

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

<b>ID</b>	<b>SIMPOSIUM</b>	<b>TITLE</b>	<b>PRESENTER</b>
<b>76</b>	ALD	Effect of Oxidant Agent on Electrical and Optical Properties of Nickel Oxide Thin Films synthesized by ALD	Diego Giraldo Guzmán; Mario Hidrogo
<b>58</b>	ALD	STUDY OF THE OPTICAL AND STRUCTURAL PROPERTIES OF Zn AND AZO FILMS GROWN BY ATOMIC LAYER DEPOSITION	Carmen Lizet Seminario Panta
<b>120</b>	ALD	CHARACTERIZATION OF A LAB-MADE ATOMIC LAYER DEPOSITION SYSTEM USING ALUMINUM OXIDE FILMS	Jackeline Navarro Rodríguez
<b>138</b>	ALD	EFFECT OF ANNEALING ATMOSPHERE ON ELECTRICAL AND OPTICAL PROPERTIES OF MULTILAYER AL <sub>2</sub> O <sub>3</sub> /ZNO NANOLAMINATE STRUCTURES DEPOSITED BY ATOMIC LAYER DEPOSITION	Jesus Roman Martinez Castelo
<b>150</b>	ALD	EFFECT OF ANNEALING TEMPERATURE ON ELECTRICAL AND OPTICAL PROPERTIES OF NANOLAMINATE STRUCTURES DEPOSITED BY ATOMIC LAYER DEPOSITION	Francisco David Mateos Anzaldo
<b>188</b>	ALD	Development of a GaN/InGaN/GaN Quantum Well for RGB Light Emission using Atomic Partial Layer Deposition (APLD)	Iván Alejandro Jasso Granja
<b>210</b>	ALD	Synthesis of NiOx thin films by PEALD as active material for supercapacitor electrodes	Lilián Garay; Pierre Giovanni Mani González
<b>204</b>	BIO	Study of physiochemical changes of equine hydroxyapatite as a function of the age obtained by calcination	Brandon Alexis Correa Piña
<b>110</b>	BIO	SYNTHESIS AND CHARACTERIZATION OF A MOLECULAR IMPRINTED POLYMER	Hugo Martínez-Gutiérrez; Jimena Moreno Moranchel

<b>146</b>	BIO	IMPACT OF THERMAL AND PH VARIATIONS ON THE FUNCTIONAL PROPERTIES AND CONFORMATIONAL STABILITY OF THE VINORAMA (ACACIA CONSTRICTA) LECTIN	Amir Darío Maldonado Arce
<b>132</b>	BIO	MICROENCAPSULATION OF CALENDULA ESSENTIAL OIL FOR ANTI-AGING SKIN APPLICATIONS.	Monserrat Barrera
<b>142</b>	BIO	DETERMINATION OF THE CURING TIME OF DIFFERENT BIOCOMPATIBLE DYE RESINS USING THE PHOTOACOUSTIC TECHNIQUE	José Luis Jiménez Pérez; José Luis Luna Sánchez
<b>186</b>	BIO	Molecular Dynamic Study of Behavior of Surfactants Under Water Confinement.	Jonathan Rene Santos Castillo; Cesar Marquez Beltran
<b>170</b>	BIO	MOF-LDH COMPOSITES FOR SULPHUR DIOXIDE ADSORPTION IN AIR: A STUDY	Juan Andres Flores Aguilar
<b>288</b>	BIO	ANALYSIS OF MECHANICAL, THERMAL AND MICROSTRUCTURAL PROPERTIES OF POLYPROPYLENE/RESIDUAL CERAMICS	CRISTAL PALOMA GONZALEZ HERNANDEZ
<b>372</b>	BIO	SELECTIVITY OF NANOCOMPOSITE MEMBRANES OF KRAFT AND ORGANOSOLV LIGNINS IN CELLULOSE TRIACETATE (TAC) APPLIED TO WATER POLLUTION	Julio Cesar Reyes De Leon
<b>320</b>	BIO	Vegetal material alternatives for industrial chlorophyll production	Ana Karen Almodóvar Núñez
<b>350</b>	CHM	EVALUATION OF HEMOGLOBIN IN URINE AS A BIOMARKER OF KIDNEY DAMAGE: IMPLEMENTATION OF CALIBRATION CURVES OBTAINED BY PHOTOACOUSTIC SPECTROSCOPY. TEST PILOT.	Sindy Janneth Olvera Vazquez
<b>92</b>	CHM	Sensitivity enhancement in dual-beam mode-mismatched transient thermal lens spectroscopy by a differential approach	Jorge Luis Mejorada Sánchez

