

POSTER SESSION II

IN²UB INHOUSE MEETING 2025

Location: Martí I Franquès Hall of the Faculties of Chemistry and Physics UB.

Date: 10th July, 2025

Time: 14.25h – 15.20h

NanoMagnetics

P19 Design Of An Optomagnomechanical Crystal For The Investigation Of Novel Quantum States Of Matter

P20 Synthesizing SMM And/Or Magnetocoolant Rings By Slight Schiff-Base Tuning

P21 Magnetic Induced Transparency In Cavity-Magnon Polaritons

P22 A Triclinic Co(II)–Polyoxometalate Complex $(C_9H_{13}N_2O_2)_2[(Co(H_2O)_5)_2Temo_6O_{24}] \cdot 2H_2O$: Synthesis, Structure And SMM Properties

P23 Rayleigh-Jeans Condensation Of Magnons In An Optomagnomechanical System

P24 The Role Of Terahertz Vibrations In The Spin Relaxation Of Cerium-Based Metal-Organic Frameworks^[1]

P25 2D Materials: Metallic/Molecular Heterostructures For Spintronics Applications

P26 Orbital Currents Generated By Surface Acoustic Waves In FM/NM Bilayers

P27 Design Of Hydrogen-Bonded Supramolecular Switchable Magnetic Materials

P28 Exploring Structural Diversity In Lanthanide-Based Metal-Organic Frameworks For Advanced Functional Applications

P29 Stroboscopic Kerr Imaging Of Magnetoacoustic Waves In Ferromagnetic Thin Films

P30 Versatile Supramolecular Architectures As Host/Guest Systems

P31 Antiferromagnetism At The Nanoscale

P32 Spin Dynamics In Ag(II) Molecular Systems

P33 Biocatalysis And Photothermal Efficiency Using Semiconducting Nanoparticles

P34 Deep Learning For Magnetization Dynamics

P35 How Ligand Surroundings Affect The Coherence Of An Electron Spin Qubit

P36 Tunable Functionalization Of Host-Guest Supramolecular Assemblies Via Selective Metal Ion Employment

P37 Chiroptical Response Through Multipolar Plasmonic Modes In Twisted Triskelion Stacks

P38 Molecular Flexibility-Driven Spin-Crossover Modulation In A Single-Crystal Fe(II) Complex

P39 Electric Control Of Switching Fields In FM Thin Films Using Surface Acoustic Waves

P40 Study Of The Spin Dynamics Of A New Family Of Schiff Base Heterometallic Mn(V)-4f Complexes

NanosMat

P48 C-Bridged Diphosphanes With A Substituted Backbone

P49 Systematic Investigation Of Deposition And Thermal Treatment Parameters For Mo₂C Thin-Film HER Catalysts

P50 Supercapacitive Performance Of Electrodes Based On Graphene Nanowalls Anchored On Titanium-Mxene

P51 Nanostructured CNT@SiNW Hybrid Anodes For Next-Generation Lithium-Ion Batteries

P52 Ru/CNTs Prepared By Electroless Deposition For Heterogeneous Catalysis Application

P53 Magnetic Control Of Driven Colloids Dispersed In Liquid Crystals

P54 Exploring Structural–Photophysical Property Relationships In Gold(I)-Phosphine Complexes

P55 Tuning Photophysical Properties Of Au(I) Pillarplexes Through Anion Variation

P56 New Organometallic Precursors For Enantioselective Catalysis

P57 Inkjet Printing Of Metal Halide Perovskites: Linking Thin Film Formation To Photodetector Device Performance

P58 Electrodeposited Cu, Ni, Ru, And Their Binary/Ternary Alloys For Enhanced Electrocatalytic Reduction Of Levulinic Acid Into Value-Added Chemical Platforms

P59 WITHDRAWN