

Poster Sessions

ICFPM19

Poster Presentations

Poster Session #1

Monday 27th May, 17:30–18:30 - Chairs: R.B. Goldfarb & M. Jaafar

Tuesday 28th May, 17:30–18:30 - Chairs: A. Labarta & D. Pohl

Asturias Hall (Sala Asturias)

Poster Code: P-01

Correlation study between Magnetic Properties of MNPs and MPI Signal

K. Yamauchi, K. Nomura, Y. Sakamoto, H. Inoue, T. Matsuda, S. Tonooka, S. Sato

Mitsubishi Electric Corp. (Japan)

Poster Code: P-02 - Poster pitch, Monday 27th May, 17:00–17:30

Superparamagnetic Nanoreactors as a Highly Efficient Adsorbent for Organic and Inorganic Pollutants Removal from Wastewater

A. Gallo-Cordova, M. Morales, E. Mazario

Instituto de Ciencia de Materiales de Madrid (Spain)

Poster Code: P-03

Pulsed optically pumped magnetometers: addressing optically pumped magnetometer dead time for magnetorelaxometry of magnetic nanoparticles

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Poster Code: P-04

Thermal noise magnetometry of magnetic nanoparticles

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Poster Code: P-05 - Poster pitch, Monday 27th May, 17:00–17:30

Iron oxide magnetic nano-needles with tunable magnetic properties

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Poster Code: P-06

Magnetic properties of Er-doped Fe₃O₄ nanoparticles studied by perturbed angular spectroscopy

E.L. Correa^{1,2}, B. Bosch-Santos¹, T.S.N. Sales², G.A. Cabrera-Pasca³, B.S. Correa², A.W. Carbonari², V.P. Oleshko¹,

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Poster Code: P-07

Challenges in the synthesis of hybrid nanostructures with magnetic and plasmonic properties

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Poster Code: P-08

Synthesis of perovskite oxides LaFeO₃ and LaCoO₃ of Nanoparticle and Bulk

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Poster Code: P-09

Magnetic shape memory effect in microsize samples of the Ni-Mn-Ga-Cu

A.V. Mashirov¹, A.V. Irzhak², D. Zhao³, J. Liu³, A.P. Kamantsev¹, E.T. Dilmieva¹, V.V. Koledov¹, V.G. Shavrov¹

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Poster Code: P-10

Synthesis and magnetic properties of cobalt ferrite nanoparticles containing Jahn-Teller Mn³⁺ cations

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Poster Code: P-11

Modes of Magnetisation and Hyperthermia in Ferrofluids

D. Clarke, **G. Vallejo-Fernandez**, K. O'Grady

Department of Physics, University of York (UK)

Poster Code: P-12 - Poster pitch, Monday 27th May, 17:00–17:30

Magnetotactic Bacteria as Magnetic Hyperthermia agents

D. Gandia^{1,3}, L. Gandiaras^{2,3}, A. Muela^{1,2}, J. Alonso^{1,4}, A. García Prieto^{1,5}, R. Das⁶, M.H. Phan⁶, H. Srikanth⁶, M.L. Fdez-Gubieda^{1,3}

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Poster Code: P-13 - Poster pitch, Monday 27th May, 17:00–17:30

Soft magnetic microwires suitable for magnetic hyperthermia

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Poster Code: P-14

Static and hysteretic properties of magnetic-nanoparticle assemblies studied through a rate-equation approach

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Poster Code: P-15

Tuning of RKKY interactions in nanoparticles of (Tb_{0.5}Gd_{0.5})Cu₂ and (Tb_{0.9}Y_{0.1})Cu₂

E.M. Jefremovas¹, M. de la Fuente Rodríguez¹, J. Alonso¹, J.I. Espeso¹, J. Rodríguez Fernández¹, D.P. Rojas², A. García Prieto³, A. García-Arribas⁴, M. Fernández-Gubieda⁴, L. Fernández Barquín¹

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Poster Code: P-16

Synthesis and characterization of FeCo high magnetization nanoparticles obtained by chemical routes

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Poster Code: P-17

Palmitic acid coated high-quality iron oxide Nanocubes

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Poster Code: P-18

Evolution of the magnetic structure and chemical composition in spinel zinc oxide nanoparticles as a result of high-temperature exposure.