228	CHM	MICROSTRUCTURAL CHARACTERIZATION OF CONCRETE WITH GRAPHITE PARTICLE AGGREGATES	Alejandro Flores Nicolás
172	CHM	CALCIUM CARBONATE NANOPARTICLES IN DRINKING WATER	César Márquez Beltrán
248	CHM	Characterization of reactive magnetron sputtering using a pulsed direct current power source	Estrella Teran-Hinojosa
274	CHM	Inhomogeneous interference filters. A promising deposition technique	Roberto Machorro Mejía; Noemi Abundiz Cisneros
290	CHM	Porosity percentage effect on porous silicon optical absorption	Noemi Hernández Oliva; Azalia Jazmin López López; Jesús Claudio Sánchez Nájera
256	CHM	Determination of Thermal Diffusivity in Thin Films Using Lock-in Thermography Technique	Usiel Omar García Vidal
236	CHM	STRUCTURAL CHARACTERIZATION OF NIFE/CU/NIFE TRILAYER FILMS: EFFECT OF COPPER LAYER THICKNESS	Miguel Angel Escudero Garcia
20	LP	Structural and Luminescent properties of CsVO <sub>3</sub> :Nd <sup>3+</sup>	María Esmeralda González Hernández
28	LP	Structural Rigidity and Blue Luminescence in a Lanthanum(III) Complex: A Case Study with 1,10-Phenanthroline	Karla Scanda Raymundo Silva
116	LP	Mn <sup>2+</sup> -Yb <sup>3+</sup> Super-Exchange interaction in zinc phosphate glass	Héctor Aníbal Félix Quintero
130	LP	EMBEDDED METALLIC PATTERNS IN A HYBRID-MICROCAVITY USING E-BEAM LITHOGRAPHY.	Eliseo García Ramírez
166	LP	MODEL BASED ON DIFFERENTIAL EQUATIONS TO EXPLAIN THE QUENCHING OF LUMINESCENT POROUS SILICON IN AN ETHANOL-WATER SYSTEM.	Esteban Ireta
264	LP	White emission of carbon quantum dots obtained from the avocado peel	Giovani Josué Hernández Mendoza

340	LP	Nanographite: Detailed Analysis of its Optical Properties through Excitation Photoluminescence Spectroscopy	Juan José López Hernández
238	LP	STUDY OF THE LUMINESCENT AND STRUCTURAL PROPERTIES OF CsVO <sub>3</sub> :Er <sup>3+</sup> FOR INFRARED APPLICATIONS	María Leonor Porras Sánchez
334	LP	Eu <sup>3+</sup> doped Al <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> for red-emitting phosphors applications	Piero Alessandro Pérez Ramos
246	MEM	INFLUENCE OF DEPOSITION CYCLES OF ZNO THIN FILMS BY SILAR FOR CO GAS SENSING ASSESSMENT	Víctor Hugo Martínez-Landeros
266	MEM	Evaluation of various topologies of NMOS inverters based on flexible TFTs	Norberto Hernandez Como
386	MMM	Nickel concentration effect on Curie temperature in FeCoNi multi-principal element alloys	Jose Trinidad Elizalde Galindo
122	MMM	"CORE-SHELL NIFE <sub>2</sub> O <sub>4</sub> @CEO <sub>2</sub> NANOPARTICLES WITH HIGH PHOTOCATALYTIC PERFORMANCE FOR THE REMEDIATION OF TOXIC PHARMACEUTICAL WASTE IN WASTEWATER"	Guadalupe Jaquebet Vargas Bustamante
302	NS	DEVELOPMENT OF SERS SUBSTRATES FOR THE DETECTION OF DIFFERENT ANALYTES INCLUDING RHODAMINE B AND RHODAMINE 6G	Uriel Alcides Torices Saucedo
70	NS	SI/LATIO <sub>3</sub> SEMICONDUCTOR-OXIDE INTERPHASE: A DFT THEORETICAL STUDY	Jaime Eugenio Antonio Pallares
134	NS	Pressure tuning the density of states in one-dimensional photonic crystal	FRANCIS SEGOVIA CHAVES
194	NS	LASER EFFICIENCY AND EXTENDED DYNAMICS OF NANOEMITTERS EMBEDDED IN CARBON NANOFIBERS	JESÚS JONATHAN MARTÍNEZ OCAMPO
184	NS	Fabrication of nanofibers from PET using a solution of CHCl <sub>3</sub> and C <sub>2</sub> HF <sub>3</sub> O <sub>2</sub> acid.	Daniel Reyes Fabian

