

ID	Title
1	¿What kind of relationship are between electrical losses and rheological parameters such as loss factor and loss modulus? A point of view from polysaccharide films
2	Aluminium oxide ALD graphene encapsulated photodetectors
3	Analysis of the absorption and optical emission spectra of carbon dots obtained from the peels of two fruits at two stages of ripening
4	Analysis of the optical response of chromatographic fractions of carbon dots synthesized from plantain peel
5	Anisotropy and surface reconstruction effects of nanoporous nonpolar semiconductors: A first-principles study
6	Characterization of Graphene UV PhotoFETs with Aluminum Oxide Passivation
7	Computational Model for the Acoustic Evaluation of Onion (<i>Allium cepa</i>) and Quince (<i>Cydonia oblonga</i>)
8	Current vs. Voltage Characteristic in an Al _{0.1} In _{0.9} As/InAs _{0.09} N _{0.01} /Al _{0.1} In _{0.9} As Double-barrier Heterostructure
9	Densities in Bose-Einstein Condensates from Alkaline Atoms to Supersolid Systems.
10	Development and implementation of a longitudinal spin Seebeck effect measurement setup
11	Diseño y análisis de unidades de memorias tipo memristor basadas en nanotubos de TiO ₂
12	Effect of the Electrolyte Solvent on the Performance of Sulfur-Graphene Composite Cathodes of Lithium Sulfur Batteries: A Classical Molecular Dynamics Study
13	Electrochemical characterization of microbiological corrosion in Ni ₂ +xMn _{1-x} Ga alloys
14	Electronic spectrum of Ge-core/Si-shell nanowires determined by means of Atomic Effective Potential calculations
15	Energy analysis of a biomass gasification process through the integration of an optimized phenomenological model
16	Evaluation of the diffusion of heavy metals in aqueous medium on gold surfaces by means of classical molecular dynamics simulations
17	Exploring new 3D and 2D structures of TiO ₂ : through DFT
18	Ferroic order analysis for W(S _(1-x) Te _x) ₂ (1-δ) crystals
19	Fixing the Holes in Holes: On Optimizing and Scaling the Operation of Hot Hole Spin-Qubits
20	Germanium nanowires as acetone-adsorption medium for diabetes diagnosis
21	Gross-Pitaevskii equation: revealing the behavior of Bose-Einstein condensates
22	Impact of doping with mono and divacancies on the structural and electronic properties of SiC monolayer
23	Implementation of a low-cost anodizing process for obtaining nanoporous templates for nanowire growth
24	Non-linear Hall response in two dimensional PT symmetric systems
25	Optical Characterization of Graphene Field-Effect Transistors Modified with Porphyrin Molecules
26	Performance parameters of an SPR biosensor with 2D materials as a function of the chemical potential of graphene
27	Physical properties characterization of the CrI ₂ monolayer
28	Proximal and optical characterization of orange peels, plantain peels, and corn husks as precursors of fluorescent dots
29	Síntesis y caracterización de nanopartículas de Fe ₃ O ₄ Y BaO utilizando el extracto de la hoja de Azadirachta indica para aplicaciones medioambientales
30	Solid Solutions of Transition Metal Dichalcogenides for Thermoelectric Applications
31	SPR optical biosensor based on 2D materials for glucose detection
32	Study of the electronic transport and the thermoelectric effect in aperiodic gated phosphorene superlattices
33	Surface-Binding Molecular Multipods Strengthen the Halide Perovskite Lattice and Boost Luminescence
34	Synthesis and characterization of Bi ₂₅ FeO ₄₀ iron-sillenite at different calcination temperatures
35	Synthesis and characterization of carbon-base material and its application as soil amend ment
36	Theoretical Study of H ₂ and CO Adsorption on graphene supported Co ₁₃ and Fe ₁₃ Clusters

37	Thermoelectric properties in periodic and aperiodic magnetic silicene structures
38	Transport through a double quantum dot in the Pauli spin blockade regime
39	Nickel Catalysts for CO ₂ Methanation: A Green Synthesis Approach via Pulsed Laser Deposition
40	Nanomaterials in Agriculture: A Study on the Structural Properties of Titanium Dioxide, Zinc Oxide, and Zeolite Nanofertilizers

