POSTER SESION I
TUESDAY 18:30 p.m to 21:00 pm
LOCATION: Centro Social, Cívico y Cultural, Riviera de Ensenada

ID	SIMPOSYUM	TITLE	PRESENTER
107	ALD	OPTICAL CHARACTERIZATION OF AZO/SIO2 THIN FILMS GROWTH BY ALD	Juan Jazziel Favela Lopez
187	ALD	Investigating Cubic and Hexagonal GaN Crystal Phases on Diverse Substrates at Low Temperature via Atomic Layer Deposition (ALD)	Iván Alejandro Jasso Granja
259	ALD	SYNTHESIS AND CHARACTERIZATION BY PHOTOLUMINESCENCE OF THE ZNO: NI SEMICONDUCTOR OBTAINED BY THE ALD TECHNIQUE	YAZMIN PALAFOX
391	ALD	EROSION–CORROSION WEAR OF (TiAlZrTaNb)Nx HIGH ENTROPY NITRIDE THIN FILMS GROWN ON AISI 4343 STEEL	Julian David Vargas Buenaventura
153	BIO	BIOHYDROGELS WITH HYDROXYAPATITE-WOLLASTONITE FOR POSSIBLE APPLICATIONS IN TISSUE ENGINEERING	Irela Santos Sauceda
355	BIO	Characterization and Application of Composite Materials Using Soursop (Annona muricata)	VICTOR ALFREDO NOLASCO ARIZMENDI
221	BIO	RECYCLED PET NANOFIBERS DECORATED WITH WO3 BY ELECTROSPINNING TECHNIQUE	Aime Margarita Gutierrez Peralta; Claudia Elena Pérez García
65	BIO	Influence of purification methods on the extraction of nanocrystals from bio-hydroxyapatite under consideration of the coalescence phenomenon	Dorian Fernanda Canon Davila

101	BIO	Synthesis and characterization of chitosan films reinforced with silver dendrites.	Andrea Amareli Rangel Naranjo
109	BIO	CANNABIDIOL ENCAPSULATION IN LIPOSOMES	Erika Fabiola Hernández Elizarrarás
133	BIO	Chemical composition and mechanical properties of test of sea urchin Echinometra vanbrunti: materials with potential for biomimetic applications.	Amir Maldonado Arce
291	BIO	Impact of the formulation method of poloxamer-based micellar systems on the incorporation of lipophilic drugs	Daniela Fernanda Rodriguez Chavez
55	CHM	A DIFFERENTIAL THERMAL LENS SPECTROMETRY METHOD FOR TRACE DETECTION	Lucio Rodrigo Vega Zuleta
75	CHM	Towards Self-healing Coating Based Polymeric Nanocomposite for Surface Protection	Martin Bladimir Cocom Dzul
105	CHM	STUDY OF THE MORPHOLOGY, THERMAL AND OPTICAL PROPERTIES OF N-TYPE POROUS SILICON SAMPLES FABRICATED USING SHORT ELECTROCHEMICAL ETCHING TIMES.	Samuel Alexis Salazar Flores
111	CHM	Simultaneous measurement of thermal conductivity and diffusivity of good thermal conductors using laser spot lock-in thermography.	Alejandro Borges
249	CHM	Analysis of piezoresponse force microscopy signals obtained during force-distance curves	Eduardo Murillo Bracamontes

