Poster Session 1

Odd Numbers

Tuesday, 23 September, 17:45 – 20:00

Gimnasio, Edificio Carolino

ID	TITLE	SIMPOSYUM
7	Theoretical Studies of the Photoluminescence Phenomenon of Silicene Using DFT and HF Methods	LP
9	Boron phosphide monolayer for C2H2 and H2Se adsorption by DFT	TSM
13	DESIGN AND CONSTRUCTION OF MS2@TIO2 HETEROJUNCTIONS (WHERE M IS MO2+ AND W4+) FOR PHOTOCATALYTIC APPLICATIONS USING VISIBLE LIGHT.	NS
19	Numerical Simulation and Modeling of WO₃/CuO Solar Cells using SCAPS-1D	REN
21	Study and simulation of the semitransparent solar cell based on the heterojunction n-TiO2/p-NiO using SCAPS-1D	REN
25	SYNTHESIS OF GOLD CONCAVE NANOCUBES AND THEIR EXCHANGE OF SURFACTANT WITH SODIUM CITRATE, FOR THEIR POTENTIAL USE AS SENSORS OF BIOMARKERS	BIO
29	MECHANICAL EXFOLIATION OF GRAPHITE USING ULTRASONIC CAVITATION	NS
33	High-performance photodetection of UV-visible-NIR by Ag-Mn2O3 heterojunctions	SEM
35	Zinc sulfoxide thin films by chemical bath deposition with potential for utilization of solar energy	THF
41	Optical properties of flexible PET/ITO and PII/ITO substrates exposed to visible solar radiation	REN
43	DEGRADATION OF MALAQUITE GREEN BY ADSORPTION AND PHOTOCATALYSIS WITH DIFFERENT COMPOUNDS	NS
45	Synthesis and structural characterization of metal oxides for photoelectrochemical hydrogen generation.	SEM
49	Temperature growth effects study of Ga_2O_3 and its response to UV light	SEM
51	Silicon Oxynitride Thin Films by means HFCVD: A Study of the Composition, Structure, and Optical properties	THF
55	Plasma-Enhanced ALD Growth Window and Composition Tuning of Al _{1-x} Sc _x N for Emerging Neuromorphic Applications	SEM

63 Film	optical Characterization of Hexagonal Phase GaN Thin s Synthesized by Pulsed Laser Deposition (PLD)	PLV
69 Electrical be		
	chavior of bismuth ferrite microstructures as a function of bismuth content	REN
73 Physica	properties of GaN and AIN thin films deposited by sputtering	THF
77 On the pro	spects of using alumoborosilicate glass as a hydrogen battery	REN
81 Fabrication	n and characterization of nanoscale vacuum electronic devices.	MEM
X /	plasmon resonance of gold and silver nanoparticles ed by PLD on substrates with controlled roughness	PLV
X9	ve Antimicrobial Evaluation of Green-Synthesized ZnO anoparticles using Ginger and Garlic Extracts	SEM
91	Characterization of Copper boride surfaces	TSI
93 Compar	rative analysis of the recycling methods used in c-Si photovoltaic modules	SEM
95 Optical Char	acterization of Carbon Quantum Dots Synthesized from Avocado Peel in Different Solvents	LP
97 LUMINE	ESCENT PROPERTIES OF Al2O3-Li2O-B2O3 GLASSES ACTIVATED WITH Tb2O3	LP
99	Electroluminescence in BiFeO3	LP
	PLD GROWTH OF Au-MEDIATED ZnO STRUCTURES: NCE OF SUBSTRATE TEMPERATURE AND AMBIENT PRESSURE	NS
111 Injection mo	olding process for polypropylene device used in chrome plating	ВІО
114	of optical constants of (CdTe)1-x(In2Te3)x films grown puttering and study of their electrical properties.	SEM
115	SED MOFS FOR THE DEVELOPMENT OF SENSORS FOR DETECTION OF VOLATILE ORGANIC COMPOUNDS	NS
117 Numeri	ical analysis of heat transfer in solids from infrared photothermal radiometry measurements	TSM
121 Functionalize	e porous silicon (PSi) with phthalocyanines as a possible application for gas sensing	SEM
