

Poster session		November 20th, 11:20 - 13:20	
ID	Name of the work	Authors	Institutions
P1	Synthesis of nanocomposites for application in supercapacitors	A. A. García-Silva ¹ , J. Ramírez-Aparicio ² , J. E. Samaniego-Benítez ³ , J. de la Cruz-Soto ²	1,2 INEEL. 3 CICATA-IPN
P2	Synthesis of Li ₂ FeSiO ₄ /C and its electrochemical performance as cathode in Li-Mg hybrid batteries	O.E. Gutiérrez Garza ¹ , L. L. Garza Tovar ^{1*} , M. Sánchez Domínguez ² , Enrique Quiroga González ³ and E.M Sánchez Cervantes ¹	1 UANL. 2 CIMAV. 3 IFUAP-BUAP
P3	On the nature of interactions that allow CO ₂ and H ₂ storage in (VO) ₃ [M(CN) ₆] ₂ ·nH ₂ O with M = Fe, Co	A. A. Lemus-Santana ¹ , H. Osiry ¹ , N. Torres ¹ , A. Rodríguez ¹ , L. Martínez ² and E. Reguera ^{1*}	1,2 CICATA-IPN
P4	Liquid metal electrode: Numerical and experimental studies	A. Beltrán ¹ , J. Núñez ² and M. Herrera-Ortega ^{1,3}	1 IIM-UNAM. 2 UNAM Morelia. 3 ITM
P5	Development of protocol for the determination of capacity of a Lithium-ion cell, based on the IEC 62660-1 standard	A.C. Peláez ¹ , F. Loyola ² , J. R. Flores ² , M.E. Rincón ¹	1 IER-UNAM. 2 INEEL
P6	Study of the Synergic Effects in LiFePO ₄ /Li ₂ CuO ₂ Cathode Blends for Li Ion Batteries Via Electrochemical and EPR Experiments	C. Juárez Yescas ^{1*} , G. Guzmán ¹ , N. Aguilar Ezeiza ¹ , D. Ramírez Rosales ² , G. Ramos Sánchez ¹ , and I. González ¹	1 UAM-I. 2 IPN
P7	Magnetic and structural characterization in the multiferroic [(Bi) _{1-x} (La Nd Pr) _x] ₂ (O ₇₋₈) ₂ compounds of the Aurivillius family towards their use as ferroelectric capacitors	C. E. Moreno-Crespo ¹ , D. Ramírez-Rosales ¹ , A. Peláez-Barranco ² , Y. González-Abreu ² and F. Calderón-Piñar ² , 3, S. N. Arellano Ahumada ¹ , E. Baca Solís ¹	1 IPN. 2 Universidad de la Habana
P8	Carbon from leather waste for supercapacitors	D.C. Martínez Casillas ¹ , I. Mascorro Gutiérrez ¹ , I.L. Alonso Lemus ² and A.K. Cuentas Gallegos ¹	1 IER-UNAM. 2 CINVESTAV Saltillo
P9	Supercapacitor cells made by using biochar obtained from solar pyrolysis	D. R. Lobato-Peralta ¹ , D.C. Martínez-Casillas, N. Rayón-López ^{1,2} , A. Ayala-Cortés ¹ , C. A. Arancibia-Bulnes ¹ , H. I. Villafán-Vidales ¹ , A.K. Cuentas-Gallegos ^{1*}	1 IER-UNAM. 2 UAEM
P10	Production of chemically activated carbons from ficus benjamina	E.J. Ontiveros Reséndiz ¹ , P. González García ^{2*}	1 UTQ. 2 CIDESI
P11	Silver hydrogen oxide carbonate (Ag ₇ O ₈ HCO ₃) dielectric thin film synthesis for use in capacitors with high energy storage capacity	E. Fernández-Díaz ^{1,4} , T. Mendivil-Reynoso ² , R. Ramírez-Bon ³ S.J. Castillo ¹ and R. Ochoa-Landín ²	1,2 UNISON. 3 CINVESTAV Querétaro. 4 ITH