289	CHM	MICROFABRICATION OF A PHOTO-SWITCH UTILIZING REDUCED GRAPHENE OXIDE (RGO) DECORATED WITH NICKEL (NI) NANOPARTICLES AS AN ACTIVE MATERIAL FOR OPTICAL COMMUNICATIONS	Pablo Córdova Morales
25	LP	EFFECT OF SILICA COATING ON THE STRUCTURAL AND LUMINESCENT PROPERTIES OF CSVO3	Karen Stephania Álvarez Reyes
37	LP	LIGAND-SENSITIZED FLUORESCENCE OF EU(III) AND TB(III) USING AROMATIC CARBOXYLIC ACIDS)	Raúl Erick Guzmán Silva
121	LP	EFFECTS OF EUROPIUM CONTENT ON STRUCTURAL, AND LUMINESCENCE, CHEMICAL PROPERTIES OF YPO4 POWDERS OBTAIN BY HYDROTHERMAL METHOD	María del Rosario González García
103	LP	SYNTHESIS AND LUMINESCENT PROPERTIES OF ZNO:ER3+	Ricardo Valle Ramirez
223	LP	Calcium molybdate impurified by Eu3+ for gas sensing	Angélica Gutiérrez Franco
117	LP	STUDIES ON THE PHOTOLUMINESCENCE OF LUTETIUM OXIDE AEROGELS DOPED WITH EU3+	Alan Daniel Alcantar Mendoza
239	LP	SYNTHESIS AND CHARACTERIZATION OF Er3+ DOPED 10Al2O3-60Li2O-30B2O3 INVERTED GLASSES	Victor Vargas Marinero
245	LP	Synthesis and characterization of carbon quantum dots from cucumber peel	Josue Rivera Aguilera

271	LP	LUMINESCENCE PROPERTIES OF CORDIERITE RED-EMITTING PHOSPHOR PREPARED BY COMBUSTION SYNTHESIS FOR APPLICATIONS IN WHITE-LIGHT ILLUMINATION LEDS	Alexei Miridonov
319	LP	Photoluminescence properties of Nd3+ activated novel CdO-ZnO-V2O5-B2O3 glasses for NIR laser applications	A.N. Meza-Rocha
337	LP	Properties study of TiO2 nanoparticle immobilized in a porous silicon template	Angel Adalberto Durán Ledezma
327	LP	CaWO4:Eu(III) based phosphors, characteristics and novel applications	Salvador Carmona Téllez
123	LP	SYNTHESIS AND PHOTOCATALYTIC EVALUATION OF ELECTROSPUN TIO2 NANOFIBERS DOPED WITH EUROPIUM FOR THE DEGRADATION OF ORGANIC POLLUTANTS.	Andrea Gonzalez Amezcua
235	MEM	DESIGN AND FABRICATION OF ELECTRODES WITH FRACTAL GEOMETRY FOR A MoO3 GAS SENSOR	Leonardo Sebastian Sanchez Fernandez
95	MEM	A RAPID AND SIMPLE MICROWAVE-ASSISTED SYNTHESIS MoO3 FOR THE POTENTIAL DEVELOPMENT OF 2D SEMICONDUCTOR APPLICATIONS	Cecilio Santos Hernández
265	MEM	EFFECT OF DENSITY OF STATES IN ELECTRICAL SIMULATION OF AMORPHOUS INDIUM-GALLIUM-ZINC-OXIDE THIN FILM TRANSISTOR	Arturo Torres-Sanchez
131	MEM	EFFECT OF THE pH ON THE SYNTHESIS OF Ni(OH)2 THROUGH THE HYDROTHERMAL METHOD.	Flor Cecilia Sánchez Vargas
317	MEM	STUDY OF IGZO-BASED RESISTORS AS SENSING DEVICES	Isai S Hernandez-Luna