175	Force and Electronic Flux as Descriptors for Oxygen in N-Doped Graphene-Based Single-Atom Catalysts"	TSM

127	ZnO NANOCOMPOSITE WITH CARBON QUANTUM DOTS: A PHOTOCATALYTIC SOLUTION FOR ANTIBIOTIC REMOVAL FROM WATER.	SEM
129	Modification of chitosan films by laser processing	TSI
131	Synthesis and Characterization of Chitosan (Cts) Reinforced with Hydroxyapatite (Ha) via an Electrochemical Process on 316L Stainless Steel	TSI
133	Growth and analysis of Multi-Stacked InAs Quantum Dots using GaAs and InGaAs as matrix semiconductor Layers	SEM
135	Synthesis and physical characterization of ZnCuO thin films	SEM
139	Synthesis and Study of the Structural Properties of ZnO Co-doped with Er and Zr.	LP
143	Sm₂O₃–Eu₂O₃ Aerogels Functionalized with TTA: Synthesis and Characterization	LP
145	METASTABLE MgO(001)/MnGe2 CO-SPUTTERED THIN FILMS SYNTHESIZED BY REACTIVE DEPOSITION EPITAXY METHOD (RDE)	THF
147	Optimization and Comparison of Photovoltaic Energy Production in Silicon and CdTe Solar Panels Under Real-World Conditions	REN
149	Flexible UV photodetector based on ZnO thin film on polyimide substrate	MEM
151	Exploration of InAs QD Nucleation on III-N-V semiconductors Materials for Strain Balance Applications	SEM
157	Blue, green luminescence response of green synthetized graphene oxide nanoparticles obtained by control numeric assisted laser ablation from lemon and tangerine peels	LP
159	Thermochemical Boriding of AISI 1080 Steel: A Study on Surface Hardening and Layer Growth	TSI
161	Synthesis and preliminary optical characterization of SnO thin films deposited by spray pyrolysis	SEM
165	ONE-STEP SYNTHESIS OF MOS2/TIO2 USED FOR DEGRADATION OF METHYLENE BLUE	NS
169	ZINC OXIDE FILMS OBTAINED BY ULTRASONIC SPRAY PYROLYSIS FOR THE EVALUATION OF THEIR PIEZOELECTRIC POTENTIAL	SEM
175	Analysis of Photovoltaic Properties in III–V Quantum Wire Short- Period Superlattice Solar Cells Using Silvaco ATLAS	SEM
177	Exploring Hubbard Corrections in Nb4C3 MXene: Impact on Electronic Structure and Hybridization Dynamics	TSM
179	DEVELOPING GA2O3 PHOTOELECTRODES FOR EFFICIENT PHOTOELECTROCHEMICAL CELLS	SEM

Analysis and study of the growth of SiO2 and porous-SiO2 films by DC reactive sputtering	TSI
Soft-Templated N-Doped Hollow Carbon Spheres as a Platform for NiS-Based HER Electrocatalysts	СНМ
Estimation of Absorbed dose response due to g-Rays and Neutrons in pure and Dy- and Eu-doped Hydroxyapatite using Monte Carlo methods	TSM
Surface Engineering of HfO₂ by Spin Coating and ALD: A Comparative Approach for MOS/MIM biosensors	SEM
Physical and thermal characterization of fermented arabica coffee cherry (Coffea arabica L.) solutions	ВІО
Controlling the α-MoO ₃ growth parameters via thermal oxidation and reactive magnetron RF-Sputtering	THF
FABRICATION OF CARBON-COATED Fe3O4 NANOPARTICLES (Fe3O4@C) FOR MICROWAVE ABSORBER APPLICATIONS	NS
Green synthesis of nanoparticles WO3 decorated with GOQDs	NS
Synthesis and characterization of novelty bismuth multi-principal elements or high entropy alloys	THF
Optical and Electrical Diagnostics of Reactive Magnetron Sputtering Plasmas for Thin Film Engineering	СНМ
Characterization of Chitosan (Cts) Coatings Reinforced with Hydroxyapatite (Ha) on Cylindrical Titanium Alloy (Ti) Substrates	TSI
OPTIMIZATION OF ORGANIC SOLAR CELLS WITH P3HT:PCBM MATERIAL BY VARYING TRANSPORT LAYERS USING SCAPS-1D	REN