190	NS	METHYLENE BLUE DEGRADATION UNDER VISIBLE LIGHT EXPOSURE USING TiO <sub>2</sub> /Au NANOCOMPOSITES SYNTHESIZED VIA LASER ABLATION OF SOLIDS IN LIQUIDS	Muriel Fregoso-Mora
300	NS	Condensation of water from the atmosphere with a Peltier cell through nanostructured materials	Julio Cesar Cruz Cardenas
338	NS	COMPARATIVE STUDY OF TWO DIFFERENT LACASSE ENZYMES IMMOBILIZED IN NTC'S USED AS BIOSENSOR TO DETECT CATECHOL	MA. GUADALUPE GARNICA ROMO
348	NS	NANO-STRUCTURED MG <sub>2</sub> (B <sub>2</sub> O <sub>5</sub> ) AND MG <sub>2</sub> (B <sub>2</sub> O <sub>5</sub> ):DY THERMOLUMINESCENT MATRIXES AND THEIR POTENTIAL APPLICATIONS AS TLDS.	Natalia Elena Solís De Ávila
26	PV	MULTILAYER MODEL SOFTWARE FOR CHEMICAL COMPOSITION ANALYSIS FROM XPS DATA	Carlos Alberto Ospina Ocampo
34	PV	Fit and background parameters of the 4f core level of the sixth-row elements using the double Lorentzian line shape.	Abraham Jorge Carmona Carmona
56	PV	Analysis of Sputtering Yield Amplification (SYA) using Optical Emission Spectroscopy (OES), employing materials Cu, Ti, Mo, Ta, C, and Si	Marco Antonio Martinez Fuentes
388	PV	PLASMA CHARACTERIZATION IN THE PRODUCTION OF ZrO <sub>2</sub> -Ni COATINGS BY CO-SPUTTERING	Roger Mauricio Pérez Cruz
278	PV	AUTOMATION OF A DROPWISE CONDENSATION COLLECTION WATER SYSTEM WITH ARDUINO.	Veronica Cristel Vázquez De la Cruz
282	PV	ANALYSIS OF THE INTENSITY OF SPECTRAL LINES FROM EXCITED STATES OF TA AND GE USED FOR SPUTTERING YIELD AMPLIFICATION OF SI	Rebecca Giffard Mendoza
30	REN	Solvent and pH implication on the synthesis of CuBi <sub>2</sub> O <sub>4</sub> as photocatalyst for various applications	Maria Fernanda Hernández-García
42	REN	Numerical simulation of a solar cell based on a double CdTe/FeSi <sub>2</sub> absorber layer and an AZO window layer with an efficiency of 26.34 %	Enrique Rosendo Andrés

96	REN	STUDY OF PHYSICOCHEMICAL PROPERTIES OF BIO-OIL	Gemima Lara Hernandez
98	REN	CHARACTERIZATION OF INDIUM-DOPED ZNO FILMS DEPOSITED BY ROOM TEMPERATURE SHAVINGS REACTIVE MAGNETRON SPUTTERING (SRMS) FOR PHOTOVOLTAIC APPLICATIONS	ANA CRISTINA CARRANZA SÁNCHEZ
176	REN	TROUGH-BOND APPROACH ENHANCED CONDUCTIVITY OF A POROUS METAL-ORGANIC COORDINATION POLYMER: HIGHLY ELECTROCHEMICAL-REVERSIBLE ELECTRODE SUPERCAPACITOR PERFORMANCE	Marco Antonio López Martínez
358	REN	DESIGN, SIMULATION AND CONSTRUCTION OF A HELICAL SAVONIUS ROTOR FOR POWER GENERATION IN RURAL HOUSING	RUBÉN DOMINGUEZ MALDONADO
310	REN	GROWTH OF ZINC OXIDE NANOSTRUCTURES BY THE VAPOR-LIQUID-SOLID TECHNIQUE: EFFECT OF THERMAL TREATMENT ON THE SEED LAYER AND CATALYST	José Francisco Malagón García
16	REN	SYNTHESIS OF BOROPHENE NANOSTRUCTURES BY ULTRASONIC EXFOLIATION AS SUPPORT OF NOBLE METAL NANOPARTICLES FOR POTENTIAL H2 PRODUCTION	Eric Fernando Vázquez Vázquez
324	REN	TEXTURED Al-DOPED ZnO (AZO) TCO OBTAINED VIA MAGNETRON SPUTTERING UNDER A NOVEL SOFT-DEPOSITION METHODOLOGY	Karina Portillo Cortez
174	REN	PHOTOCATALYTIC DEGRADATION OF RHODAMINE B POLLUTANT USING A BISMUTH FERRITE CATALYST.	Lissette Medina de la Rosa
182	REN	DEVELOPMENT AND CHARACTERIZATION OF PVDF/BaTiO3 COMPOSITES FOR SUSTAINABLE ENERGY HARVESTING	Alicia Natalia Ruiz Ramos
286	REN	ANALISIS OF THE CONVERSION EFFICIENCY OF A SOLAR TREE STRUCTURE	Emiliano Molina Valdés