Friday, 25 October 2024

17:15 – 18:00

ID	Title
1	Ab initio studies of electronic and magnetic properties of XGeTe ₃ monolayers (X=Cr, Mn, Fe)
2	Angular dependence of ferromagnetic resonance in FeCo thin films
3	Anisotropic effects on ferrimagnetic FeCo alloy quasi-spherical nanoparticle: a Monte Carlo study
4	Anisotropy and surface reconstruction effects of nanoporous nonpolar semiconductors: A first-principles study
5	Computational modeling of the optical properties of metallic nanoparticles for potential agricultural applications
6	DFT determination of structural properties of molecules with potential use in sensors using Quantum ESPRESSO and AiiDA
7	Effect of Borax on electrical conductivity and structure of starch biofilms
8	Effect of Sm-doping process into the YIG slabs on structural and magnetic properties
9	Effects of Carbon doping on hexagonal Boron Nitride: A VCA study
10	Estimation of suitable upper-limits for temperature in stability comparisons between solid phases at high pressures: Study cases of carbon, oxygen, and fluorine
11	Estudio de la estabilidad en la dinámica no lineal para haces ópticos propagándose en una red stub
12	Estudio de las propiedades vibracionales de los dicalcogenuros de metales de transición WSe ₂ y VSe ₂
13	Estudio del Mecanismo del Magnetismo Inducido por Flúor en Grafeno - Study of the Mechanism of Fluorine-Induced Magnetism in Graphene
14	Exciting electronic phenomena in novel chirally magnetic antiperovskites
15	Ferroic orders analysis for MoSe ₂ and MoTe ₂ solid solutions
16	First hyperpolarizability of benzoxazole derivatives in the context of DFT (Density Functional Theory).
17	Gold Nanoparticles as Charge Carriers in Piezoelectric Cement-Based Composites
18	Heusler Alloys: Structural Features and Physical Properties Explored
19	Influence of non-hermitian potentials on the mobility problem of nonlinear beams
20	Luttinger/Fermi liquid mixing in one-dimensional quantum fluids
21	Modos no lineales localizados en una red Rhombic
22	Pearson correlation coefficient as a tool to identify the non-composite vortex states in a two-band superconducting slab
23	Physical-statistical model for impedance analysis of carbon nanotubes cement-based composites
24	Single and two-particles dynamics of spin-1 lattice bosons in presence of external periodic magnetic fields
25	Size-dependent superconducting state in Pb Island Nanostructures Grown on Si (111)
26	SrFeMoO thin slabs, properties and application areas
27	Study via EPR and Heat Capacity (HC) of a Zn _{0.95} Cr _{0.05} O sample prepared by the sol-gel method
28	Substrate dependence in the structural and magnetic properties of CoO thin films
29	Superconducting diode effect via ratchet effect
30	Superconductivity in trigonal γ -PtBi ₂
31	Synthesis and characterization of nanocrystalline ferrites from the Mn _{1-x} Zn _x Fe ₂ O ₄ SYSTEM (x = 0, 0.2, 0.4, 0.6, 0.8 and 1.0) obtained via hydrothermal process using Aloe Barbadensis Mill (Asphodelaceae) extract for the treatment of contaminated waters
32	Systematization for the World-Line Quantum Monte Carlo

33	Theoretical analysis of the optical properties of TiO ₂ nanoparticles using computational electromagnetism techniques
34	Theoretical and experimental study of the perovskite-type ferro-manganite La _{0.5} Ca _{0.5} Mn _{0.5} Fe _{0.5} O ₃
35	Tuning Magnetic and Semiconducting Properties of Cr-Doped CaTiO ₃ Perovskites for Advanced Spintronic Applications
36	Understanding noble gas incorporation in mantle minerals: an atomistic study
37	Using surface-facet transitions to tune the electronic spectrum of colloidal silicon quantum rods
38	Vortex matter of hybrid superconducting-mesoscopic heterostructures