catechol Hydrazinyl-Thiazole Derivative
<u>T2-25</u>	D I Popescu (Stegarus)	ICSI Rm Valcea	Determination of pesticides residues in eggplants using gas chromatography-mass spectrometry
<u>T2-26</u>	A M Rostas	INCDTIM Cluj-Napoca	Electron Paramagnetic Resonance fingerprinting of yeast cells overexpressing metal-binding peptides
<u>T2-27</u>	L R Saitis	Babes-Bolyai University Cluj-Napoca	Spectroscopic NMR and FT-IR approach used for the evaluation of healing after surgical interventions for patients with Colorectal Cancer
<u>T2-28</u>	A Simion	INCDTIM Cluj-Napoca	Cross-polarization under fast MAS NMR: from spin dynamics to experimental methods
<u>T2-29</u>	A D Stoica	INCDTIM Cluj-Napoca	Oxidative stress evaluation in cells exposed to halloysite nanoparticles
<u>T2-30</u>	A Tatar	INCDTIM Cluj-Napoca	Competitive oligomer-protein aptamer interaction for target quantification via SERS/SEF mechanism
<u>T2-31</u>	F Toadere	INCDTIM Cluj-Napoca	Plasmonic structural colors via metal-coated colloidal microsphere arrays
<u>T2-32</u>	V Tosa	INCDTIM Cluj-Napoca	Ultrashort IR and XUV pulse propagation in hollow core waveguides
<u>T2-33</u>	I F Toth	INCDTIM Cluj-Napoca	Ultrashort laser pulse characterization by deep learning methods
<u>T2-34</u>	I Turcu	INCDTIM Cluj-Napoca	Adhesion of Short Antimicrobial Peptides to Bacterial and Mammalian Membrane Models – A Molecular Modeling Approach
<u>T2-35</u>	A Varadi	Babes-Bolyai University Cluj-Napoca	Rapid determination of total iodine in solid samples using HPTLC method
<u>T2-36</u>	E Vereshchagina	SINTEF Digital Norway	Microfluidic integration of electrochemical surface-enhanced raman scattering sensors for detection of pesticides in surface waters

<u>T3-1</u>	E Bruj	INCDTIM Cluj-Napoca	Simulations of the combustion process with different hydrogen/methane mixtures
<u>T3-2</u>	O R Bruj	INCDTIM Cluj-Napoca	Efficient generator design for low wind turbines
<u>T3-3</u>	L-Buimaga Iarinca	INCDTIM Cluj-Napoca	AlOx composition by Molecular Dynamics simulations
<u>T3-4</u>	A Corbu	ICSI Rm Valcea	Wind and Hydrogen-Based Hybrid Power System for a Passive House. A Case Study
<u>T3-5</u>	M F Gaele	CNR_STEMS Italy	Towards eco-sustainable aluminum-air batteries
<u>T3-6</u>	R C Gavrea	INCDTIM Cluj-Napoca	Effect of Sr ²⁺ ions on the physical, optical and structural features on molybdenum-copper-lead glass
<u>T3-7</u>	G Kovacs	INCDTIM Cluj-Napoca	CFD Simulation and Comparative Analysis of Three Solar Receptor Designs: Enhancing Efficiency and Performance
<u>T3-8</u>	G T Man	ICSI Rm Valcea	Valorization of Agro-Industrial Residues through the Production of bioproducts with added value in the circular bioeconomy system
<u>T3-9</u>	A Mot	INCDTIM Cluj-Napoca	From green to white analytical chemistry: concepts and simple laboratory examples
<i>Poster Session 2 – Wednesday, 20 September 2023</i>			
<u>T3-10</u>	I Nadas	INCDTIM Cluj-Napoca	Super drawer testing and certification
<u>T3-11</u>	A Oprea	INCDTIM Cluj-Napoca	Solar Heating Simulation and Comparative Analysis of Three Liquid Metal Based Solar Receptor Designs: Enhancing Efficiency and Performance
<u>T3-12</u>	T Patarau	Technical University Cluj-Napoca	Optimization of the electrothermal evaporation process based on intelligent control of the power source
<u>T3-13</u>	L M Pioras- Timbolmas	INCDTIM Cluj-Napoca	Exploring the terrain of noise in superconducting qubits
<u>T3-14</u>	M N Pop	INCDTIM Cluj-Napoca	Add-on sensors for photovoltaic panels
<u>T3-15</u>	M S Raboaca	ICSI Rm Valcea	Solar and Hydrogen-Based Hybrid Power System for a Passive House. A Case Study
<u>T3-16</u>	T Radu	INCDTIM Cluj-Napoca	Properties of industrial waste modified bituminous mastic
<u>T3-17</u>	O Raita	INCDTIM Cluj-Napoca	Transylvania DIH - one stop shop for innovation
<u>T3-18</u>	G Rosca	INCDTIM Cluj-Napoca	Low voltage distribution harness cables
<u>T3-19</u>	C Tripon	INCDTIM Cluj-Napoca	Photopyroelectric technique: spectroscopic and calorimetric applications
<u>T3-20</u>	S C Ulinici	ICPE Bistrita S.A.	Numerical modelling of integrated photocatalytic ozonation/membranes filtration processes for water treatment