P12	Pre-conditioning of silicon anodes by sodiation for lithium-ion batteries	E. Espinosa-Villatoro and E. Quiroga-González*	IFUAP-BUAP
P13	Highly doped mesoporous silicon pillars as anode for lithium ion batteries	V. Aca-López ¹ , E. Quiroga-González ^{2*} , E. Gómez-Barojas ¹ and A. Luna-López ¹	1 CIDS-BUAP. 2 IFUAP-BUAP
P14	Technical and economic assessment for integrating energy storage technologies in the Mexican power system	G. A. Zamacona-Ferral, J. De la Cruz-Soto, G. Santamaría-Bonfil	INEEL
P15	Lithium transport on Single Ion polymer electrolytes based on polyborates	G. Guzmán ¹ , H. J. Ávil-Paredesa ¹ , E. Rivera ² , I. González ³	1,2 UAM-I. 3 IIM-UNAM
P16	Zinc Hexacyanoferrate as a promising cathode in K-ion batteries	M. Oliver-Tolentino ¹ , G. Ramos-Sanchez ¹	UAM-I
P17	Synthesis of reduced graphene oxide/TiO ₂ composite to be used as anode in Li-ion batteries	G. Santamaría-Juarez ^{1*} , E. Gómez-Barojas ¹ , E. Quiroga-González ² , E. Sánchez-Mora ² , M. Quintana-Ruiz ³ and J. D. Santamaría Juárez ⁴	1 CIDS-BUAP. 2 IFUAP-BUAP. 3 UASLP. 4 BUAP
P18	A pseudo-continuum model to describe the role of components in a LiFePO ₄ cathode	J. O. Santos-Mendoza ^{1*} , J. Vazquez-Arenas ² , I. González ² , C. O. Castillo-Araiza ¹	1,2 UAM-I

P19	Activated carbon from agave wastes (agave tequilana) for electrodes in supercapacitors	I. K. Rangel Heredia ¹ , L. L. Garza-Tovar ¹ , E. M. Sánchez Cervantes ¹ and L. C. Torres-González ¹	UANL
P20	High Methane Density Storage in Composite Materials	J. A. Galicia-Apolinar ¹ , N. Torres-Figueroa ^{1,2} , A. Lemus-Santana ¹ , E. Juárez-Arellano ³ , E. Reguera ¹	1 CICATA-IPN. 2 CEADEN. 3 UNPA
P21	Carbon obtained from banana peels by microwave-assisted pyrolysis as anode for lithium ion batteries	J. Arce-Hernández ¹ , E. Quiroga-González ^{2*} and J.L. Sosa-Sánchez ²	1 CIDS-BUAP. 2 IFUAP-BUAP
P22	Electrochemical Capacitor Based on Nanostructured MnPO ₄	J. Zuñiga Martínez ^{1,2} , R. Lucio-Porto ^{1,2} M. G. Bautista-Sánchez ^{1,2} , R. Hiracheta-Torres ^{1,2} , I. E. Moreno-Cortez ^{1,2} , L. A. López-Pavón ^{1,2}	1,2 UANL
P23	Towards the theoretical-computational modeling of the reactivity of quinones in glassy carbon electrodes	R. Jaimes, M. Miranda-Hernández	IER-UNAM
P24	Lamellar Co-Metal Organic Framework as electrochemical pseudocapacitors: ligand effect on electrochemical properties	J. Vazquez ¹ , M. Oliver-Tolentino ¹ , E. Reguera ¹ , A. Gúzman ² , I. Padilla-Martinez ³ and P. Acevedo-Peña ¹	1 CICATA-IPN. 2, 3 IPN
P25	Membranes Based on Graphene Oxide: Carbon Paper with controlled porosity	M.O. Concha-Guzmán*, M.E. Rincón	IER-UNAM