295	MEM	COMPLEMENTARY INVERTER WITH N-TYPE IGZO AND P-TYPE SNO THIN FILM TRANSISTORS DEPOSITED BOTH BY SPUTTERING RF	Isai S Hernandez Luna
309	MMM	STUDY OF THE INFLUENCE OF CARBON DOTS CONCENTRATION ON THE HETEROSTRUCTURE OF CDS/TIO2 ON THEIR PHOTOCATALYTIC ACTIVITY IN THE DEGRADATION OF ORGANIC DYES.	LIZBETH ALEJANDRA RAMIREZ PEREZ
69	NS	LITHIUM/SODIUM EFFECTS ON THE STRUCTURAL AND ELECTRONIC PROPERTIES OF TITE2 MONOLAYERS FOR BATTERIES	Jaime Eugenio Antonio Pallares
43	NS	SELF-ORGANIZED GOLD NANOPARTICLES ON SIO2 SURFACE NANOPATTERNS INDUCED BY MEV ION IMPLANTATION	Cristian Felipe Cruz García
373	NS	SERS PLATFORMS COUPLED TO PORTABLE SEPARATION MECHANISMS FOR THE DETERMINATION OF PESTICIDES	Monserrat Ochoa Elias
335	NS	EFFECT OF NANOTUBULAR MORPHOLOGY AND SILVER DOPING ON THE CHARGE TRANSFER RESISTANCE OF A TiO2 NANOTUBE NANOSENSOR APPLIED IN ASCORBIC ACID DETECTION	Zaira Mora Mora
71	NS	ADSORPTION OF ALKALI, ALKALINE-EARTH AND TRANSITION METALS ON ZR2C STRUCTURE	Jaime Eugenio Antonio Pallares
205	NS	ROOM TEMPERATURE STRONG POLARIZED EMISSION IN SELF-ASSEMBLED GAAS NANOWIRES	Elihu Hazel Sánchez Martínez
93	NS	CVD REDUCED GRAPHENE OXIDE: ELECTROCHEMICAL PLATFORM FOR ANALYTE SPECIFIC DETECTION	Gabriela Leticia Araujo Bernal

17	NS	ANTIOXIDANT AND ANTIFUNGAL EFFECT OF NANOPARTICLES FUNCTIONALIZED WITH ORGANIC EXTRACTS.	Jocelyn Arleth Lopez Martinez
161	NS	FAST ADSORPTION OF COPPER IONS USING MESOPOROUS SILICA FUNCTIONALIZED WITH THIOL AND AMINO GROUPS	Jaret Wendolyn Varela Pérez
167	NS	SYNTHESIS OF DOUBLE-WALLED CARBON NANOTUBES BY THE PEADSA METHOD	José Luis Jiménez Pérez
159	NS	Ion exchange synthesis of NiY zeolite. Diffuse reflectance spectroscopy (DRS) and inductive coupling plasma (ICP) temporal analysis	Andrés Josué Reyes Solis
163	NS	PAIR DISTRIBUTION FUNCTION ANALYSIS FOR PT-PD-CO ATOMIC MOBILITY IN NANOPARTICLES	Guillermo HERNANDEZ
175	NS	PREPARATION OF NEW CONTROLLED RELEASE SYSTEMS FOR METAL NANOBIOHERBICIDES	Josefina Aguila López
169	NS	MWCNT DECORATED WITH CS2 FOR ENERGY STORAGE SYSTEMS, SYNTHESIZED BY THE PEADSA METHOD	José Luis Jiménez Pérez
173	NS	PREPARATION AND CHARACTERIZATION OF NEW MULTIFUNCTIONAL TEXTILES CONTAINING TIO2 NANOFIBERS	Josefina Aguila López
287	NS	HETEROGENEOUS PHOTOCATALYSIS OF TIO2 NANOSTRUCTURES IMMOBILIZED ON GLASS SUBSTRATES FOR THE DECOLORIZATION AND DEGRADATION OF TEXTILE DYES	Josefina Aguila López; Oscar Secundino Sánchez
211	NS	Optimization of Conditions for Controlling the Size of Iron Nanoparticles through Ultrasonic Cavitation in Water	Jorge Aguilar Fabela