<u>T3-21</u>	F Vasut	ICSI Rm Valcea	Innovative Technologies of separating 6Li in order to obtain a separation factor as high as possible - A review
<u>T3-22</u>	F Vasut	ICSI Rm Valcea	Catalysts for the recombination of hydrogen with oxygen
<u>T3-23</u>	M Zagrai	INCDTIM Cluj-Napoca	Cations influence on molybdate species distributions in copper-lead glass
<u>T3-24</u>	F Farcas	INCDTIM Cluj-Napoca	Cloud Computing at ITIM
<u>T4-1</u>	I Baldea	INCDTIM Cluj-Napoca	Tumor apoptosis and cell cycle arrest induced by magnetic hyperthermia mediated by iron oxide nanoclusters
<u>T4-2</u>	C Banciu	ICPE-CA Bucharest	Improved durability of styrene-isoprene-styrene triblock copolymer added with reduced graphene oxide
<u>T4-3</u>	A Bunge	INCDTIM Cluj-Napoca	Synthesis of a magnetic sorbent only from waste materials
<u>T4-4</u>	R Chelcea	Technical University Cluj-Napoca	The development of an ecosystem in Martian soil simulants
<u>T4-5</u>	A Ciorita	INCDTIM Cluj-Napoca	Bio-polymer and hybrid nanocomposites: in vitro cytotoxicity against human cell lines
<u>T4-6</u>	A Colnita	INCDTIM Cluj-Napoca	Fabrication and SERS performances of hierarchical heterogeneous arrays decorated with star-like nanoparticles
<u>T4-7</u>	D Cosma	INCDTIM Cluj-Napoca	Graphene/TiO ₂ nanotubes decorated with gold nanoparticles for efficient photocatalytic degradation process
<u>T4-8</u>	I Craciunescu	INCDTIM Cluj-Napoca	Magnetic composite material for dental applications
<u>T4-9</u>	A Falamas	INCDTIM Cluj-Napoca	Surface-enhanced Raman scattering detection of endosulfan pesticide using colloidal nanoparticle architectures
<u>T4-10</u>	S Garabagiu	INCDTIM Cluj-Napoca	Structural and optical properties of oxidic thin films fabricated by PLD
<u>T4-11</u>	O Grad	INCDTIM Cluj-Napoca	MOFs supported NPs-catalysts for selective liquid-phase hydrogenation of nitrobenzene
<u>T4-12</u>	S Gutoiu	INCDTIM Cluj-Napoca	Crystalline Manganese Doped Copper Oxide Ability to Enhance Dopamine Electrochemical Detections
<u>T4-13</u>	G Ispas	INCDTIM Cluj-Napoca	Magnetic sawdust used in oil adsorption
<u>T4-14</u>	A M Kasza	INCDTIM Cluj-Napoca	MIL-53(Al)-derived Ni catalysts for CO ₂ hydrogenation
<u>T4-15</u>	I Lacan	Technical University Cluj-Napoca	Evaluation of absorption and solubility of calcium phosphate cements in artificial saliva
<u>T4-16</u>	C Leonardi	University of Rome Tor Vergata Italy	Dielectric properties of Layered Double Hydroxides (LDHs): a family of nanomaterials for Sensing, Energy and Environment
<u>T4-17</u>	C Leostean	INCDTIM	Synthesis and characterization of MWCNTs

		Cluj-Napoca	decorated with Fe-doped ZnO nanoparticles for organic pollutant degradation
<u>T4-18</u>	S Macavei	INCDTIM Cluj-Napoca	Synthesis and characterization of W-doped TiO ₂ nanoparticles for supercapacitors
<u>T4-19</u>	L Magerusan	INCDTIM Cluj-Napoca	Eco-friendly synthesis of sulphur-doped graphenes with applicability in gallic acid electrochemical assay from food related samples
<u>T4-20</u>	D Marconi	INCDTIM Cluj-Napoca	Tunable and flexible 3D nanostructured surfaces with controlled architectures fabricated by nanoimprint lithography
<u>T4-21</u>	C Marcu	INCDTIM Cluj-Napoca	Kinetics for NO ₂ ⁻ adsorption using an anion exchange resin, from aqueous solutions
<u>T4-22</u>	L Mathe	INCDTIM Cluj-Napoca	Phonon-assisted tunneling current through a quantum dot coupled to a Majorana nanowire
<u>T4-23</u>	A Mesaros	Technical University Cluj-Napoca	Rare-earth ions doping CeO ₂ nanoparticles – insight into the correlation structure-morphology-photocatalytic activity
<u>T4-24</u>	D Corpodean (Moldovan)	Technical University Cluj-Napoca	Structural and dynamic characterization by ¹ H NMR and FTIR analyses of oils obtained from waste plastics by low-temperature slow pyrolysis
<u>T4-25</u>	A Nan	INCDTIM Cluj-Napoca	Thermal conductivity enrichment for a novel thermoplastic polymer by using different filler
<u>T4-26</u>	V Niculescu	ICSI Rm Valcea	Wheat straws as raw material for biogenic silica
<u>T4-27</u>	O Opris	INCDTIM Cluj-Napoca	The impact assessment of multiwall carbon nanotubes functionalized with metal oxides on <i>Lactuca sativa</i> L.