P26	Electrochemical study of the effect of the heterometallic substitution of copper in Cu-Prussian Blue derivatives as Li-ion Battery cathode materials	M. Encinas Reyes ¹ , G. Ramos Sánchez ^{2*} , M.A. Oliver Tolentino ¹ , I. González Martínez ¹ .	1,2 UAM-I
P27	Electrochemical performance of a Co-based amorphous alloy as negative electrode for Nickel-Metal hydride (Ni-MH) batteries	M. Vázquez ¹ , J. Henao ² and L. Martínez-Gomez ²	1 UNAM. 2 CIICap-UAEM
P28	Influence of flow rate in the structural, morphological and optical properties of nanostructured cerium oxide thin films	M.F. García Sánchez ¹ , I. Ponce Rosas ¹ , I.C. Romero Ibarra ¹ , J. F. Malagón García ² and G. Santana ²	1 UPIITA-IPN. 2 IIM-UNAM
P29	Synthesis and characterization of Solid State Ion exchanged Cu, Fe and Cu-Fe/Mordenite for direct conversion of Methane to Methanol	M. González M.1, J. Vazquez S. 2 and R. Mojica M.2	1,2 CICATA-IPN
P30	Ethanol decomposition UV assisted catalyst using a by a ZnO/epoxy composite catalyst	M.T. González Tejada ¹ , P. González García ²	1 UTQ. 2 CIDESI
P31	Bifunctional AC-LiFePO ₄ cathode for hybrid asymmetric capacitor	M. Manzano ¹ , J. Vázquez ¹ , I. Martínez ¹ , H.A. Mosqueda ²	1 UAM-I. 2. UT Tula
P32	Spinel NiCoFe as Bifunctional Electrocatalysts for Oxygen Reduction/Evolution Reactions and their use in Zn-air batteries	M. Oliver-Tolentino ¹ , J.Vazquez-Samperio ² , R. de G. Gonzalez-Huerta ¹	1 IPN. 2 CICATA-IPN
P33	Characterization by Electronic Spin Resonance of materials for electrodes in alkaline-ion batteries: towards in-situ characterization	S. N. Arellano Ahumada ¹ , D. Ramírez Rosales ¹ , C. E. Moreno Crespo ¹ , E. Baca Solís ¹ , G. Ramos Sánchez ² and M. A. Oliver Tolentino ¹	1 IPN. 2 UAM-I
P34	Improved Performance of Activated Carbon electrodes for Supercapacitors through the introduction of WO ₃ -x obtained with Solar Energy	N. Rayón-López a,b, M. Miranda-Hernandezb, H. I. Villafán-Vidalesb, C. Menchaca-Camposa, A. K. Cuentas-Gallegos b*	1 CIICap-UAEM. 2 IER-UNAM

P35	Synthesis and characterization of Li ₂ Cu _{0.5} Ni _{0.5} O ₂ -LiNiO ₂ solid solution as cathode of Li-ion batteries	N. Aguilar-Eseiza ¹ , G. Ramos-Sanchez ¹ and I. Gonzalez ¹	UAM-I
P36	Si microwires obtained by chemical etching as anodes for Li ion batteries	O. Pérez-Díaz ¹ , E. Quiroga-González ^{1*} and N. R. Silva-González ¹	IFUAP-BUAP
P37	Synthesis of Na ₂ Ti ₃ -xMnxO ₇ and its performance as anode in sodium ion batteries	P. I. Cortez Pérez ¹ , L. L. Garza Tovar ^{1*} , L.C. Torres-González ¹ , and E.M. Sánchez Cervantes ¹	UANL
P38	Structure and textural properties of microporous carbon nanospheres	P. González García ^{1*}	CIDESI
P39	Comparison of electrical properties between –OH and –Met terminal groups in Poly(ethylene glycol) methacrylate nanocomposites	R. Rodríguez ^{1,2} , J. Cardoso ^{1,*} , J. Vazquez-Arenas ²	1,2 UAM-I