217	NS	STRUCTURAL PROPERTIES OF HYDROXYAPATITE AND REDUCED GRAPHENE OXIDE COMPOSITES TO ENHANCE ELECTROCHEMICAL BIOSENSOR PERFORMANCE	José Javier Ruíz Osorio
273	NS	SYNTHESIS OF IRON AND TITANIUM NANOPARTICLES BY THE CAVITATION METHOD	Hugo Alejandro Hinojosa Novales
387	NS	STUDY OF MBE GROWTH ON HIGH INDEX GaAs (811) SURFACES	Mario Alberto Zambrano Serrano
279	NS	Molecular beam epitaxial growth and properties of InAs quantum dots in asymmetric (Al)GaAs matrices.	José Pablo Olvera Enríquez
297	NS	Effect of the metal M (M: Au, AuAg, AuCu, Ag and Cu) in CeO2 catalysts, effective in the reduction of toxic 4-NP and MO	Carlos Eduardo Niño González
23	PV	THE ASYMMETRIC SHAPE IN PHOTOEMISSION SPECTRA: THE EXPERIMENTAL POINT OF VIEW	Dulce-Maria Guzman-Bucio
29	PV	Keeping a 20-year-old XPS equipment providing good data	Joaquin Gerardo Raboño Borbolla
389	PV	Study of the effect of Nitrogen flow on the structure, chemical composition and plasma generated in the synthesis of TiAlTaNbZrN coatings using the HiPIMS system	Sara Mendoza Castañeda
53	PV	OPTICAL AND ELECTRICAL BEHAVIOR OF THIN ZnO:Al FILMS WHEN CONFRONTING OTHER TRANSPARENT CONDUCTING OXIDES	Pablo Agustín Calderón Franco

313	REN	Effect of WS2 Monolayer as complementary ETL in a FAPbI3-based Heterostructure	Carolina Janani Diliegros Godines
203	REN	Polymers Design for Thermal Management in Solar Panels.	Alex delice Wendji Nkouonga
385	REN	Influence of grown conditions on the synthesis of Vanadium Oxide thin films by Ultrasonic Spray Pyrolysis	Mario Fidel García Sánchez
367	REN	Enhancing Energy Efficiency through Advanced Polystyrene-Based Waterproofing Agents	Guillermo Andrés Pintos Díaz
261	REN	PHYSICAL PROPERTIES OF CdS ULTRA-THIN FILMS INFLUENCED BY ON-OFF AND THERMOSTATIC CHEMICAL BATH DEPOSITION TECHNIQUE FOR SOLAR CELLS APPLICATIONS	JOSÉ MANUEL FLORES MÁRQUEZ
141	REN	INFLUENCE ON DEPOSITION CYCLES OF AG-DOPED ZNO THIN FILMS PREPARED BY THE SILAR METHOD AND THEIR ANALYSIS IN PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE.	Víctor Hugo Martínez-Landeros
353	REN	Synthesis and electric characterization of the thermoelectric materials Bi0.5Sb1.5Te3 and Bi1.5Sb0.5Te3 alloys	Araceli Flores Conde
41	REN	Impact of Metallic Contact Selection on the Efficiency of Sb2S3/CdS Solar Cells	Leticia Treviño Yarce
51	REN	EFFECT OF PH ON THE STRUCTURAL, OPTICAL AND MORPHOLOGICAL PROPERTIES OF COPPER SELENIDE THIN FILMS DEPOSITED BY CHEMICAL BATH DEPOSITION	Francisco Javier Willars Rodríguez
361	REN	LASER SCRIBING OF Sb2Se3 THIN FILMS FOR PHOTOVOLTAIC APPLICATIONS	Irving Ramírez Aguirre

