

POSTER SESSION

Poster Session (in Alphabetical Order by discipline)

[Chemistry]

CH-1

Acevedo-Acevedo, Débora* UPR-MAYAGÜEZ; Ocasio-Delgado, Yessenia, UPR-Mayagüez; Cortés-Figueroa, José E., UPR-Mayaguez

A BIPHASIC DISPLACEMENT OF [60]FULLERENE FROM FAC-(DIHAPTO-[60]FULLERENE)(DIHAPTO-1, 10-PHENANTHROLINE) TRICARBONYL MOLYBDENUM (0).

CH-2

Báez-Pagán, Carlos* UPR-RÍO PIEDRAS; Martínez-Ortiz, Yaiza, Biology Department, UPR Río Piedras; Ortiz-Acevedo, Alejandro, Biology Department, UPR Río Piedras; Lasalde-Dominicci, José A., Departments of Biology & Chemistry, UPR Río Piedras

PROBING THE EFFECTS OF MEMBRANE CHOLESTEROL IN THE TORPEDO CALIFORNICA ACETYLCHOLINE RECEPTOR AND THE NOVEL LIPID-EXPOSED MUTATION AC418W IN XENOPUS OOCYTES

CH-3

Caballero, Daniel* UPR-RÍO PIEDRAS, Department of Chemistry; Nieves-Cintrón, Madeline, Biology Department, UPR-Río Piedras; Navedo, Manuel, Biology Department, UPR-Río Piedras; Lasalde-Dominicci, José A., Biology Department, UPR-Río Piedras

FUNCTIONAL CONTRIBUTION OF POSITION L218 TO NEURONAL NICOTINIC ALPHA THREE RECEPTORS SUBTYPES

CH-4

González-González, Ileana* UPR-RÍO PIEDRAS, Center for Nanoscale Materials; Rivera, Jossie Ann, Department of Chemistry, UPR-Río Piedras; Tryk, Donald A., UPR-Río Piedras, Chemistry Department; Cabrera, Carlos R., Chemistry Department, UPR-Río Piedras.

POLYCRYSTALLINE BORON-DOPED DIAMOND FILMS AS SUPPORTS FOR METHANOL OXIDATION ELECTROCATALYSTS

CH-5

González-Nieves, Karilys* UPR-RÍO PIEDRAS; Rivera, Lizmarie, Lugo, Adrián, Chemistry Department, UPR-Río Piedras; González-Méndez, Ricardo, Department of Radiology, UPR-Medical Sciences; Raptis, Raphael G., Department of Chemistry, UPR-Río Piedras

OCTANUCLEAR IRON-PYRAZOLATE CLUSTER AS POSSIBLE MRI CONTRAST AGENT

CH-6

González-Santiago, Miguel A.* UPR-MAYAGÜEZ

ESTUDIO MOLECULAR Y CÁLCULO DE PROPIEDADES TERMODINÁMICAS DE ÁCIDO HIPOFLUOROSO

CH-7

Granel-Ortiz, Laura Benice* UPR-MAYAGÜEZ; Chemistry Department; Ruth Pietri, Chemistry Department, UPR-Mayagüez; Ariel Lewis, Chemistry Department, UPR-Mayagüez; Ruth León, Biochemistry, UPR-Medical Science; Carmen Cadilla, Biochemistry, UPR-Medical Science; Juan López-Garriga, Chemistry Department, UPR-Mayagüez

SPECTROSCOPIC EVIDENCE OF THE ROLES OF THE AMINO ACID RESIDUES ON POSITIONS E7 AND B10 OF HEMOGLOBIN I FROM LUCINA PECTINATA

CH-8

CH-9

Oyola Cintrón, Jessica* UPR-RÍO PIEDRAS, Department of Chemistry; Fuentes, Lymari, Department of Chemistry, UPR-Río Piedras; Fernández, Mónica, Department of Chemistry, UPR-Río Piedras; Quiñones, Edwin, Department of Chemistry, UPR-Río Piedras