P40	Hydrodynamic design of a redox flow cell: simulation and experimental	R. Cervantes-Alcalá, M. Miranda-Hernández	IER-UNAM
P41	A comparative study of annealing-based nitrogen and nitrogen/sulfur doping of graphene for Li-ion battery electrode applications	M. Mendoza-Tierrafria ¹ , R. Guerrero-Santos ² , S. Fernández-Tavizón ² , G. Ramos-Sánchez ³ , E. de Casas-Ortiz ² , J. J. Ku-Herrera ⁴ , R. M. Jiménez-Barrera ⁴	1 UP Juventino Rosas. 2,4 CIQA. 3 UAM-I
P42	Silver nano-crystals, synthesized with extracted from garlic (<i>Allium Sativum</i>) and onion (<i>Allium cepae</i>) used in solar energy	R. Vázquez-Mora ¹ , 2, Y. Estevez-Martínez ^{*1} , E. Chavira ² , A. Tejeda-Cruz ² , O. Novelo-Peralta ² , J. E. Romero-Ibarra ² , K. E. Reyes-Morales ²	1 ITSAO. 2 IIM-UNAM
P43	Hydrothermal preparation of NaMnPO ₄ and its electrochemical performance as cathode in sodium ion batteries	S.A Ovalle Pérez ¹ , L. L. Garza Tovar ^{1*} , L.C. Torres-González ¹ , E. Quiroga González ² and E.M Sánchez Cervantes ¹	1 UANL. 2 IFUAP-BUAP
P44	NiO nanoclusters as anode material for lithium ion batteries	A. G. Godoy Palominos ¹ , N. A. García Gómez ¹ , L. L. Garza Tovar ¹ , S. M. de la Parra Arciniega ^{1*} , R. M. Jiménez Barrera ² , E. M. Sánchez Cervantes ¹	1 UANL. 2 CIQA
P45	Study of energy storage in the commercial feeders of Mexico City	S. Khan, J. de la Cruz Soto, A. Espinosa Reza, J. L. Silva Fariás	INEEL
P46	Development of a nanocellulose-laden supercapacitor prototype	V. Tejeda-Hernández ¹ , C. F. Castro-Guerrero ^{2*} , M. R. Díaz-Guillén ¹ , A. B. Morales-Cepeda ³ , and J. De la Cruz-Soto ²	1,2 INEEL. 2 ITCM
P47	Synthesis of Lithium-Iron Pyrophosphate-like and its evaluation as a cathode in a Li-ion battery	Y. Y. Rivera-Lugo ¹ , R. M. Félix-Navarro ¹ , J. C. Calva-Yáñez ¹ , C. Silva-Carrillo ¹ , S. Pérez-Sicaio ¹ , A. Zizumbo-López ¹ and E. A. Reynoso-Soto ¹	IT Tijuana
P48	Synthesis and evaluation of Lanthanum Titanate as novel negative electrode material for Ni/Oxide rechargeable batteries	Y. Pacheco ¹ , J. Henao ¹ and L. Martinez-Gomez ¹	UNAM
P49	Characterization of Membranes of Lithiated Multiwall Carbon Nanotubes Embedded in Chitosan-Starch Solid Electrolyte, for their Application as Anode in Li Ion Batteries	Y. Estévez-Martínez ^{1*} , E. Quiroga-González ² , S.M. Durón-Torres ³ , D. Alaníz-Lumbreras ⁴ , V.M. Castaño-Meneses ⁵	1 ITSAO. 2 IFUAP-BUAP. 3,4 UAZ. 5
P50	Comparison of the energy storage mechanism in 1D and 2D carbon nanostructures by step potential electrochemical spectroscopy	J.Ramón Herrera-Garza, M. O. Concha-Guzmán, M. E. Rincón	CINVESTAV Querétaro IER-UNAM