<u>T4-28</u>	O Pana	INCDTIM Cluj-Napoca	Charge/spin transfer at interfaces between thin ferromagnetic films and 2D semiconductors
<u>T4-29</u>	A Petran	INCDTIM Cluj-Napoca	Particularities of polydopamine analogues
<u>T4-30</u>	S Pintea	INCDTIM Cluj-Napoca	Synthesis and structural characterization of modified mica surface used as pollutant removal
<u>T4-31</u>	F Pogacean	INCDTIM Cluj-Napoca	Enhanced Acetaminophen Electrochemical Sensing Based on Nitrogen-Doped Graphene
<u>T4-32</u>	A Popa	INCDTIM Cluj-Napoca	Facile preparation of PVDF / CoFe ₂ O ₄ -ZnO hybrid membranes for water depollution
<u>T4-33</u>	S Pruneanu	INCDTIM Cluj-Napoca	Highly Sensitive Graphene-Based Electrochemical Sensor for Nitrite Assay in Waters
<u>T4-34</u>	A Pusta	UMF Cluj-Napoca	Electrochemical Sensor for the Quality Control of Novel Doxorubicin Pharmaceutical Formulations
<u>T4-35</u>	S Rada	INCDTIM Cluj-Napoca	Development of composite – cement materials: XRD, FTIR and NMR study

<u>T4-36</u>	M C Rosu	INCDTIM Cluj-Napoca	One-pot synthesis of Au/TiO ₂ ±graphene oxide photoactive nanocomposites
<u>T4-37</u>	M L Soran	INCDTIM Cluj-Napoca	Biochar applied for tartrazine adsorption
<u>T4-38</u>	M Stan	INCDTIM Cluj-Napoca	Chemical synthesis of Al ₂ O ₃ particles from aluminum beverage cans
<u>T4-39</u>	M Stefan	INCDTIM Cluj-Napoca	ZnO based photocatalysts recycled from spent alkaline batteries
<u>T4-40</u>	A Stegarescu	INCDTIM Cluj-Napoca	Hydrogel with graphene for drug delivery
<u>T4-41</u>	R Suci	INCDTIM Cluj-Napoca	Preparation of Al modified TiO ₂ materials to promote photocatalytic activity
<u>T4-42</u>	N Terenti	INCDTIM Cluj-Napoca	Solvatochromism effect in new polydopamine analogues
<u>T4-43</u>	D Toloman	INCDTIM Cluj-Napoca	PVDF membranes modified with Ni-Co ferrites for water treatment
<u>T4-44</u>	A Urda	INCDTIM Cluj-Napoca	Photodegradation of acetaminophen and ibuprofen mediated by visible-light and Ni-TiO ₂ nanotubes catalysts
<u>T4-45</u>	C Varodi	INCDTIM Cluj-Napoca	CoNPs electrodeposition on screen printed electrodes for cymoxanil detection
<u>T4-46</u>	V Vinteler	Babes-Bolyai University Cluj-Napoca	Synthesis and characterization of CoFe ₂ O ₄ magnetic nanoparticles and CoFe ₂ O ₄ -BaTiO ₃ magnetoelectric core-shell nanoparticles
<u>T4-47</u>	B Zorila	IFIN-HH Magurele	Peptide doped ORMOSIL nanoparticles: preparation, characterization and efficiency testing on human cancer cell lines
<u>T4-48</u>	F Zorila	IFIN-HH Magurele	New flexible wound dressing with antimicrobial capabilities using PDMS functionalized with AuBPs-AMPs complexes