Effect of Metal Contact Position on IGZO-Based Interdigitated Structures for Sensor Application	MEM
Memristive Behavior in Ultrathin Ga₂O₃ Films Deposited by ALD on TiN/Si	SEM
Implementation of a treatment train of Coagulation-Flocculation, Biological and Advanced Oxidation Processes for the elimination of emerging contaminants from CDMX wastewater	REN
Deposition and Characterization of Ag and Mo Thin Films Using e- beam for Optoelectronics Applications	THF
DEVELOPMENT OF LUBRICANT ADDITIVES BASED ON ADVANCED MATERIALS	TSI
Study of the physicochemical and luminescent properties of the TbTPTZ@HKUST-1 composite.	LP
Luminescence Study of Ca3(VO4)2: Sm3+ for horticulture applications	LP
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247	Development of a ZnO Photoelectrode for its Use in Photoelectrochemical Cells	SEM
251	DESING OF METAL-DOPED TIO2 NANOTUBULAR ARRAY SURFACES AS FUNCTIONAL PLATFORMS FOR ADVANCED ELECTROCHEMICAL SENSING	NS
253	Semiconductor-assisted chemical etching.	MEM
255	Ultra-high photocatalytic activity of ZnS thin film with Cu islands for dye degradation	REN
263	ENCAPSULATION OF A BIOHERBICIDE CONTAINING INORGANIC NANOPARTICLES WITH CONTROLLED-RELEASE PROPERTIES	NS
265	Simulation-Based Study of Fermi Energy Level and Dielectric Substrate Effects on the Electromagnetic Response of Graphene- Based Metasurfaces	TSM
267	Development of a Flexible Microcoil for Wireless Power Transfer in Implantable Devices	MEM
269	Cheap Separation Process for Biochar-derived Carbon Quantum Dots	NS
275	Characterization of nanostructured cerium oxide thin films in the photoelectrocatalytic water-splitting process	REN
279	FeRh THIN FILMS OBTAINED BY PULSED LASER ABLATION	THF
281	OPTIMIZING EXPERIMENTAL CONDITIONS FOR ENHANCED SULFURIZATION OF ZNO NANOWIRES AND ZNO-ZNS CORE-SHELL FORMATION	NS
285	Structural and Morphological Characterization of Indium Selenide synthesized via Mechanical Alloying in a Commercial Mill	SEM
291	Electron paramagnetic resonance in the sodium phosphate glasses doped with MnO	СНМ
293	DFT study on the influence of biphenylene-type nanostructuring on the electronic properties of group IV-A carbides	TSM
295	The optical response of layered [layer_1/layer_2]_N metamaterials: A study through the transfer matrix formalism	СНМ
299	Influence of Solvents and Precursors on the Deposition of ZnO Thin Films by AACVD	THF
301	The optical response of stacked non-periodic plate systems using the transfer matrix formalism	СНМ
303	SYNTHESIS AND CHARACTERIZATION OF FE2O3 NANOSTRUCTURE VIA PULSED LASER ABLATION IN LIQUID	NS
305	Optical and structural studies of polycrystalline thin films of Cadmium Tellurium processed by CSVT technique	THF

307 Lanthanide upconversion nanoparticles as a temperature sensor 311 SYNTHESIS AND CHARACTERIZATION OF Y ZEOLITE EXCHANGED WITH Ni2+ AND REDUCED Ni0 BY DRS, XRF AND TGA Comparative Evaluation of Hydroxyapatite Coatings on TiGAI4V and 316L Stainless Steel Using Laser Ablation, Plasma Spraying, and Sol- Gel Techniques 315 Simulation of Energy Deposition in Proton Beam Therapy for Prostate Cancer Using SRIM 317 MECHANICAL AND WATER VAPOR PERMEABILITY PROPERTIES OF BIOFILMS MADE FROM CROSS-LINKED STARCH AND PLASTICIZERS SYNTHESIS AND CHARACTERIZATION OF AU-FE3O3 