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- P-01:** “Pulsed DC Sputtering enabled thin film solid-state batteries for compact and safe medical devices”, Carla S. Báez-Velázquez, Michael Alvarado-Rigual & Danilo **Barrionuevo**, UPRC
- P-02:** “Integrating multiferroic materials to advance neuromorphic computing architectures”, Brittany Del Valle-González, Sebastián Gómez-Betancourt, Nayomie Gómez-Sánchez & Danilo **Barrionuevo**, UPRC
- P-03:** “Driving brain inspired neuromorphic computing with advanced multiferroic materials”, Arnaldo R. Ortíz-Rivera, Natalia S. Ríos-Rivera & Danilo **Barrionuevo**, UPRC
- P-04:** “Advancing next generation neuromorphic computing through multiferroic material innovation”, Edward Hickey-Figueroa, Amanda L. Reyes-Pagán & Danilo **Barrionuevo**, UPRC
- P-05:** “Competing Coordination Environments as a Design Principles for Magnetism in Protonated Brownmillerite Cobaltites”, Luis A. Luna-Pérez¹, Andrea García-Ramos¹, Juan **Santana**¹, Andrew M. **Rappe**² & Hyeon **Han**³, ¹UPRC, ²Penn, ³MPI-MSP
- P-06:** “A Rolling Liquid Marble Gathers More Particles”, Nathalia Liu-De Restrepo¹, Philip **Laccarino**², Luis A. Delgado-Rodríguez¹, Daeyeon **Lee**² & Vibha **Bansal**¹, ¹UPRC, ²Penn
- P-07:** “Temperature dependent charge transport in the two-dimensional ferroelectric semiconductor β -In₂Se₃”, Carlos D. Torres-Romero¹, Nicholas J. **Pinto**¹, Kyung Min **Yang**² & Deep **Jariwala**², ¹UPRH, ²Penn
- P-08:** “Microfluidic Control of Carbon Sphere Size: CFD and Optimization of 3D-Printed Pinched Flow Fractionators”, Robert Rosario & José O. **Sotero-Esteva**, UPRH
- P-09:** “Utilizing 3D-printed liquid waveguide capillary cells (LWCC) for Microfluidic UV-VIS Analysis”, Daviannie Rivera-Márquez, Kimberly M. Hernández-Ferrer & José O. **Sotero-Esteva**, UPRH
- P-10:** “A Low-Cost, Open-Source Hardware Infrastructure for Autonomous Microfluidic Experimentation”, Kimberly M. Hernández-Ferrer & José O. **Sotero-Esteva**, UPRH
- P-11:** “Syringe Pump Optimization Utilizing Autonomous Experimentation Systems”, Raychan J. Galarza, & José O. **Sotero-Esteva**, UPRH
- P-12:** “Structural Analysis of Carbon Spheres: Impact of Precursor Concentration and Thermal Treatment via Raman Spectroscopy” Emily T. Morales- Arroyo, Anamaris Meléndez & Idalia **Ramos**, UPRH
- P-13:** “Synthesis of Cubosome Nanoparticles and Drug Binding Testing for Drug Delivery”, Eduardo Sánchez¹, Airam Rivera¹, Daeyeon **Lee**², José **Sotero-Esteva**¹ & Rolando **Oyola**¹, ¹UPRH, ²Penn
- P-14:** “Prototype Implementation of an Enhanced Autonomous System for Real-Time Polymer Fabrication and Evaluation”, Myrialisses Ortiz¹, Analaura Díaz¹, Robert Rosario¹, Daviannie Rivera¹, Pavel **Shapturenka**², Idalia **Ramos**¹ & José O. **Sotero-Esteva**¹, ¹UPRH, ²Penn
- P-15:** “Modified Cellulose Matrices with Pillararenes and EDTA for Heavy Metal Capture”, Camila Galeán, Alanys López, Ivan J. **Dmochowski**, Vibha **Bansal** & Ezio **Fasoli**, ¹UPRH, ²Penn, ³UPRC
- P-16:** “Development of a Chromogenic Cellulose Sensor for Aldehydes Quantification”, Alana Castro, Emmanuel Rosa-Delgado, Idalys González, José O. **Sotero-Esteva** & Ezio **Fasoli**, UPRH
- P-17:** “Optimizing Transparency and Stability in Floating Liquid Marbles for Visual pH Sensing”, Luis A. Delgado-Rodríguez¹, Nathalia Liu-De Restrepo¹, Ivan J. **Dmoschowski**², Daeyeon **Lee**², Vibha **Bansal**¹, ¹UPRC, ²Penn
- P-18:** “Room temperature oxidation of Sn nanoparticles fabricated by DC Magnetron Sputtering Physical Vapor Deposition”, Wanda Y. Rivera-Zayas², Cristian Gutiérrez¹, Jheison Lizcano¹, Wilfredo **Otaño**², Danilo **Barrionuevo**², Eric **Stach**³ & Francisco **Bezares**¹, ¹UPRM, ²UPRC, ³Penn
- P-19:** “Environmentally Friendly Microwell Plates”, ¹Paloma E. Cortés-Robles, ¹Alexander Y. Ortíz, ¹Nathalia Liu-De Restrepo, ²Ivan J. **Dmoschowski**, ²Daeyeon **Lee**, ¹Vibha **Bansal**, ¹UPRC, ²Penn
- P-20:** “3D-Printed Syringe Pump for Microfluidic Applications”, Kamillie A. Díaz-Dávila & Rolando **Oyola**, UPRH