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# 1st National Congress of the Mexican Society of Synchrotron Light & 1st International Congress of Synchrotron Light Techniques

## Wednesday 23 June 2021

### Poster Session - Virtual (14:30-16:30)

time	title	presenter
14:30	Sistema de métodos y programas para caracterización de texturas axiales por difracción de luz sincrotrón y electrones	CAMPOS RODRÍGUEZ, Alejandro
14:40	Synchrotron light in the structural studies of human transferrin for its application as a drug transporter in the central nervous system	CAMPOS-ESCAMILLA, Camila
14:50	Mineralogical characterization and uranium radioactivity of recent sediments from the Laguna del Cuervo, Chihuahua	CARAVEO-CASTRO, Carmen del Rocío
15:00	Study of the Chemical, morphological and structural characteristics of Na-preconditioned Si anodes for lithium ion batteries by synchrotron techniques	ESPINOSA-VILLATORO, Erick
15:10	Structural analysis of the partially disorder protein EspK by Small-Angle X-Ray Scattering	SÁNCHEZ-PUIG, Nuria
15:20	Electron density contour maps via Rietveld-MEM analysis using HR-XRD for the polycrystalline ferroelectric BCZT	HERRERA-PÉREZ, Guillermo
15:30	Influence of sunlight and atmospheric pressure on the synthesis of Ca (II), Ba (II) and Sr (II) silica-carbonate biomorphs	PÉREZ-AGUILAR, Cesia
15:40	Monte Carlo simulation of vacancies produced in lead-free piezo-ceramics by X-ray radiation damage	LÓPEZ-LÓPEZ, O.
15:50	CO <sub>2</sub> sensing mechanism of ZnO & ZnO/MWCNT	LOZANO-ROSAS, R.
16:00	Una representación de las secciones de Poincaré para la dinámica de partículas en la estructura magnética de un acelerador usando cuasi invariantes de movimiento aproximados	SÁNCHEZ, E.

# Thursday 24 June 2021

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14:40	Uranium isotopes concentration and transport in the Laguna del Cuervo, Chihuahua, Mexico.	PÉREZ-REYES, Victoria
14:50	Molecular characterization of bacteria to oxidize As(III) for water treatment in rural communities; study case Xichu, Guanajuato. Mexico	RODRÍGUEZ CASTREJÓN, U. E.
15:00	Fine structural disorders in nanostructured TiO <sub>2</sub> films for photovoltaic applications.	ROMERO CONTRERAS, Alfredo
15:10	Development of HAp/TiO <sub>2</sub> Composites for the preparation of Piezoelectric Biomaterials	SÁNCHEZ-HERNÁNDEZ, Ana Karen
15:20	Characterization of As remotion mechanisms in a natural limestone filter	SOSA ISLAS, Antonio Salvador
15:30	Synchrotron-FTIRs studies of microbially-mediated biomineral formation	VALDESPINO, Patricia
15:40	Chemical speciation of lead adsorbed onto volcanic ashes by ICP-OES and XANES	BLIXEN BANG, Bolie
15:50	Distribution and chemical speciation of Pb in agricultural soils near a mine tailing deposit in northwestern México	MORALES PÉREZ, Arturo
16:00	Naica's Giant Crystals: Characterization by synchrotron radiation of the wall-crystal interface	FUENTES-MONTERO, María E.
16:10	Characterization of pellets from lignocellulosic waste for use in the treatment of water contaminated with Metals and Metalloids	ZAVALA SÁNCHEZ, Mayela Janeth