HYBRID NANOSTRUCTURES VIA LASER ABLATION IN LIQUID FOR BIOMEDICAL APPLICATIONS 321 Comparative Analysis of the Refractive Index of Graphene Oxide and EGCG-Reduced Graphene 329 Thermal Diffusivity Enhancement in Polycaprolactone Fibers through Nanomaterial Incorporation 331 Growth of 1D Zinc Oxide Structures by the Vapor-Liquid-Solid Technique: Role of Substrate Position and Displacement 335 PRISMA-COUPLED OPTICAL BIOSENSOR BASED ON 2D MATERIALS NS Thermic protection of cuticle of garambullo (Myrtillocactus geometrizans), agave (Agave salmiana), nopal (Opuntia spinulifera) and sábila (Aloe vera) 347 Photonic Bandgaps in Photonic Crystals for High-Performance Optical Devices: A Comparative Bioinspired Approach Structural and electronic properties of full and half-Heusler Co2VGa structures: DFT study Sustainable Polymeric Composites from Epoxidized Linseed Oil and Recycled Zinc Oxide from Alkaline Batteries: Decomposition Temperature, Photoluminescence, and Dielectric Behavior Characterization of zinc oxide from spent alkaline batteries: photoluminescence and aspect ratio Characterization of zinc oxide from Ren Photonic Ren Primer for the Removal of Methylene Blue Hydrogen Production via Aqueous Glycerol Reforming Assisted by Ultrasound Using a Heterogeneous Catalyst. 377 Sensor design and simulation in Klayout SEM			
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313 316L Stainless Steel Using Laser Ablation, Plasma Spraying, and Sol-Gel Techniques 315 Simulation of Energy Deposition in Proton Beam Therapy for Prostate Cancer Using SRIM 317 MECHANICAL AND WATER VAPOR PERMEABILITY PROPERTIES OF BIOFILMS MADE FROM CROSS-LINKED STARCH AND PLASTICIZERS 319 SYNTHESIS AND CHARACTERIZATION OF AU—FE ₂ O ₃ HYBRID 319 NANOSTRUCTURES VIA LASER ABLATION IN LIQUID FOR BIOMEDICAL APPLICATIONS 321 Comparative Analysis of the Refractive Index of Graphene Oxide and EGCG-Reduced Graphene 329 Thermal Diffusivity Enhancement in Polycaprolactone Fibers through Nanomaterial Incorporation 331 Growth of 1D Zinc Oxide Structures by the Vapor—Liquid—Solid Technique: Role of Substrate Position and Displacement 335 PRISMA-COUPLED OPTICAL BIOSENSOR BASED ON 2D MATERIALS 336 Thermic protection of cuticle of garambullo (Myrtillocactus geometrizans), agave (Agave salmiana), nopal (Opuntia spinulifera) and sábila (Aloe vera) 347 Photonic Bandgaps in Photonic Crystals for High-Performance Optical Devices: A Comparative Bioinspired Approach 348 Structural and electronic properties of full and half-Heusler Co2VGa structures: DFT study 349 Sustainable Polymeric Composites from Epoxidized Linseed Oil and Recycled Zinc Oxide from Alkaline Batteries: Decomposition Temperature, Photoluminescence, and Dielectric Behavior 340 Characterization of zinc oxide from spent alkaline batteries: photoluminescence and aspect ratio 341 Synthesis and Characterization of Spherical ZnO Coatings from Zinc Primer for the Removal of Methylene Blue 342 Hydrogen Production via Aqueous Glycerol Reforming Assisted by Ultrasound Using a Heterogeneous Catalyst.	311		NS