STABILITY AND ACCESSIBILITY OF PROTEINS IMMOBILIZED IN A SOL-GEL MATRIZ

CH-10

Rojas-Monroy, Gina* UPR-MAYAGÜEZ, Agricultural, Food Science and Technology; De Jesús, Maritza, Chemistry Department, UPR-Mayagüez; Monroig, Miguel, Horticulture, UPR-Mayagüez; Rodríguez-Flores, Manuel (Retired professor), Chemistry Department, UPR-Mayagüez

CHARACTERIZATION OF GROUND COFFEE AROMA FROM PUERTO RICO USING THE SOLID PHASE MICROEXTRACTION TECHNIQUE (SPME) AND GAS CHROMATOGRAPHY COUPLED TO MASS SPECTROMETRY (GC/MS)

CH-11

Rosario-Canales, Mariem* UPR-RÍO PIEDRAS, Department of Chemistry; Rivera-Sánchez, Maritere, Department of Chemistry, UPR-Río Piedras; Guadalupe, Ana R., Department of Chemistry, UPR-Río Piedras; Fonseca, Luis F., Physics Department, UPR-Río Piedras; Resto, Oscar, Physics Department, UPR-Río Piedras

ELECTROCHEMICAL SYNTHESIS AND PHYSICOCHEMICAL CHARACTERIZATION OF GOLD-COVERED POROUS SILICON μ -WELLS

CH-12

Sánchez-Pomales, Germarie* UPR-RÍO PIEDRAS, Chemistry Department; Morales-Negrón, Yarinel, Chemistry Department, UPR-Río Piedras; Cabrera, Carlos Raúl; Chemistry Department, UPR-Río Piedras

DNA-MEDIATED SELF-ASSEMBLY OF SINGLE-WALLED CARBON NANOTUBES ON GOLD

CH-13

Santiago-Torres, Priscila* UPR-MAYAGÜEZ; Hernández, Jazmín, UPR-Mayaguez; Castro, Miguel, Chemistry Department, UPR-Mayaguez

SYNTHESIS AND CHARACTERIZATION OF PT AND PT-RU NANOPARTICLES FOR FUEL CELL MINIATURIZATION

[Computer Sciences]

CS-1

CS-2

Duarte-Carvajalino, Julio Martín* UPR-MAYAGÜEZ, CISE; Vélez-Reyes, Miguel, INEL/ICOM, UPR-MAYAGÜEZ
OBJECT DETECTION IN HYPERSPECTRAL IMAGERY

[Electronics]

EL-1

Rivera, Angel*UPR-MAYAGÜEZ; Jiménez, Manuel, Electrical and Computer Engineering, UPR Mayagüez
ANALYTICAL MODELS FOR ESTIMATING PARASITICS AND EMI EFFECTS ON POWER ELECTRONICS PCBs

[Engineering]

EN-1

Acaba-Cuevas, Luz* UPR-MAYAGÜEZ, Computer Engineering Department, Software Engineering
AUTOMATED XML SCHEMA FOR SIGNAL-BASED INFORMATION REPRESENTATION IN SENSOR ARRAY PROCESSING SYSTEMS

EN-2

Aceros-Moreno, César A* UPR-MAYAGÜEZ, Electrical Engineering Department
ANALYSIS, DESIGN, AND IMPLEMENTATION OF DISCRETE CHIRP FOURIER TRANSFORM ALGORITHMS

EN-3

Acosta, James* POLYTECHNIC UNIVERSITY OF P.R.
SWITCHED BEAM SMART ANTENNA WITH BEAM - SPACE PROCESSING

EN-4

Agosto-Pérez, Jorge F.* POLYTECHNIC UNIVERSITY OF P.R., Gabriel Avila, Electrical Engineering, Polytechnic University of P.R.
MUTUAL COUPLING IN WIRELESS COMMUNICATION ANTENNA ARRAYS

EN-5

Amador, Antonio* UPR-MAYAGÜEZ; Rodríguez-Solís, Rafael A., Electrical Engineering Department, UPR-Mayagüez
TUNABLE ASYMMETRIC ANNULAR-SLOT ANTENNA WITH FERROELECTRIC MATERIAL