165	REN	GREEN SYNHTESIS OF COBALT-BASED METAL-ORGANIC FRAMEWORK AND ITS POSSIBLE USE AS SUPERCAPACITOR ELECTRODE	Melina Sánchez Leonel
193	REN	INFLUENCE OF THE GLASS AND POLYMERIC NANOSTRUCTURED MATERIAL SUBSTRATE ON ZNO THIN FILMS DEPOSITED BY THE SILAR METHOD AND THEIR ANALYSIS IN PHOTODEGRADATION.	Paulina Judith Camacho Flores
359	REN	Construction of a Hybrid Photovoltaic System Connected to an Air Conditioner and Utilization of Wind and Solar Light Reflection for Cooling an Enclosed Space	Eduardo Merino Montes
379	REN	GENERATION OF HYDROXYL RADICALS FOR THE REMOVAL OF AMOXICILLIN IN AQUEOUS MEDIA USING DSA-TYPE ELECTRODES AND CONSTANT AIR FLOW	Erika Bustos Bustos
381	REN	MULTISTAGE SYSTEM TO DEGRADE TOLUENE IN POLLUTED AIR	Erika Bustos Bustos
375	SEM	Magnetic and electric effects on low doped ZnO with Ni, experimental and DFT analysis	Pavel Saavedra
349	SEM	Study of two energy level GaNxAs1-x system to build up symmetrical double-well and step graded quantum well confinement potentials.	JESUS ROLANDO PINSON ORTEGA
233	SEM	SYNTHESIS OF PINK EMISSION CsPbBr_x ⟦I⟧_(3-x) PEROVSKITE NANOCRYSTALS THROUGH A SHORT-LENGTH CHAIN LIGANDS APPROACH	Fernando Edsel Guerra Vega

333	SEM	DESIGN OF A LATTICE-MATCHED InAs1-XSbX/AlIn1-YSbY QWs TYPE-I WITH TUNABLE EMISSION IN THE NEAR-INFRARED SPECTRAL RANGE (2-5 µm)	Gerardo Villa Martínez
135	SEM	EFFECT OF InGaAs UNDELAYING LAYER ON THE SELF-ASSAMBLING OF InAs QUANTUM DOTS GROWN BY MOLECULAR BEAM EPITAXY	D. Corte-Ponce
281	SEM	NUMERICAL OPTIMIZATION OF NANOSTRUCTURED ANTIREFLECTIVE COATING LAYER FOR GaAs-BASED SOLAR CELLS	K.L. Marquez-Antonio
323	SEM	FORMATION OF GaAs 3D structures THROUGH METAL-ASSISTED CHEMICAL ETCHING FOR APPLICATIONS IN INFRARED OPTOELECTRONIC DEVICES	Marco Antonio Ramírez Orozco
283	SEM	OPTICAL CHARACTERIZATION OF III-N-V MULTI-QUANTUM WELLS IN INTRINSIC GaAs FOR OPTOELECTRONIC APPLICATIONS	M.I. Bustos-Ibarra
277	SEM	The obtaining of ZnO Nanoparticles with potential antibacterial activity	Teresa Pacheco Álvarez
371	SEM	CHARACTERIZATION OF Ga(Mn)As DILUTED MAGNETIC SEMICONDUCTOR GROWN BY MOLECULAR BEAM EPITAXY	Alexis Ayala-Limón; Yoselin Angélica Bautista-Pineda
147	THF	ENHANCED SENSITIVITY IN NON-ENZYMATIC GLUCOSE SENSING USING METAL ELECTRODES MODIFIED WITH GRAPHENE OXIDE AND REDUCED GRAPHENE OXIDE	Jacob Adrián Collazo Vazquez
15	THF	Nanoparticle formation in co-sputtered Cu-Ni films deposited by reactive RF-Sputtering*	Alejandra Garcia-Sotelo

