

MAGNET 2019

Messina, January 30th - February 1st, 2019

POSTERS

WEDNESDAY, JANUARY 30th, 2019

16.30
18.00 Poster & Coffee Session I - Chairs: **Lucia Del Bianco**, Università di Ferrara, **Vito Puliafito**, Università di Messina

- P1 **Gabriele Barrera**
Static and dynamic magnetic properties of mixed ferrite powders
- P2 **Elisabetta Agostinelli**
Synthesis of FerroFluids with Fe₃O₄ nanoparticles in Ionic Liquids
- P3 withdrawn
- P4 **Federico Spizzo**
Interplay between magnetic anisotropies in CoAu and Co films and antidot arrays
- P5 **Raffaele Silvani**
Straight motion of magnetic defects in Fe-N thin films with stripe domains
- P6 **Raffaele Silvani**
Spin waves and magnonic effects in thin FeN magnetic films with stripe domains structure
- P7 **Mariam Hassan**
Structural and magnetic properties of Mn₃O₄ films grown by chemical vapor deposition
- P8 **Francesca Casoli**
Enhanced magnetic anisotropy in Mn₃Ga thin films grown on LSAT
- P9 **G. Giannopoulos**
L₁₀-FeNi films on Au-Cu-Ni buffer-layer: a high-throughput combinatorial study
- P10 **Gianluca Gubbiotti**
Reconfigurable magnonic band structure in Py/Cu/Py nanowires
- P11 **Anna Giordano**
Studies on how to improve micromagnetics and spintronic computation with gpu-based compression algorithms
- P12 **Roberto Zivieri**
Statistical thermodynamic approach for the calculation of the entropy of a magnetic skyrmion
- P13 **Israa Medlej**
Control of the skyrmion Hall angle by combining spin-Hall effect, anisotropy gradient, breathing mode and in-plane field
- P14 **Daniele Gastaldo**
Effect of DMI on thermal stability in Pt/Co/AIO square dots
- P15 **Arianna Casiraghi**
Individual skyrmion manipulation by scanning probe microscopy in CoFeB/MgO multilayers
- P16 **Akshaykumar Salimath**
Skyrmion Dynamics in Bulk Antiferromagnets and Synthetic Antiferromagnets
- P17 **Silvia Tacchi**
Brillouin light scattering study of CoFeB/MgO/CoFeB magnetic tunnel junctions with perpendicular magnetic anisotropy
- P18 **Claudio Serpico**
Analytical study of broadband nonlinear ferromagnetic resonance in uniaxial nanoparticles
- P19 **Mritunjoy Prasad Ghosh**
Novel Gd³⁺ substituted Zn-Ni ferritenanoparticles: superparamagnetism and its correlation with structural and magnetic properties
- P20 **Rajendra Mohan**
Interfacial spins coupling and exchange anisotropy in core-shell MnFe₂O₄/α-Fe₂O₃ nanocomposite system
- P21 **Akash Kumar**
Determination of Spin-orbit torques in low-resistive mixed phase Ta using spin torque ferromagnetic resonance
- P22 **Asma Bouabca**
Half-metallic completely compensated ferrimagnets in Cr doped BaP

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THURSDAY, JANUARY 31st, 2019

- 16.00
17.30
- Poster & Coffee Session II - Chairs: **Ilaria Bergenti**, ISMN-CNR Bologna, **Massimiliano d'Aquino**, Università di Napoli "Parthenope"
- P1
Chiara Maccato
Magnetic properties of ϵ iron(III) oxide nanorod arrays functionalized with gold and copper(II) oxide
- P2
Oscar Iglesias
Change in the magnetic configurations of tubular nanostructures by tuning dipolar interactions
- P3
Alexander Omelyanchik
Surfaces effects and cationic distribution in ultra-small CoFe₂O₄ nanoparticles
- P4
M. Vasilakaki
Effect of Molecular Coating on Magnetic Properties of CoFe₂O₄ nanoparticles
- P5
B. Aslibeiki
Cobalt doped MnFe₂O₄ nanoparticles: magnetic anisotropy and interparticles interactions
- P6
Elisabetta Agostinelli
MAGnetic nanoparticle based liquid ENergy materials for Thermoelectric device Applications (MAGENTA)
- P7
Gaspere Varvaro
Effect of H⁺ irradiation on magneto-optical properties of Co-doped ZnO thin films
- P8
Carlo Appino
Prediction of energy loss in grain oriented laminations
- P9
S. Fabbrici
Tuning direct and inverse magnetocaloric effect in Ni-Mn-In Heuslers for room temperature magnetic refrigeration
- P10
Greta Cavazzini
Study and comparison of the magneto-structural properties of Ni-Mn based Heusler Alloys: bulk and sub-micron particles
- P11
Alessandro Sola
Experimental verification of the reciprocal relations for spin thermoelectric effects in a bulk YIG/Pt bilayer
- P12
Sundereswar Mathi Jaya
Tunnel magnetoresistance of magnetic tunnel transistors using nonequilibrium Green's function modeling
- P13
V.M.L. Durga Prasad Goli
Spin superfluid transport through frustrated spin systems
- P14
Ferdinando Milesi
Tmek: a magnetic lab-on-chip diagnostic test for malaria
- P15
Amanda Moyano
Superparamagnetic nanoparticles for rapid bioanalysis in magnetic lateral flow immunoassays
- P16
Lucia Del Bianco
Magnetic properties of ferrofluids made of iron oxide nanoflowers and role of the carrier fluid
- P17
Martina Basini
Magnetic nanoparticles: investigation of the effects of coating on the ¹H-NMR relaxation properties
- P18
Francesca Brero
Hadron Therapy and Magnetic Hyperthermia: a combined therapy for in-vitro Pancreatic Cancer Treatment
- P19
Dimitris Kechrakos
Skyrmions in cylindrical magnetic nanoshells with chiral interactions
- P20
Luis Sanchez-Tejerina
Micromagnetic analysis of antiferromagnet and ferrimagnet magnetization dynamic driven by spin currents
- P21
Alexandra Huxtable
XMCD-STXM Magnetic Imaging of Skyrmions with in-situ Hall Transport measurements in Pt/Co/Ir multilayer Hall discs
- P22
Erdem Riza
Thermodynamic geometry of Ising ferromagnet in an external magnetic field