EN-6

Bautista-Rozo, Lola Xiomara* UPR-MAYAGÜEZ, Electrical & Computer Engineering
OPERATOR-BASED DATA PROCESSING FOR HYDROLOGICAL APPLICATIONS

EN-7

Botero, Jorge* UPR-MAYAGÜEZ; Valentín, Milton, Civil Engineering Department, UPR-Mayaguez; Suárez, Marcelo, General Engineering Department, UPR-Mayaguez

TIRE RUBBER: STATE OF THE ART, CURRENTLY SITUATION AND POSSIBLE USES AS COMMODITY IN PUERTO RICO

EN-8

Calderón, Hermes E* UPR-MAYAGÜEZ, Civil Engineering Department, UPR-Mayaguez; O. Marcelo Suárez, General Engineering Department, UPR-Mayaguez

MIXTURE-SPLIT SPLIT PLOT EXPERIMENT IN METAL MATRIX COMPOSITES REINFORCED WITH DIBORIDE PARTICLES

EN-9

Calderón-Arteaga, Christian H.* UPR-MAYAGUEZ, Mechanical Engineering Department; Nazario Ramírez, Industrial Engineering Department; UPR-Mayaguez, Ramón Vásquez, Electrical and Computer Engineering Department; UPR-Mayaguez

ESTIMATION OF SOIL MOISTURE

EN-10

Caraballo-Nadal, Norberto Carlos*UPR-MAYAGÜEZ, Civil Engineering Department; Zapata-López, Raúl E., Civil Engineering Department, UPR-Mayaguez; Pagán-Trinidad, Ismael, Civil Engineering Department, UPR-Mayaguez

DIRECT BUILDING DAMAGE DUE TO FLOOD ACTIONS IN RIVERINE AND COASTAL ZONES IN PUERTO RICO

EN-11

Carrión, José* POLYTECHNIC UNIVERSITY OF PR; Morales, Leandro, Electrical Engineering, Polytechnic University of PR.

GRAPHICAL USER INTERFACE DEVELOPMENT FOR FINITE DIFFERENCE TIME DOMAIN METHOD OF AXIALLY-SYMMETRIC STRUCTURES

EN-12

Chaparro, Javier* UPR-MAYAGÜEZ, Electrical and Computer Engineering Department; Harmsen, Eric, Agricultural and Biosystems Engineering, UPR-Mayaguez.

USE OF A PROGRAMMABLE LOGIC CONTROLLER (PLC) FOR AUTOMATING THE VERTICAL MOVEMENT OF WEATHER STATION SENSORS

EN-13

Charca-Mamani, Samuel* UPR-MAYAGÜEZ, General Engineering Department; Batista, Maryann, General Engineering Department, UPR-Mayaguez; Uwakweh Oswald, D N., UPR-Mayaguez

STUDY OF HYDROGEN PERMEATION IN ARMCO FE AND ULTRA HIGH STRENGTH AF1410 STEEL AND EFFECT OF COLD WORK AND PROMOTERS

EN-14

Cundumi, Orlando* UPR-MAYAGÜEZ, Engineering; Luis Suárez, Engineering, UPR-Mayaguez

SEISMIC RESPONSE REDUCTION USING A VARIABLE DAMPING DEVICE AND SEMI-ACTIVE CONTROL

EN-15

De Jesús-Rosario, Miguel A.* POLYTECHNIC UNIVERSITY OF PR.

ANTENNA ARRAY PATTERN SYNTHESIS WITH PRESCRIBED NULLS: A NON-UNIFORM DFT APPROACH

EN-16

De Jesús-Rosario, Miguel A.* POLYTECHNIC UNIVERSITY OF PR; Rodríguez, Yamil; Soto, Illiamelis, Electrical Engineering, Polytechnic University of PR
ALGORITHMS FOR PARALLEL CYCLIC CONVOLUTION

EN-17

Delgado, Carolina* UPR-MAYAGÜEZ; Sundaram Paul, Mechanical Engineering Department, UPR-Mayaguez
A STUDY OF THE CORROSION RESISTANCE OF GAMMA TITANIUM ALUMINIDE IN RINGER'S SOLUTION, 3.5 WT% NaCl AND SEAWATER