360	REN	SYNTHESIS AND CHARACTERIZATION OF HOLLOW Co Fe <sub>2</sub> O <sub>4</sub> MICROSPHERES WITH POTENTIAL APPLICATION IN ENERGY HARVESTING	Carlos Alberto Gallardo Vega
378	REN	PHENOL ADSORPTION ON A PERMEABLE REACTIVE BARRIER (PRB) OF ACTIVATED CARBON IN VARIOUS pH CONDITIONS	Erika Bustos Bustos
216	SEM	Analysis of the initial thermodynamic conditions to grow GaAsSb epitaxial layers by Liquid Phase Epitaxy (LPE) on GaAs substrates	Andrei Gorbachev
296	SEM	Enhanced Solvent Sensing with Mesoporous Layer in MIS Capacitors	Joaquin Alvarado
62	SEM	Optical characterization of GaN/SiO <sub>2</sub> in Hexagonal phase synthesized by PLD	Jesus Adrian Cano Salazar
254	SEM	UNVEILING THE EFFECTS OF ANTIMONY (Sb) CRYSTALLINITY ON THE ANTIMONY TRISULFIDE Sb <sub>2</sub> S <sub>3</sub> SYNTHESIS OBTAINED BY A TWO-STEP METHOD.	Mario Elias Garcia
90	SEM	STUDY OF ELECTRIC FIELD DISTRIBUTION ON p-i-n GaAs-BASED SEMICONDUCTOR STRUCTURE THROUGH PHOTOREFLECTANCE SPECTROSCOPY	K.L. Marquez-Antonio
18	SEM	THE IMPACT OF SOLUTION ACIDITY AND BALL MILLING ON THE ELECTRICAL AND OPTICAL PROPERTIES OF FZO THIN FILMS DEPOSITED BY ULTRASONIC SPRAY PYROLYSIS	Gabriela Bobadilla Barron
54	SEM	LIGHT SENSOR PERFORMANCE OF NdCoO <sub>3</sub> PREPARED BY CO-PRECIPIATION METHOD.	Luis Adrián Acosta Santoyo
152	SEM	The properties of transparent conducting molybdenum-doped ZnO films grown by thermal evaporation	Marcelino Becerril
68	SEM	Exploring Graphene's role in III-V semiconductors growth.	Angel Leonardo Martinez Lopez

240	SEM	Impact of Precursor Concentration and Annealing Temperature on the Photocatalytic Efficiency of SnO <sub>2</sub> Nanoparticles for Degrading Organic Pollutants.	Mariana Romero juarez
330	SEM	Delta doping band engineering in GaNAs/GaAs structures grown by MBE for THz applications	Alfredo Belio Manzano
250	SEM	OPTICAL PROPERTIES OF KESTERITE Cu <sub>2</sub> (Sn <sub>1-x</sub> Gex) <sub>3</sub> S <sub>3</sub> THIN FILMS	Jose Fernando Lugo; Javier Alanis; Esteban Cruz Hernandez; Angel Rodriguez
258	SEM	Development of a Gallium Oxide Heterostructure for Enhanced UV Solar Blind Photodetector Applications	César Augusto Ramírez Cisneros
136	SEM	OPTICAL AND NUMERICAL ANALYSIS OF SELF-ASSEMBLED InAs QUANTUM DOTS GROWN ON InGaAs VIA MOLECULAR BEAM EPITAXY	A. Hernandez-Reyna
224	SEM	PHOTOCATALYTIC PRODUCTION OF CO <sub>2</sub> TO HYDROCARBONS WITH UV AND VISIBLE LIGHT BY TiO <sub>2</sub> /GRAPHENE QUANTUM DOTS	Miriam Béjar Sánchez
354	SEM	Optical and morphological properties of ZnO thin films deposited by using a low-cost spray pyrolysis system	Gerardo Alonzo
374	SEM	STRUCTURAL, CHEMICAL AND THERMOLUMINESCENCE CHARACTERIZATION OF MEXICAN MINERALS OF DAILY USE	Daniel Gutiérrez Salinas
196	THF	Effect of PVA, complexing agent concentration and deposition time on morphological, optical, and photocatalytic properties of CdSe thin films by chemical bath deposition.	Nadia Cruz González; Andrea Vanesa González Amezcua
126	THF	Characterization of Zinc Oxide thin films deposited by the Ultrasonic Spray Pyrolysis technique for optoelectronic applications	Leticia Avila Maximo
366	THF	AZO thin films obtention by atomic diffusion method in trilayer arrangements	JAVIER ELIEL MORALES MENDOZA



