

**CMCEE14 - Poster session / Monday, 19 August / 16:30-18:00 / BARTÓK CORRIDOR****Session I. 16:30-17:00**

1	Fabio	Torazzi	ITALY	T1.1	Improved electrodes through robust triple conductive composition for Proton Conductive Solid Oxide
2	Ivan	Kirillov	GERMANY	T1.1	Comprehensive Investigation of LSCF Degradation in Varied Aggressive Atmospheric Conditions for Enhanced SOFC Performance
3	Engy	Zain	GERMANY	T1.1	Investigation of Salt-Material Interaction in Sea Water Electrolysis through Solid Oxide Electrolyzer Utilizing Ni-YSZ Ceramic Materials
4	Hyung-Joon	Bang	SOUTH KOREA	T1.1	A Study on Recirculating Hotbox Design for a 10kW Solid Oxide Electrolysis Cell (SOEC) System
5	Delyana	Manasieva	BULGARIA	T1.5	Is it possible for naphthalimides to be a future organic battery?
6	Jingwen	Sun	CHINA	T1.5	Multiscale Confinement Synthesis of Nitrogen-Rich Molybdenum Carbide for Efficient Hydrogen Evolution Reaction
7	Shujun	Zhang	AUSTRALIA	T1.5	Unlocking mechanocatalysis: exploring nanocrystalline BaTi2O5 in a centrosymmetric phase with anti-directional dipole layers
8	Jin-Ming	Chen	TAIWAN	T1.6	Fe-MIL-101 Metal Organic Framework Enhanced Solid Polymer Electrolytes for High-Performance Solid-State Lithium Metal Batteries
9	Mariya L.	Kalapsazova	BULGARIA	T1.6	Biowaste for electrodes: converting the biomass waste into a sustainable host for sodium-ion storage
10	Dipen	Biswakarma	INDIA	T1.6	Unlocking The Reaction Mechanism of Anode-Protected Aqueous Organic Zinc Ion Battery
11	Ivan	Shepa	SLOVAKIA	T1.6	Shuttle effect suppression in Lithium-Sulfur Batteries by simultaneous use of electrospun Nb2O5 nanofibers and bioderived carrageenan binder
12	Min Ju	Oh	SOUTH KOREA	T1.6	Functionalized Interfacial Cover Design toward Pure Silicon Anode for High Power Density Lithium-Ion Capacitor
13	Melissa	Moos	GERMANY	T2.1	Novel Carbon fiber/PEEK-hybrid yarn based non-oxide ceramic matrix composite
14	Lu	Wang	CHINA	T2.2	Quaternary Rare-Earth Oxide Co-doped ZrO2 as a Promising Thermal Barrier Coating for Gas turbine Engine
15	Hyun-ju	Choi	SOUTH KOREA	T2.3	A Metal-Polymer Self-Lubrication Composite Based on PTFE and its Prototype

**Session II. 17:00-17:30**

1	Fei	Cao	UNITED KINGDOM	T2.3	Correlating Impedance Phase Angle Variations to Nanoparticle Size Changes in Silicon Dioxide Colloids
2	Young-Hoon	Seong	SOUTH KOREA	T2.3	The development status of SiC heating elements in Korea
3	Qiance	Zhang	UNITED KINGDOM	T2.5	High-efficiency fabrication of SiCf/SiC composites by Graded Concentration Polymer Infiltration and Pyrolysis (GC-PIP) method
4	Lijing	Ma	CHINA	T3.1	Fumed Nano-silica Modified PVA-chitosan Composite Hydrogel with Janus Structure for Solar-driven Interfacial Evaporation
5	Kateryna	Nemesh	SLOVAKIA	T3.1	Progressive photocatalytic nanocomposites based on electrospun TiO2 nanofibers modified with AgNPs obtained by green approach
6	Myung-Jin	Jung	SOUTH KOREA	T3.1	Control of Surface Defects in ALD-TiOx Thin Films for an Improved Photoelectrochemical Performance
7	Chun-Rong	Lin	TAIWAN	T3.2	Investigation of the effect of magnetic field on CO2 absorption using LiFeO2 nanoparticles
8	Ren	Zushi	JAPAN	T3.2	Synthesis and morphology control of spherical silica by sustainable reprecipitation method using ultrasound
9	Byungseo	Bae	SOUTH KOREA	T3.2	Complete Combustion of Methane using CeO2-SiO2 Based Catalysts
10	Stefano	Pezzoli	ITALY	T3.3	Refractory ceramics for the aluminium foundries: novel perspectives for greater process and product sustainability
11	Ilknur	Kara	TÜRKIYE	T3.3	Zinc Ion Exchanged Geopolymer Derived from Sodium Geopolymer and Comparison of Their Thermal Behavior
12	Changsu	Woo	SOUTH KOREA	T3.3	Development of nanocomposite material synthesis and fatigue life evaluation method
13	Renáta	Oriňáková	CZECH REPUBLIC	T3.5	Electrochemical Aptasensors for SARS-CoV-2 Spike Protein Detection
14	Navya	Yadav	INDIA	T4.1	Effects of Interfacial Segregation on Solubility and Morphology in Doped ZnO
15	Sergei	Manzhos	JAPAN	T4.1	Computational models of grain structures of titania with nature-like grain distributions

**Session III. 17:30-18:00**

1	YuHyeong	Jeong	SOUTH KOREA	T4.1	Develop of PVB Laminated Glass Model for Head Injury Criterion-based Collision Safety Analysis
2	Parvathi	Vasudevan	UNITED KINGDOM	T4.2	Additive Manufacturing of Advanced Ceramic Filter Structures
3	Satoshi	Kobayashi	JAPAN	T4.3	Improvement in powder injection molding process with addition of cellulose nanofibers
4	Takeshi	Toyama	JAPAN	T4.4	Preparation of zinc oxide/silica composite hollow spherical particles by spray drying
5	Kazumi	Yoshiya	JAPAN	T4.4	Optimization of iron ore grinding method to secure high-grade iron ore as raw material for hydrogen ironmaking
6	Juraj	Szabo	SLOVAKIA	T4.4	Improvement of fracture toughness of B4C-based ceramics reinforced by carbon nanotubes, nanofibres and graphene nanoplatelets
7	Juliano A.	Chaker	BRAZIL	T4.5	Development of a saliva cortisol biosensor with an interdigitated electrode platform with barium titanate nanoparticles
8	Kazuya	Takimoto	JAPAN	T4.5	Laser and optical properties of Nd-doped fluorapatite ceramics with fine microstructure
9	Klára	Hajagos-Nagy	HUNGARY	T4.6	Microstructure and mechanical properties of carbon containing high entropy alloy films
10	Marián	Palcut	SLOVAKIA	T4.6	Oxidation resistance of AlTiSiN/TiSiN medium entropy ceramic coatings
11	Kexin	Chen	JAPAN	T4.7	Bandstructure Modulation and Molecular Adsorption Properties of Zirconia Nanoparticles: A Large-Scale Electronic Structure Study
12	Ines Sara	Moussaoui	HUNGARY	T4.7	Microstructure, hardness and indentation fracture resistance of dual-phase high-entropy ultrahigh temperature ceramics
13	Zbigniew	Peździch	POLAND	T4.7	Ablation resistance of titanium diborate based composites derived from Ti-Si or Ti-Al intermetallic systems
14	Isabel	Huck	GERMANY	T4.8	On the Journey Towards Complex MAX Phase Solid-Solutions