EN-18

Díaz-Figueroa, María* UPR-MAYAGÜEZ, Electrical and Computer Engineering Department
A SOFTWARE TOOL ENVIRONMENT FOR POWER LINE MONITORING

EN-19

Duque-Rojas, Nairobi Bibiana* UPR-MAYAGÜEZ, Mechanical Engineering Department; Rodríguez, Cinthia, Mechanical Engineering Department, UPR-Mayagüez; Quispitupa, Amilcar, Civil Engineering Department, UPR-Mayagüez; Suárez, O. Marcelo, General Engineering Department, UPR-Mayagüez; Shafiq, Basir, General Engineering Department, UPR-Mayagüez
ATOMIC FORCE MICROSCOPY ANALYSIS OF FRACTURED SURFACES IN AF1410 STEEL USING SCANNING PROBE IMAGE PROCESSOR

EN-20

González, Luis* UPR-MAYAGÜEZ; Ali Saffar; Civil Engineering Department, UPR-Mayaguez; Rolando García, Civil Engineering Department, UPR-Mayaguez
MULTI-HAZARD APPLICATION OF CONSEQUENCE BASED ENGINEERING

EN-21

HERNANDEZ-PÉREZ, DAVID* UPR-MAYAGÜEZ, Civil & Environmental Engineering Department
PHYSICAL MODELING OF THE FATE AND TRANSPORT OF EXPLOSIVE CHEMICALS IN 1-D SOIL COLUMNS SUBJECTED TO ADVECTION PROCESSES

EN-22

Lammoglia, Víctor A.* UPR-MAYAGÜEZ; Dávila, John; Civil Engineering and Surveying, UPR-Mayaguez; Ruiz, Miguel; Civil Engineering and Surveying, UPR-Mayaguez
ANALYTICAL MODELS OF CONCRETE-FILLED FIBER-REINFORCED POLYMERIC TUBES

EN-23

Leandro, Morales* POLYTECHNIC UNIVERSITY OF PR; Electrical Engineering
SMART ANTENNA BEAMFORMER IMPLEMENTATION

EN-24

López-Rojas, Héctor Duvan* UPR-MAYAGÜEZ, Civil Engineering Department, Godoy, Luis A., Civil Engineering and Surveying, UPR-Mayaguez
ESTIMACION DE DAÑOS OCASIONADOS POR VIENTOS HURACANADOS SOBRE ESTRUCTURAS EN PUERTO RICO

EN-25

Mattei, Enrico* UPR-MAYAGÜEZ
NON-INVASIVE MATERIAL TYPE DETERMINATION BASED ON MATERIAL CHARACTERISTICS IN FREQUENCY DOMAIN, USING GPR

EN-26

Melgarejo-Pinto, Zenón Humberto* UPR-MAYAGÜEZ, Mechanical Engineering Department; Suárez, O. Marcelo, General Engineering Department, UPR-Mayaguez; Duque, Nairobi, Mechanical Engineering Department, UPR-Mayaguez
FUNCTIONALLY GRADED OF ALUMINUM MATRIX COMPOSITES FOR HIGH WEAR AEROSPACE APPLICATIONS

EN-27

Méndez-Román, Rafael* UPR-MAYAGÜEZ; Chemical Engineering Department; Nelson Cardona-Martínez; Chemical Engineering Department, UPR-Mayaguez
IMPROVED BINARY AND TERNARY NANOSTRUCTURED PHOTOCATALYST FOR GAS PHASE DETOXIFICATION

EN-28

Mieses-Hernández, Lourdes Amelia* UPR-MAYAGÜEZ, Civil Engineering Department; Eduardo Torres; Ricardo R. López, Ali Saffar, José A. Martínez-Cruzado, Civil Engineering Department, UPR-Mayaguez
SEISMIC RESISTANCE OF REINFORCED CONCRETE RESIDENTIAL BUILDINGS IN PUERTO RICO

EN-29

Morales, Fernández* UPR-MAYAGÜEZ, Electrical Engineering Department; Trabal, Jorge, Electrical Engineering Department, Univ. of Massachusetts, Amherst; Sekelsky, Stephen, Telephonics, New York
ICE WATER CONTENT AND REFLECTIVITY RETRIEVAL FROM CIRRUS CLOUDS USING MILLIMETER-WAVE RADAR AND IN-SITU ICE CRYSTAL AIRBORNE DATA

