

09:00-09:30	Opening Ceremony
09:30-10:30	Oral Session1
10:30-11:00	Invited Talk 1: Maite Goiriena
11:00-11:30	Coffee Break
11:30-13:00	Oral Session 2
13:00-13:30	Invited Talk 2: Cristina Gila
13:30-14:45	Lunch
14:45-16:30	Oral Session 3
16:30-17:15	Poster Session & Coffee Break
17:15-17:25	Young Professionals, Spain (IEEE)
17:25-17:35	Students in Magnetism
17:35-18:00	Awards & Closing Ceremony



**2023**

**7<sup>th</sup> Young Researchers in Magnetism**  
**November 23<sup>rd</sup>, 2023, El Escorial (Madrid)**

09:00-09:30	Opening Ceremony
09:30-09:45	Oral presentation 01: Rubén Corcuera
09:45-10:00	Oral presentation 02: Eduardo Ordoqui
10:00-10:15	Oral presentation 03: Alejandra Guedeja
10:15-10:30	Oral presentation 04: Carlos Iglesias
10:30-11:00	Invited Talk 1: Maite Goiriena
11:00-11:30	Coffee Break
11:30-11:45	Oral presentation 05: Raúl López Martín
11:45-12:00	Oral presentation 06: Raquel Loriente
12:00-12:15	Oral presentation 07: Ana Isabel Jiménez Ramírez
12:15-12:30	Oral presentation 08: Pablo Martínez Outomuro
12:30-12:45	Oral presentation 09: Jason Daza
12:45-13:00	Oral presentation 10: Lorenzo Gallo
13:00-13:30	Invited Talk 2: Cristina Gila
13:30-14:45	Lunch
14:45-15:00	Oral presentation 11: Paul Gavriloaea
15:00-15:15	Oral presentation 12: Tatiana Escalante-Quiceno
15:15-15:30	Oral presentation 13: Francisco J. Vázquez-Pérez
15:30-15:45	Oral presentation 14: Isaac Royo
15:45-16:00	Oral presentation 15: Leyre Fraile
16:00-16:15	Oral presentation 16: Manuel Horcajo
16:15-16:30	Oral presentation 17: Pablo Palacios Alonso
16:30-17:15	Poster Session & Coffee Break
17:15-17:25	Young Professionals, Spain (IEEE)
17:25-17:35	Students in Magnetism
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# ORAL PRESENTATIONS

OP01	Spin Pumping and Detection in Yttrium Iron Garnet Thin Films Fabricated by Polymer Assisted Deposition. <b>Rubén Corcuera.</b>
OP02	Synthesis and pollutant degradation effectiveness of ternary Fe@C@TiO <sub>2</sub> nanocomposites. <b>Eduardo Ordoqui.</b>
OP03	Atomic resolution insights into in-situ heating and biasing effects in Bi-doped Cu nanowires for spintronics. <b>Alejandra Guedeja.</b>
OP04	Coercivity Evolution in FeNiPC Ribbons: A Precursor Analysis for Sustainable Permanent Magnet Development. <b>Carlos Iglesias.</b>
OP05	Non-Exchange Bias in Dense Binary Assemblies of Nanoparticles. <b>Raúl López.</b>
OP06	Anomalies in a Magnetostrictive Sensor based on Love Surface Acoustic Waves. <b>Raquel Loriente.</b>
OP07	Magnetization reversal processes in ferromagnetic nanowires modulated in geometry and composition. <b>Ana Isabel Jiménez Ramírez.</b>
OP08	Investigating the complex coexistence of magnetic interactions in Ni-doped TbCu <sub>2</sub> nanostructured alloys. <b>Pablo Martínez Outomuro.</b>
OP09	Understanding the Magnetic Behaviour of a Fe <sub>65</sub> Co <sub>35</sub> Soft Magnetic Alloy by Means of its Structural, Thermal and Magnetic Analysis. <b>Jason Daza.</b>
OP10	Magnetic Shape Memory Heuslers for Low-grade Heat Harvesting. <b>Lorenzo Gallo.</b>
OP11	All-optically driven domain-wall dynamics in an antiferromagnetic system. <b>Paul Gavriloea.</b>
OP12	Fe tips Grown by Focused Electron Beam Induced Deposition for high-resolution Magnetic Force Microscopy. <b>Tatiana Escalante-Quiceno.</b>
OP13	Soft magnetic actuators based on the pre-alignment of magnetic particles. <b>Francisco J. Vázquez-Pérez.</b>
OP14	Low frequency vibration harvester based on the levitation force between permanent magnets. <b>Isaac Royo.</b>
OP15	Manganese ferrite nanoparticles for the detection of biomolecules in lateral flow assays. <b>Leyre Fraile.</b>
OP16	Multifunctional platform for photothermal hyperthermia combined with luminescence nanothermometry probes. <b>Manuel Horcajo.</b>
OP17	Influence of nanoparticle diffusion on AC magnetization cycles : potential for sensing transduction. <b>Pablo Palacios Alonso.</b>