### Prostate Cancer Using SRIM MECHANICAL AND WATER VAPOR PERMEABILITY PROPERTIES OF BIOFILMS MADE FROM CROSS-LINKED STARCH AND PLASTICIZERS SYNTHESIS AND CHARACTERIZATION OF AU—FE2O3 HYBRID NANOSTRUCTURES VIA LASER ABLATION IN LIQUID FOR BIOMEDICAL APPLICATIONS SUMMEDICAL APPLICATIONS NS BIOMEDICAL APPLICATIONS	313	316L Stainless Steel Using Laser Ablation, Plasma Spraying, and Sol–	ВІО
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Technique: Role of Substrate Position and Displacement PRISMA-COUPLED OPTICAL BIOSENSOR BASED ON 2D MATERIALS Thermic protection of cuticle of garambullo (Myrtillocactus geometrizans), agave (Agave salmiana), nopal (Opuntia spinulifera) and sábila (Aloe vera) Photonic Bandgaps in Photonic Crystals for High-Performance Optical Devices: A Comparative Bioinspired Approach Structural and electronic properties of full and half-Heusler Co2VGa structures: DFT study Sustainable Polymeric Composites from Epoxidized Linseed Oil and Recycled Zinc Oxide from Alkaline Batteries: Decomposition Temperature, Photoluminescence, and Dielectric Behavior Characterization of zinc oxide from spent alkaline batteries: photoluminescence and aspect ratio Synthesis and Characterization of Spherical ZnO Coatings from Zinc Primer for the Removal of Methylene Blue Hydrogen Production via Aqueous Glycerol Reforming Assisted by Ultrasound Using a Heterogeneous Catalyst. REN	329	• • •	BIO
Thermic protection of cuticle of garambullo (Myrtillocactus geometrizans), agave (Agave salmiana), nopal (Opuntia spinulifera) and sábila (Aloe vera) Photonic Bandgaps in Photonic Crystals for High-Performance Optical Devices: A Comparative Bioinspired Approach Structural and electronic properties of full and half-Heusler Co2VGa structures: DFT study Sustainable Polymeric Composites from Epoxidized Linseed Oil and Recycled Zinc Oxide from Alkaline Batteries: Decomposition Temperature, Photoluminescence, and Dielectric Behavior Characterization of zinc oxide from spent alkaline batteries: photoluminescence and aspect ratio Synthesis and Characterization of Spherical ZnO Coatings from Zinc Primer for the Removal of Methylene Blue Hydrogen Production via Aqueous Glycerol Reforming Assisted by Ultrasound Using a Heterogeneous Catalyst. REN	331	· · · ·	REN
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Optical Devices: A Comparative Bioinspired Approach Structural and electronic properties of full and half-Heusler Co2VGa structures: DFT study Sustainable Polymeric Composites from Epoxidized Linseed Oil and Recycled Zinc Oxide from Alkaline Batteries: Decomposition Temperature, Photoluminescence, and Dielectric Behavior Characterization of zinc oxide from spent alkaline batteries: photoluminescence and aspect ratio Synthesis and Characterization of Spherical ZnO Coatings from Zinc Primer for the Removal of Methylene Blue Hydrogen Production via Aqueous Glycerol Reforming Assisted by Ultrasound Using a Heterogeneous Catalyst. REN	341	geometrizans), agave (Agave salmiana), nopal (Opuntia spinulifera)	ВІО
Sustainable Polymeric Composites from Epoxidized Linseed Oil and Recycled Zinc Oxide from Alkaline Batteries: Decomposition Temperature, Photoluminescence, and Dielectric Behavior Characterization of zinc oxide from spent alkaline batteries: photoluminescence and aspect ratio Synthesis and Characterization of Spherical ZnO Coatings from Zinc Primer for the Removal of Methylene Blue Hydrogen Production via Aqueous Glycerol Reforming Assisted by Ultrasound Using a Heterogeneous Catalyst.	347	, ,	СНМ