A. Kmita, J. Żukrowski, J. Kuciakowski, A. Żywczak, M. Marciszko, M. Gajewska, D. Lachowicz, M. Sikora
AGH University of Science and Technology, Academic Centre for Materials and Nanotechnology, Krakow (Poland)

Poster Code: P-19 - Poster pitch, Monday 27th May, 17:00–17:30

Fundamentals of a novel methodology for magnetic detection of biomarkers

E Sanz-de Diego¹, L. Cremades-Jimeno¹, A. Aires⁴, D. Cabrera¹, E.J. Artés-Ibáñez¹, N. Silvestri², T. Pellegrino², A.L. Cortajarena^{1,3,4,5}, F.J. Teran^{1,3}

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Poster Code: P-20

Magnetization nutation induced by surface effects in nanomagnets

R. Bastardis, **F. Vernay**, H. Kachkachi

Laboratoire PROMES CNRS (UPR-8521) & Université de Perpignan Via Domitia (France)

Poster Code: P-21

Tailoring ferromagnetic order in cobalt ferrite nanoparticles through crystalline nanostructure

A. Fraile Rodríguez^{1,2}, **M. García del Muro**^{1,2}, C. Moya³, C. Piamonteze⁴, X. Batlle^{1,2}, A. Labarta^{1,2}

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Poster Code: P-22

Enhanced Ultrafast Nonlinear Optical Response in Ferrite Core/Shell Nanostructures with Excellent Optical Limiting Performance

A. López-Ortega¹, S. Perumbilavil², G.K. Tiwari³, T. Endo⁴, J. Nogués^{5,6}, R. Philip³

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Poster Code: P-23

Controlling the dominant magnetic relaxation mechanisms for magnetic hyperthermia in bimagnetic core-shell nanoparticles

F. Fabris¹, **E. Lima Jr.**¹, E. De Biasi¹, J. Lohr¹, H.E. Troiani², M. Vásquez Mansilla¹, T.E. Torres^{3,4}, R. Fernández Pacheco^{3,4}, M. Ibarra^{3,4,5}, G.F. Goya^{3,5}, R.D. Zysler¹, E.L. Winkler¹

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Poster Code: P-24

Tunable magnetic behavior in $AFeO_3$ - MFe_2O_4 ($A = Bi$ or La , $M = Co$ or Ni) nanocomposites

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Poster Code: P-25

On the magnetic interactions in nanometric $Tb(Cu,Ni)_2$ alloys

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Poster Code: P-26

Comparing Fe_3O_4 Nanoparticles supported on Microspheres as Magnetic Hyperthermia Inductors

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Poster Code: P-27

Magnetic ground states of Py nanotubes and rings

E. Josten¹, A. Kovács¹, F. Oertel², A. Glavic³, T. Jansen⁴, T.P. Almeida⁵, M. Charilaou⁶, A. Kákay⁷, T. Wessels¹, M. Langer³, J. Raabe³, D.E. Bürgler⁴, K. Höflich², R.E. Dunin-Borkowski¹

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Poster Code: P-28

Galvanic Replacement Onto Complex Metal-Oxide Nanoparticles: Impact of Water or Other Oxidizers in the Formation of Either Fully Dense Onion-like or Multicomponent Hollow MnO_x/FeO_x Structures

A. López-Ortega¹, A.G. Roca², P. Torruella³, S. Estradé³, F. Peiró³, J. Nogués^{2,4}

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Poster Code: P-29

Chemical and Magnetic Morphology of Core-Shell Nanospheres

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Poster Code: P-30 - Poster pitch, Monday 27th May, 17:00–17:30

In vitro hyperthermia study with Magnetotactic Bacteria

L. Gandarias^{1,2}, D. Gandia³, A. Garcia-Arribas^{1,3}, L. Fernandez Barquin⁴, J. Alonso^{3,4}, A. Garcia-Prieto^{3,5}, A. Muela^{2,3}, M.L. Fernandez-Gubieda^{1,3}

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Poster Code: P-31 - Poster pitch, Monday 27th May, 17:00–17:30

Assessment of the parameters behind photothermal therapy: from colloidal dispersion to cell internalization.