EN-30

Obregón-Quiñones, Luis Guillermo* UPR-MAYAGÜEZ, Chemical Engineering Department; Velázquez-Figueroa, Carlos, Chemical Engineering Department, UPR-Mayaguez
DETERMINATION OF THE MEAN GRAY VALUE DETECTION LIMIT OF A VISION SYSTEM FOR THE PREDICTION OF CONCENTRATIONS OF POWDERS

EN-31

Padilla-Luciano, Yeira* UPR-MAYAGÜEZ; Moses N. Bogere, Chemical Engineering Department, UPR-Mayaguez; Kimberly Ogden, Chemical Engineering, University of Arizona
FILTRATION AND BIOTREATMENT SCHEME TO RECYCLE CMP WASTE

EN-32

Picón, Ana* UPR-MAYAGÜEZ, Computer Engineering Department; Vásquez, Ramón; Electrical and Computer Engineering, UPR-Mayaguez

AN ALGORITHM TO ESTIMATE CLOUD TOP HEIGHTS OVER THE CARIBBEAN

EN-33

Quispitupa-Yupa, Amilcar*UPR-MAYAGÜEZ, General Engineering Department; Basir Shafiq; General Engineering Department; O. Marcelo Suárez; General Engineering Department, UPR-Mayagüez

FATIGUE ANALYSIS OF AF1410 STEEL

EN-34

Quispitupa-Yupa, Amilcar* UPR-MAYAGÜEZ, General Engineering Department; Basir Shafiq; General Engineering Department; Frederick Just, Mechanical Engineering Department; Miguel A. Banos, Mechanical Engineering Department, UPR-Mayaguez

FATIGUE EVALUATION OF SANDWICH COMPOSITES MONITORED USING ACOUSTIC EMISSION TECHNIQUE

EN-35

Ramírez, Ana* UPR-MAYAGÜEZ, Electrical Engineering Department

ON IMPLEMENTING TIME-FREQUENCY REPRESENTATIONS ON HARDWARE COMPUTATIONAL STRUCTURES

EN-36

Realpe, Alvaro* UPR-MAYAGÜEZ; Velázquez, Carlos, Chemical Engineering Department, UPR-Mayaguez

IMAGE PROCESSING AND ANALYSIS FOR DETERMINING PARTICLE SHAPE AND SIZE OF PHARMACEUTICAL POWDER

EN-37

Rivera, Iván* UPR-MAYAGÜEZ

TIME-FREQUENCY BASED OPERATORS FOR POWER SYSTEM QUALITY ASSESSMENT

EN-38

Rivera-Pacheco, Joshel Omar* UPR-MAYAGÜEZ, Chemical Engineering Department; Velázquez, Carlos; Chemical Engineering Department, UPR-Mayagüez

OPTIMIZATION OF A FLUID BED DRYER USING A PREDICTIVE CONTROLLER: SIMULATION OF THE SYSTEM PROCESS

EN-39

Rodríguez-García, Luis A.* UPR-MAYAGÜEZ

AXIAL LOAD CAPACITY OF DRILLED SHAFTS SOCKETED IN ROCK

EN-40

Ruiz-Caturelli, Miguel E.* UPR-MAYAGÜEZ; Pando, Miguel A., Civil Engineering Department, UPR-Mayagüez

RAINFALL-INDUCED LANDSLIDES IN PUERTO RICO: AN OVERVIEW

EN-41

Sánchez-Nuñez, Jesús* POLYTECHNIC UNIVERSITY OF PR, Electrical Engineering; De Jesús-Rosario, Miguel; Electrical Engineering, Polytechnic University of PR
RADIATION PATTERN FROM MICROWAVE REFLECTORS WITH RANDOM SURFACE ERRORS

EN-42

Santiago, Atzel S.* UPR-MAYAGÜEZ, CPES; Niño, Carlos E.; Electrical Engineering Department, UPR-Mayagüez
ANALYSIS AND CONTROL OF UNIFIED POWER FLOW CONTROLLER