252	THF	INFLUENCE OF MIXED PHASES ON THE ELECTRICAL AND SUPERCONDUCTING PROPERTIES OF NBN THIN FILMS	Erick Benitez-Flores
158	THF	EFFECT OF ADDITION OF PRISTINE MONTMORILLONITE IN WATER-BORNE POLYMER USED AS COATING	Jenaro Leocadio Varela Caselis
114	THF	CHARACTERIZING LEAD-FREE PIEZOELECTRIC THIN FILMS USING PULSED LASER PHOTOACOUSTIC WAVES FOR ULTRASONIC TRANSDUCERS	Erick Benítez-Flores
322	THF	ELECTRICAL AND OPTICAL ANALYSIS OF ULTRA-THIN FILMS OF NANOMATERIALS VIA THZ TIME-DOMAIN TRANSMISSION SPECTROSCOPY	Gustavo Hilario Perez
262	THF	Magnetic and Electrical comparative of Amorphous Co-rich hybrid trilayers	Enrique Francisco Pinzón Escobar
326	THF	Study of chromium thin films by cathodic sputtering with rotating substrate holders	Muhl Stephen
80	TSI	Techniques for determining the thickness of the lubricating oil film in refrigeration systems	ERICK MONSIBAIS SILVA
86	TSI	Characterization of AISI 01 steel with surface treatment	Ian Abisay Garcia Moreyra
390	TSI	TRIBOLOGICAL PROPERTIES AND MICROSTRUCTURE OF (TiAlZrTaNb) <sub>Nx</sub> /TiAlZrTaNb MULTILAYERS GROWN ON HAYNES 282 SUPERALLOYS.	MIGUEL ANGEL HUERTAS IBAÑEZ
336	TSI	Deposition of Ti/Mg multilayer coatings on pyrex glass subjected to gamma radiation	CARLOS RIVERA RODRIGUEZ
346	TSI	Characterization of hybrid plasma generated by combining microwave nitrogen plasma with láser ablation plasma of a molybdenum target.	Enrique Campos Gonzalez
78	TSI	BEHAVIOR TO DRY ABRASIVE WEAR OF A BORIDING AND CARBONITRIDED AISI 8620 STEEL ANALYSIS	MARTIN CASTILLO

<b>178</b>	TSM	Water splitting mediated by proton transfer on defected BiOI surfaces.	Gabriel Martinez Gutierrez
<b>88</b>	TSM	Determination of thermal properties in thermal insulating solids using Infrared Photothermal Radiometry (IPTR) and numerical simulation by COMSOL Multiphysics	R. C. García Zúñiga
<b>36</b>	TSM	DFT+U STUDY OF THE STRUCTURAL AND ELECTRONIC PROPERTIES OF ZnO-O (0001) POLAR SURFACE	Roberto Silva Gonzalez
<b>226</b>	TSM	DFT STUDY OF GRAPHENE OXIDE INTERACTING WITH THE BATIO3(001) SURFACE	Reyes García Díaz
<b>140</b>	TSM	NUMERICAL APPROXIMATIONS FOR THE MADELUNG CONSTANTS AND THE BINDING ENERGIES FOR CRYSTAL LATTICES FCC, BCC AND HCP	Jorge Luis Medrano Mendieta
<b>100</b>	TSM	Ab-initio Assessment of Thermoelectric Properties of Cobalt-doped Zinc Oxide.	Josquin Sedas Tchumamo Nkouonga
<b>356</b>	TSM	ELECTRONIC PROPERTIES OF GRAPHYNE AND GRAPHENE MODIFIED WITH VACANCIES AND SUBSTITUTED MN DOPING: A DFT STUDY	Otniel García Domínguez
<b>328</b>	TSM	COMPUTER SIMULATION OF THE IRRADIATION OF (BI, PB)-2212 SUPERCONDUCTING THIN FILMS WITH IONS FOR THE CREATION OF MAGNETIC VORTEX PINNING POINTS	Francisco Emmanuel Sánchez Zacate
<b>106</b>	TSM	EFFICIENT COMPUTATIONAL MODEL FOR PREDICTION OF CONTINUUM PERCOLATION THRESHOLD FOR SPHERICAL PARTICLES IN 3D POLYMER/CONDUCTIVE COMPOSITES	Arturo Ruiz Vargas