21	THF	GROWTH OF SMFE1-XCOX THIN FILM BY MOCVD AND EXITU DIFFUSION PROCESSES	Karen Aguilar-Mendoza
113	THF	Effect of adding a cooling system in a hybrid plasma: magnetron sputtering and graphite anode	Daniela Shealsey Jacobo Mora
179	THF	EVALUATION OF VANADIUM OXIDE THIN FILMS AS ELECTROCATALYST IN WATER SHIFT REACTIONS	Pastor Alan Rodríguez Echeverria
181	THF	“SYNTHESIS AND CHARACTERIZATION OF A-FE2O3, ZNO AND A-FE2O3/ZNO THIN FILMS”	Eduardo Morales Ricárdez
143	THF	Analysis of deposition parameters effects on ZnO properties by applying a Central Composite Design (CCD)	M. Loeza-Poot
157	THF	SYNTHESIS OF ZINC OXIDE THIN FILMS BY THE SILAR METHOD ON POLYMERIC SUBSTRATES FOR FLEXIBLE ELECTRONIC APPLICATIONS	JESUS EMMANUEL MEDRANO HINOJOSA
255	THF	A Simple Surface Modification of Glass Substrates to Promote Cadmium Sulfide Film Adhesion	Jose Pablo Estrella Leyva
253	THF	STRUCTURAL AND MAGNETIC PROPERTIES OF HIGH-ENTROPY Sr(RuTiMnFeNb)O$_3$ AND Sr(RuTiMnFeSc)O$_3$ THIN FILMS	Maury Solórzano Valencia
341	THF	EXPLORING THE OPTOELECTRONIC POTENTIAL OF TWO-DIMENSIONAL MONOLAYERS ON FLEXIBLE SUBSTRATES: GAINING INSIGHTS FROM THZ MICROSCOPY AND SPECTROSCOPY ANALYSIS	Alfredo David Morales Vite

339	THF	Influence of Sodium Tripolyphosphate on Sb2S3 films obtained by chemical bath deposition: A new route	Gabriela Esquina Arenas
251	THF	Optimization of La0.7Ca0.3MnO3 thin films deposition for implementation in magnetoelectric heterostructures	Maria de Lourdes Arreguin Hernandez
119	TSI	STUDY OF THE TRIBOLOGICAL PERFORMANCE OF BORIDED AISI M2 STEEL SUBSTRATES USING THE PIN-ON-DISC TEST	Leopoldo García Vanegas
83	TSI	Formation Laboratory of Surface Study, Modification and Application	Juan David Valle Ramos
79	TSI	TRIBOLOGICAL ANALYSIS OF TWO-LAYER CHROME COATING, NITRIDED, ELECTROLYTICALLY APPLIED ON TITANIUM	MARTIN CASTILLO
87	TSI	Characterization of AISI P20 steel with surface treatment	Jazmin Godinez Roa
351	TSM	AlAs(001) surface reconstruction. Atomistics insights	Raul Eduardo Santoy Flores
209	TSM	INFLUENCE OF GRAPHENE FUNCTIONALIZATION IN MANGANESE DIOXIDE ELECTRONIC PROPERTIES: A COMPUTATIONAL STUDY	Elizabeth Fernández García
225	TSM	ELECTRONIC STRUCTURE OF NICKEL-DOPED LK-99 MATERIAL: AB INITIO CALCULATIONS	Ernesto Alonso Guerrero García
395	TSM	DFT in a Computational calculation of normal vibrational modes for rhodamine B.	Carlos Alberto Carpio Amador
229	TSM	FIRST PRINCIPLES STUDIES OF THE SILVER DEPOSIT ON HIGH INDEX SILICON SURFACES	Gregorio Hernandez Cocoletzi

137	TSM	SIMULATION OF CHARGE TRANSPORT AND OPTICAL PROPERTIES IN THE DISTRIBUTION OF CARBON PARTICLES IN CARBON-TIO2 FILMS.	María Fernanda Martínez González
197	TSM	Experimental and theoretical assessment of the Eu3+ doped Bi4Ge3O12	Rodrigo Ponce Perez
357	TSM	STRUCTURAL, ELECTRONIC AND MAGNETIC PROPERTIES OF GAAS BIDIMENSIONAL: AB INITIO STUDY	Abigail del Pilar Valdés Guajardo
219	TSM	COMPLEX BAND STRUCTURE OF THERMAL WAVE CRYSTALS: THE PLANE-WAVE METHOD	César Augusto Romero Ramos