EN-43

Serrano, Luis A* UPR-MAYAGÜEZ, Civil & Agricultural Departments
AN INVENTORY OF ABOVE GROUND STORAGE TANKS IN PUERTO RICO

EN-44

Serrano, María* UPR-MAYAGÜEZ, Civil Engineering Department; Padilla, Ingrid, Civil, UPR-Mayaguez
DESIGN OF CROSS-WELL RADAR ANTENNAS ARRAY TO DETECT AND MONITOR TCE TRANSPORT IN SOILS

EN-45

Sosa, Eduardo Manuel* UPR-MAYAGÜEZ, Civil Engineering and Surveying; Godoy, Luis, Civil Engineering and Surveying, UPR-Mayagüez
NON-LINEAR DYNAMICS OF ABOVE-GROUND THIN-WALLED TANKS UNDER FLUCTUATING PRESSURES

EN-46

Torres, Maritza* UPR-MAYAGÜEZ, Electrical Engineering Department
NON-LINEARITY OF SOIL DIELECTRIC CONSTANT AS A FUNCTION OF RADAR FREQUENCY AND SOIL MOISTURE CONTENT

EN-47

Vicuña-Galindo, Eder* UPR-MAYAGÜEZ, Chemical Engineering Department; Briano, Julio, Chemical Engineering Department, UPR-Mayaguez
FAST GROWTH OF GOLD NANOPARTICLES

EN-48

Villamizar-Morales, Jorge* UPR-MAYAGÜEZ, Electrical and Computer Engineering Department
A COMPUTATIONAL SIGNAL ALGEBRA FRAMEWORK FOR IMAGE INTERFEROMETRY PROCESSING APPLICATIONS

[Environmental Sciences]

ES-1

Angeles, Moisés* UPR-MAYAGÜEZ, Mechanical Engineering; González, Jorge; Mechanical Engineering, UPR-Mayaguez
ASSESSMENT OF PCM RESULTS FOR PREDICTIONS OF CLIMATE CHANGES IN THE CARIBBEAN

ES-2

Barraza, Rogelinda* UPR-MAYAGÜEZ, Biology Department; Massol, Arturo, UPR-Mayaguez
BIODEGRADABILITY OF BIODIESEL FROM AN INDUSTRIAL IMPACTED SANDY SOIL

ES-3

Flores-Burgos, Keila Y.* UPR-MAYAGÜEZ; Ríos-Velázquez, Carlos, Biology Department, UPR-Mayagüez
CHARACTERIZATION OF ANOXYPHOTOTROPH PURPLE NON SULFUR BACTERIA FROM WATER RESERVOIRS OF PUERTO RICO

ES-4

Gaztambide-Alameda, Idarnis* UPR-MAYAGÜEZ, Biology; Maldonado, Sandra, Biology Department, UPR-Mayagüez; Alameda, Myrna, Surveying Department, UPR-Mayagüez; Bosques, Angel, Horticultural Department, Experimental Station, Isabela
INCIDENCIA DE COLLETOTRICHUM GLOESPORÍOIDES ASOCIADA A UNA SIEMBRA COMERCIAL DE GANDUL [CAJANUS CAJAN (L.) MILLSP.] EN LA SUBESTACIÓN EXPERIMENTAL DE ISABELA, PUERTO RICO

ES-5

López, Marisel* UPR-MAYAGÜEZ; Padilla, Ingrid, Civil Engineering, UPR-Mayagüez; Santiago, Ivonne, Civil Engineering, UPR-Mayagüez
ASSESSMENT OF POTENTIAL ODOR PROBLEMS ON MCCOOK RESERVOIR, CHICAGO, IL

ES-6

Malavé-Orengo, Josué* UPR-MAYAGÜEZ; Eneida C. Villanueva-Feliciano, Biology Department, UPR-Mayaguez; Juan B. Rodríguez, Biology Department, UPR-Mayaguez; Yaralid Sotomayor-Castro, Biology Department, UPR-Mayaguez
ISOLATION AND CHARACTERIZATION OF BIOLUMINESCENT BACTERIA FROM MARINE ENVIRONMENTS OF PUERTO RICO FOR THE DETERMINATION OF THEIR POTENTIAL USE AS BIOSENSORS