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## POSTER SESSION

P01	Formation of Micropatterned Hydrogels based on Magnetic Pickering Emulsions. <b>Alfredo Escribano Huesca.</b>
P02	Efficient Production of Printable Magnetic Filaments with Recycled Ferrite Cores. <b>Uxua Jiménez.</b>
P03	Fast and Reproducible Synthesis of Iron Oxide Nanoflowers by Microwave-assisted Heating. <b>Rafael Herrera Aquino.</b>
P04	Innovations in Strontium Ferrite: Nanostructuring Permanent Magnet Materials for a Sustainable Future. <b>Adrián Fernández Calzado.</b>
P05	Exploring the magnetocaloric effect on nanocrystalline melt spun $R_2Fe_{17}$ (R= Pr, Nd) ribbons. <b>José Luis Garrido.</b>
P06	Synthesis of permalloy nanoclusters using microwave-assisted aqueous method. <b>Antonio Santana Otero.</b>
P07	Production of Magnetic Nanoparticles by Recycling Industrial Steel Manufacturing Residues. <b>Cristina Montero Aguilar.</b>
P08	Carbon-supported magnetic nanoparticles for combined water decontamination purposes: Fabrication and Characterization. <b>Mona Fadel.</b>
P09	Enhancing the Particle Content in 3D-printed Ferromagnetic Objects by tuning the MnAlC / Hydrogel Precursor Inks. <b>Zaida Curbelo.</b>
P10	From lab to industry: Industrial development of coercivity in MnAlC alloys. <b>Jorge Vergara-Ortega.</b>
P11	Exploring Cobalt Ferrite Nanoparticles as Sustainable Alternatives to Rare-Earth-Based Permanent Magnets. <b>Deborah Liguori.</b>
P12	Potential of AC Magnetometry to Display Protein Conformational Changes. <b>Alejandro Venegas.</b>
P13	Towards the Standardization of Photothermal Measurements of Iron Oxide Nanoparticles in Two Biological Windows. <b>Daniel Arranz.</b>



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## POSTER SESSION

P14	Preparation of conductive nano-inks for sustainable electronics. <b>Belén Corrales.</b>
P15	Design of Magnetic Metal Organic Frameworks for the CO <sub>2</sub> Capture and Conversion under Magnetic Induction Heating. <b>Álvaro Gallo.</b>
P16	Theoretical analysis of the interaction between surface acoustic waves and deposited magnetostrictive layer in magnetic Love wave devices. <b>Juan Diego Aguilera.</b>
P17	Magnetoelastic resonators functionalized with Metal Organic Frameworks for humidity detection. <b>Beatriz Sisniega.</b>
P18	Exchange Bias Effect of Ni@(NiO, Ni(OH) <sub>2</sub> ) Core/Shell Nanowires Electrodeposited in Nanoporous Alumina Membranes. <b>Yolanda Álvarez.</b>
P19	Magnetization Reversal Process of Bi-modulated FeCo Cylindrical Nanowires. <b>Joao Fradet.</b>
P20	Pressure-tuned interactions in magnetically driven superconductor. <b>Daniel Margineda.</b>
P21	Synthesis, characterization, and study of the spin-polarization in 2-dimensional chiral hybrid organic-inorganic metal halides. <b>Hamida Gouadria.</b>
P22	High-Precision Magnetic Characterization with the Cryogenic S700XR SQUID Magnetometer. <b>Ahmed Sedda.</b>



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