C. Lozano-Pedraza¹, E. Plaza-Mayoral¹, B. Sot¹, D. Cabrera¹, G. Salas¹, A. Espinosa¹, F.J. Terán^{1,2}

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Poster Code: P-32

Magnetic phase diagram of nanostructured zinc ferrite as a function of inversion degree δ

M.A. Cobos^{1,2}, P. de la Presa^{1,3}, I. Llorente², J.M. Alonso^{1,4}, A. García-Escorial², P. Marín^{1,3}, A. Hernando^{1,3}, J.A. Jiménez²

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Poster Code: P-33 - Poster pitch, Monday 27th May, 17:00–17:30

Microscopic parameters influencing the physical properties of magnetic nanoparticles applied in biomedicine

F. Brero¹, M. Basini², P. Arosio², C. Sangregorio³, C. Innocenti³, L. Bordonali¹, F. Orsini², T. Orlando⁴, M. Avolio¹, M. Francesca Casula⁵, M. Corti¹, M. Mariani¹, A. Lascialfari²

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Poster Code: P-34

Structures in Magnetic Fluid Under External Magnetic Fields

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Poster Code: P-35

Size Evolution of Non-Collinear Magnetism of Nanosized Cobalt Chromite

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Poster Session #2

Wednesday 29th May, 17:30–18:30 - Chairs: V. Rodionova & L.E. Hueso

Thursday 30th May, 16:45–17:45 - Chairs: S. Ammar & V. Novosad

Asturias Hall (Sala Asturias)

Poster Code: P-36

Magnetization reversal processes in arrays of multisegmented nanowires with topologically protected domain walls

C. Fernández-González^{1,2}, S. Ruiz-Gomez², A. Gudín¹, J.M. Diez^{1,3}, A. Mascaraque², P. Perna¹, J. Camarero^{1,3}, L. Pérez^{1,2}

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Poster Code: P-37

Structural and magnetic characterization of cobalt-doped ferrites prepared by the “Extended Lamer” synthesis approach

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Poster Code: P-38

In vivo thermal transient nanothermometry for early tumour detection and diagnosis

H.D.A. Santos^{1,2}, E. Ximendes^{1,2}, C. Jacinto², **D. Ortega**^{3,4}, I. Rubia-Rodríguez³, M. Iglesias de la Cruz^{1,6}, I. Chaves-Coira⁵, L. Monge^{1,6}, D. Jaque^{1,6}, N. Fernández^{1,6}

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Poster Code: P-39

The study of magnetic properties and composition of core-shell ferrite nanoparticles with squalane/dodecanoic acid layer

D. Lachowicz¹, A. Kmita¹, A. Bernasik², R. Wirecka¹, M. Gajewska¹, M. Sikora¹, J. Żukrowski², S. Zapotoczny³

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Poster Code: P-40

Magnetic classification in wet-mode: Proofs of concept, and applications

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Poster Code: P-41

Tailoring Size and Morphology in Fe_{3-x}M_xO₄ (M = Zn, Gd) Nanoparticles: Magnetic Characterization

M. Insausti¹, I. Castellanos¹, D. Iglesias¹, A. Barón¹, I. Rodrigo², I. Orue², I. Gil de Muro^{1,2}, L. Lezama¹

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Poster Code: P-42

Numerical analysis of Zn_{1-x}Cd_xS/SnS Heterojunction solar cell

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Poster Code: P-43

Microstructural morphological and magnetic properties of α -Fe₂O₃ nanostructures prepared by hydrothermal method