ES-7

Prieto-Castellanos, Marcel Giovanni* UPR-MAYAGÜEZ, Civil Engineering Department; Harmsen, Eric, Agricultural and Biosystems Engineering, UPR-Mayaguez
A REVIEW OF SOME INTEGRATED HYDROLOGIC MODELS

ES-8

Ramírez Builes, Víctor Hugo* UPR-MAYAGÜEZ, Surveying and Soils; Harmsen, Eric, Agricultural and Biosystems Engineering, UPR-Mayaguez
MEASURING THE ENERGY BALANCE OF A SUGAR CANE (SACHARUM OFFICINARUM) PLOT IN SOUTHWEST PUERTO RICO

ES-9

Rivera, Michelle* UPR-MAYAGÜEZ, Biology Department; Ríos-Velázquez, Carlos, Biology Department, UPR-Mayaguez
ACCESING THE CULTIVABLE AND UNCULTIVABLE SOIL MICROBIOTA FOR NOVEL ANTIMICROBIAL AGENTS BY FUNCTIONAL GENOMIC APPROACHES

ES-10

Tarafa, Pedro Javier* UPR-MAYAGÜEZ, Engineering/ Environmental Engineering; Torres, Alexander, Civil Engineering, UPR-Mayagüez; Vargas, Víctor, Civil Engineering, UPR-Mayagüez

TRANSPORT OF LANDMINE-DERIVED CHEMICALS IN DIFFERENT SOILS UNDER VARIABLE ENVIRONMENTAL CONDITIONS

ES-11

Torres, Alexander* UPR-MAYAGÜEZ, Civil and Environmental Engineering, UPR-Mayaguez
PHYSICAL MODELING OF EXPLOSIVE CHEMICALS DIFFUSION IN SOILS UNDER VARIABLE ENVIRONMENTAL CONDITIONS

[Life Science]

LS-1

Abreu, Olga* UPR-MAYAGÜEZ, Marine Science Department

SIZE FREQUENCY DISTRIBUTION IN A POPULATION OF *ISOGNOMON ALATUS* FROM LA PARGUERA, PUERTO RICO

LS-2

Burgos Muñoz, Ricardo* UPR-MAYAGÜEZ, Biology Department; Ríos-Velázquez, Carlos; Biology Department, UPR-Mayagüez

ISOLATION OF TOXIC COMPONENTS SPECIFIC PEPTIDES USING T7 PHAGE DISPLAY TECHNOLOGY

LS-3

Colón, Yvonne* UPR-MAYAGÜEZ; Aponte, Nilda E., Marine Science Department, UPR-Mayagüez; Juan M. López Bautista, Department of Biological Sciences, The University of Alabama, Tuscaloosa

MOLECULAR AND MORPHOLOGICAL CHARACTERIZATION OF SPECIES OF THE TRIBE LAURENCIEAE (RHODOMELACEAE, RHODOPHYTA) FROM PUERTO RICO: A PRELIMINARY INVESTIGATION

LS-4

Díaz-Pérez, Luzed* UPR-RÍO PIEDRAS, Biology Department; Navedo Manuel, Biology Department, UPR-Río Piedras; Lasalde-Dominicci, José A., Biology Department, UPR-Río Piedras; Rojas, Legier, Department of Physiology, Universidad Central del Caribe, PR; Maselli, Ricardo A., Neuroscience, University of California, Davis, CA 95616; Staub, J., Department of Neurology and Neuroscience, University of Minnesota, Minneapolis; Schott, Kelly, Department of Neurology and Neuroscience, University of Minnesota, Minneapolis

DISTINCT ACTIONS OF ACETYLCHOLINE RECEPTOR MUTATIONS IN SLOW-CHANNEL SYNDROME IDENTIFY AN M1 DOMAIN ALLOSTERIC HINGE

LS-5

Estrada, Yashira* UPR-MAYAGÜEZ, Marine Sciences Department; Alvarez, Nadya, Biology Department, UPR-Mayagüez; Torres, Melissa, Microbiology, UPR-Mayagüez