Recycled Zinc Oxide from Alkaline Batteries: Decomposition Temperature, Photoluminescence, and Dielectric Behavior Characterization of zinc oxide from spent alkaline batteries: photoluminescence and aspect ratio Synthesis and Characterization of Spherical ZnO Coatings from Zinc Primer for the Removal of Methylene Blue Hydrogen Production via Aqueous Glycerol Reforming Assisted by Ultrasound Using a Heterogeneous Catalyst. BIO REN REN	355	· · ·	TSM
photoluminescence and aspect ratio Synthesis and Characterization of Spherical ZnO Coatings from Zinc Primer for the Removal of Methylene Blue Hydrogen Production via Aqueous Glycerol Reforming Assisted by Ultrasound Using a Heterogeneous Catalyst. REN REN	361	Recycled Zinc Oxide from Alkaline Batteries: Decomposition	ВІО
Primer for the Removal of Methylene Blue Hydrogen Production via Aqueous Glycerol Reforming Assisted by Ultrasound Using a Heterogeneous Catalyst. REN REN	363	·	LP
Ultrasound Using a Heterogeneous Catalyst.	365	· ·	REN
377 Sensor design and simulation in Klayout SEM	373		REN
	377	Sensor design and simulation in Klayout	SEM

OBTAINING THERMOCHEMICAL PROPERTIES USING THERMAL AND CALORIMETRIC TECHNIQUES FOR A SUBSTRATE USED IN COMPOSTING "Design and development of a bioactive occlusal guard using 3D printing and photogrammetry" BIO	
1 3X3 1	
printing and priotogrammetry	
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From Quantum Theory to Oxide-Semiconductor Chemistry: The Power of X-ray Photoelectron Spectroscopy (XPS) SEM	
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415 MICROWAVE-ENHANCED PHYSICAL PROPERTIES OF BATH- DEPOSITED ZnO NANOFILMS NS	
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425 ALL-INORGANIC Sb^3+ ACTIVATED PHOSPHOR Cs_2CdBr_2Cl_2 WITH BROADBAND EMISSION	
427 Comparative study of the InAs QDs self-assembly on AlxGa1-xAs at different Al concentration.	
431 SELF-ORGANIZED METAL NANOPARTICLES ON SIO2 SURFACE NS NANOPATTERNS INDUCED BY MEV ION IMPLANTATION	
Influence of Plasma Dynamics and Substrate Temperature on the Growth and Properties of Bi₂S₃ Thin Films by PLD PLV	
437 Structural, Vibrational and Electronic Properties of α-Sulfur Based Nanosheet TSM	
Structural and Optical Characterization of p-InGaAsSb/n- InGaAsSb/n-GaSb Heterostructures Growth by Liquid Phase Epitaxy for Infrared Applications SEM	
Synthesis of Au Nanoparticles on TiO ₂ Thin Films by Pulsed Laser Ablation for Enhanced Photocatalytic Activity PLV	
445 Fabrication and characterization of III-V and graphene/III-V devices SEM	
447 Structure of Heavily Mn-Doped GaAs SEM	

449	Effects of field intensity, polarity reversal, and air agitation on the properties of ZnO thin films synthesized by electric field-assisted chemical bath deposition.	THF
451	Atomistic-level understanding of charge storage behavior in $\alpha\textsubscript{-}$ MnO2 nanostructures	TSM
453	Structural and electronic properties of high entropy thin film SrRuTiMnFeScO3: An experimental and theoretical approach	THF
455	PHYSICS-INFORMED MACHINE LEARNING FOR SPR BIOSENSORS.	NS
457	Lanthanide-Doped NaMgF₃ Perovskites for Optical Thermal Sensing; A Comparative Study of Hydrothermal and AACVD Methods.	LP
467	Evaluation of curcumin-functionalized iron magnetic nanoparticles on spermatogenesis in CD1 mice.	NS