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Poster Code: P-44

Magnetic properties of ferrofluids made of iron oxide nanoflowers and role of the carrier fluid

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Poster Code: P-45

The fate of nanomaterials

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Poster Code: P-46

Multifunctional Nanoparticles for T₁-T₂ Dual Magnetic Resonance Imaging

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Poster Code: P-47

Synthesis of ferrofluids with CoFe₂O₄ nanoparticles in Ionic Liquids

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Poster Code: P-48

Effect of ball milling on the structural and magnetic properties of Ni-Mn-In-Co metamagnetic shape memory alloys

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Poster Code: P-49

Magnetic properties CoFe₂O₄/Fe₂O₃ and NiFe₂O₄/Fe₂O₃ core/shell particles

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Poster Code: P-50

An open, rapid and strong ElectroMagnetic Actuation system

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Poster Code: P-51

Magnetocrystalline and surface anisotropy in CoFe₂O₄ nanoparticles dispersed in silica matrix

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Poster Code: P-52

Radiotherapy enhancement with magnetically guided gold-coated nanoparticles

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Poster Code: P-53

Magnetic nanostructures for tissue engineering

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Poster Code: P-54 - Poster pitch, Tuesday 28th May, 17:00–17:30

Metamaterial based on magnetic microwires

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Poster Code: P-55

Correlation Between Physical Structure and Magnetic Anisotropy in a Magnetic Nanoparticle Colloid

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Poster Code: P-56

Self-assembly of iron oxide precursor micelles driven by magnetic stirring time in sol-gel coatings

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Poster Code: P-57

Dispersion of Magnetic Nanoparticles in Ionic Liquid

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Poster Code: P-58

Enhancement of magnetic lateral flow immunoassays signal by means of a magnetic field gradient

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Poster Code: P-59

Synthesis and characterization of nanoparticles based on carbonization of Ni-organic frameworks

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Poster Code: P-60 - Poster pitch, Tuesday 28th May, 17:00–17:30

Carbon-coated superparamagnetic nanoflowers as labels in lateral flow immunoassays

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Poster Code: P-61

Optimizing manganese iron oxide nanoparticles for magnetic hyperthermia treatment on glioblastoma cell line

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Poster Code: P-62

Magnetic targeting of adoptively transferred nanoparticle-loaded tumour-specific CD8⁺ T cells to the tumour microenvironment

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Poster Code: P-63 - Poster pitch, Tuesday 28th May, 17:00–17:30

Magnetocaloric effect in nanostructured R₂Fe₁₇ melt-spun ribbons

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Poster Code: P-64

Feasibility of Ciguatoxin-3C Detection Through Magnetic Immunoassays

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Poster Code: P-65

Synthesis of controlled size magnetic iron oxide starch nanoparticles

G. Gutiérrez¹, D. Morán¹, M. Salvador², A. Marefati³, M. Rayner³, B. Wiede⁴, J. Blanco², M. Rivas², M.C. Blanco-López⁵, **M. Matos**¹

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Poster Code: P-66 - Poster pitch, Tuesday 28th May, 17:00–17:30

Size and Interface Effects on chemically ordered FeRh magnetic nanoparticles prepared by MS-LECBD

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Poster Code: P-67

Magnetic properties of tetragonal SmFe_{12-x}Mo_x in bulk and melt-spun ribbons

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Poster Code: P-68 - Poster pitch, Tuesday 28th May, 17:00–17:30

Engineering swimmers for controlled-heat delivery in 3D-cell spheroids

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Poster Code: P-69 - Poster pitch, Tuesday 28th May, 17:00–17:30

Interface-driven exchange bias sign crossover in CoFe₂O₄-Cr₂O₃ nanocomposites

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Poster Code: P-70

Hybrid opto-magnetic nanostructures based on SPIONs and near-infrared emitting nanocrystals encapsulated in phospholipidic micelles

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Poster Code: P-71

Studying thermodynamic crossover in rock-salt oxide (MnO, CoO and NiO) nanoparticles by Raman spectroscopy

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