AQUATIC HYPHOMYCETES ASSOCIATED TO FOAM, WATER, AND SUBMERGED LEAF LITTER IN AN URBAN SUBTROPICAL STREAM

LS-6

Lozada-Troche, Chad* UPR-MAYAGÜEZ; Ballantine, David L.; Marine Sciences Department, UPR-Mayagüez

MOLECULAR SYSTEMATICS OF TROPICAL ALGAE BELONGING TO RHODYMENIALES (RHODOPHYTA) REPORTED FROM PUERTO RICO

LS-7

Maldonado, Yaritza* UPR-MAYAGÜEZ, Marine Sciences Department; Parrilla, Deborah, Marine Sciences Department, UPR-Humacao

MODELO SISTEMODINÁMICO DEL PRESUPUESTO DE CARBONATOS EN EL ARRECIFE DE CORAL

LS-8

Rivera, Elsie* UPR-RÍO PIEDRAS, Biology Department; T.M. Aide; W.O. McMillan, Biology Department, UPR-Río Piedras

PHYLOGEOGRAPHIC PATTERNS OF CARIBBEAN WETLAND PLANT SPECIES

LS-9

Rivera-Ramírez, Evasomary* UPR-RÍO PIEDRAS, Natural Sciences, Biology Department; Martínez, Daviana, Biology Department, UPR-Río Piedras; González, Carlos, Biology Department, UPR-Río Piedras

AN IN VITRO SYSTEM USING HELA CYTOPLASMIC EXTRACTS TO STUDY ADENOSINE/URIDINE-RICH ELEMENT-MEDIATED REGULATION OF THE VEGF TRANSCRIPT

LS-10

Rojas Durán, María F.* UPR-MAYAGÜEZ; Ríos-Velázquez, Carlos, Biology Department; UPR-Mayaguez; Vázquez-Acevedo, Rebeca; Harvard Medical School; Figueroa-Montiel, Johangel; Industrial Biotechnology; Reyes-Robles, Tamara, Industrial Biotechnology

MOLECULAR CHARACTERIZATION OF RHODOBACTER SPHAEROIDES BACTERIOPHAGES ISOLATED FROM THE SOUTHWESTERN REGION OF PUERTO RICO

LS-11

Toledo-Hernández, Carlos* UPR-RÍO PIEDRAS, Biology Department; Bayman, Paul; Biology Department, UPR-Río Piedras; Sabat, Alberto, Biology Department, UPR-Río Piedras

COMPARING CLINICAL ASPERGILLOSIS WITH SEA FAN ASPERGILLOSIS: ARE THERE CORALATION?

[Mathematics]

MA-1

Heras, Alfonso E.* UPR-RÍO PIEDRAS, Mathematics Department; Francis Castro, Mathematics and Computer Science, UPR-Río Piedras

COTA PARA LA DIVISIBILIDAD DEL NÚMERO DE SOLUCIONES DE UNA ECUACION DIAGONAL

MA-2

ORTÍZ, JORGE* UPR-RÍO PIEDRAS, Mathematics Department

SOME NEW THREE-VALUE CROSSCORRELATION FUNCTION FOR BINARY m-SEQUENCES

[Physics]

PH-1

Basu, Sarmistha* UPR-RÍO PIEDRAS, Chemical Physics; Aliev, Fouad, Physics Department, UPR-Río Piedras

PHOTON CORRELATION SPECTROSCOPY OF NANOCONFINED LIQUID CRYSTAL

PH-2

Biaggi-Labiosa, Azlin M.* UPR-RÍO PIEDRAS, Physics Department; Fonseca, L.F., Physics Department, UPR-Río Piedras; Resto, O., Physics Department, UPR-Río Piedras; Morell, G., Physics Department, UPR-Río Piedras; Weisz, S.Z., Physics Department, UPR-Río Piedras

CATHODOLUMINESCENCE STUDIES OF NANOCRYSTALLINE SILICON FILMS AND ITS DEPENDENCE ON THE IN-SITU INDUCED CHANGES OF THE SURFACE PASSIVATION

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