

## Energy Storage Discussions 2023

Oral session 1			
ID	Name of the work	Authors	Institutions
ESD2023_6	Influence of structural and chemical composition of lignocellulosic precursors for porous carbon production useful in Supercapacitors	Ana Karina Cuentas-Gallegos	Centro de Nanociencias y Nanotecnología, UNAM
ESD2023_67	Tuning Prussian Blue Analogs properties for assembling hybrid supercapacitors in aqueous electrolytes	Próspero Acevedo-Peña	CICATA, IPN
Oral session 2			
ID	Name of the work	Authors	Institutions
ESD2023_9	Hybrid Energy Storage: Relevance, Features and Applications	M. G. Reveles-Miranda and D.E. Pacheco-Catalán	Centro de Investigación Científica de Yucatán (CICY)
ESD2023_15	Exploring the Alkali Metal Intercalation Mechanism in $\delta$ -MnO <sub>2</sub> Structure: A First-Principle Study	Christian A. Celaya, Jesús Muñiz, Jonathan Guerrero-Sánchez and Ana Karina Cuentas Gallegos	Centro de Nanociencias y Nanotecnología, UNAM
Oral session 3			
ID	Name of the work	Authors	Institutions
ESD2023_3	Modeling, Simulation and Optimization of a Commercial Lithium-Ion Battery with Charge Cycle Predictions	Camas-Náfate Mónica; Coronado-Mendoza Alberto; Vega-Gómez Carlos; Espinosa-Moreno Francisco	Centro Universitario de Tonalá, Universidad de Guadalajara
ESD2023_24	Advanced spectral analysis of electrical cycling signals for early failure detection in lithium ion batteries	M. Carbonó, J. Gómez and R. Nava	Instituto de Energías Renovables, UNAM
	Energy storage for industry in Mexico	Alejandro Fajer	Quartux
Oral session 4			
ID	Name of the work	Authors	Institutions
ESD2023_44	Direct, Multimodal Visualization of Zinc Metal Plating and Stripping via Transmission X-ray Microscopy	David N. Agyeman-Budu, Yechuan (Leo) Chen, Molleigh B. Preefer and Johanna Nelson Weker	Stanford Synchrotron Radiation Lightsource, SLAC National Accelerator Laboratory
ESD2023_27	Electrospun coaxial carbon nanofibers with high performance as anodes of sodium ion batteries.	L.A. Rodríguez-Guadarrama, I.L. Alonso-Lemus and J. Escorcía-García	CINVESTAV, Unidad Saltillo
Oral session 5			
ID	Name of the work	Authors	Institutions
ESD2023_38	Advances on the evaluation of exfoliated ZnS(en) <sub>x</sub> nanolayers as electrodes in rechargeable lithium-ion batteries	E. Gonzalez, A. Hernandez-Gordillo, Y. Gonzalez, N.A. Garcia and E. Sanchez	Facultad de Ciencias Químicas, UANL
ESD2023_19	Ion transport mechanism of LLZO-PEO composite solid electrolyte and its all-solid-state lithium-sulfur batteries	P.M. Gonzalez Puente, Fei Chen and Yiluo Zhang	Departamento de Química, UAM
Oral session 6			
ID	Name of the work	Authors	Institutions
ESD2023_54	Synchrotron radiation insights into LiNiO <sub>2</sub> and Mn, Co-doped cathodes at different states of charge via TXM and XANES analysis	E. Espinosa-Villatoro, M.B. Preefer, Z. Cui, A. Manthiram and J. Nelson Weker	Stanford Synchrotron Radiation Lightsource, SLAC National Accelerator Laboratory
ESD2023_28	Hierarchical implementation of electrochemical techniques to provide a reliable diagnosis of commercial lithium-ion pouch cells under selected operational conditions.	R. Suarez, G. Ramos and I. Gonzalez	UAM, Consejo Nacional de Humanidades, Ciencia y Tecnología CONAHCYT
ESD2023_62	FFT impedance spectroscopy for real time analysis of phenomena in energy storage devices operando	M.A. San-Pablo-Juárez, A. Arroyo-Balseca, L. Valverde-Serrano and E. Quiroga-González	Instituto de Física, BUAP