

Tuesday, September 6th (h. 14:30)

POSTER SESSION P1

- P1-01 **ZnO/SBA-15 NANOCOMPOSITES FOR MID-TEMPERATURE REMOVAL OF H₂S: SYNTHESIS, PERFORMANCE AND REGENERATION STUDIES.**
A. Ardu, M. Mureddu, E. Rombi, G. Cutrufello, I. Ferino, A. Musinu, G. Piccaluga, and C. Cannas
Dipartimento di Scienze Chimiche, Università di Cagliari, S.S: 554 bivio per Sestu, 09042, Monserrato, Cagliari, Italy
- P1-02 **COLLOIDAL MAGNETIC MESOPOROUS SILICA NANOPARTICLES.**
F. Orrù, A. Ardu, A. Musinu, G. Piccaluga, and C. Cannas
Dipartimento di Scienze Chimiche, Università di Cagliari, S.S: 554 bivio per Sestu, 09042, Monserrato, Cagliari, Italy
- P1-03 **REALIZATION AND CHARACTERIZATION OF A MICRO-CANTILEVER SENSOR BASED ON MAGNETIC DIPOLARLY-COUPLED NANOSTRUCTURED MULTILAYERS FEATURING WIRELESS ACTUATION FOR LIQUID ENVIRONMENTS**
A. Chiolerio¹, I. Ferrante², C. Ricciardi², R. Castagna², A. Ricci², S. Marasso², P. Tiberto³, P. Allia²
¹Physics Department, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Torino, Italy;
²Materials Science and Chemical Engineering Department, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Torino, Italy; ³Electromagnetism Division, iNRiM, Strada delle Cacce 91, 10135 Torino, Italy
- P1-04 **FePt NANODOTS ARRAYS BY SELF-ASSEMBLING OF POLYSTYRENE NANOSPHERES**
P. Tiberto¹, L. Boarino¹, F. Celegato¹, M. Coisson¹, N. De Leo¹, F. Vinai¹, F. Albertini², F. Casoli², P. Ranzieri², P. Allia³
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- P1-05 **MAGNETISATION REVERSAL PROCESS OF FePt/Fe₃Pt COMPOSITE NANOSTRUCTURES FOR ULTRAHIGH-DENSITY MAGNETIC RECORDING**
F. Casoli, P. Lupo, L. Nasi, S. Fabbri, F. Bolzoni, R. Cabassi, F. Albertini
IMEM-CNR Viale Usberti 37/A 43124 Parma-Italy
- P1-06 **BALL MILLING SYTHESIZED MOFs FOR EFFECTIVE REMOVAL OF ORGANOSULFUR COMPOUNDS FROM LIQUID FUELS: SYNTHESIS AND CHARACTERIZATION.**
M. Pilloni¹, M. Pentimalli¹, S. Lai², F. Sini², F. Padella¹

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- P1-07 **LOW TEMPERATURE SYNTHESIS OF FePt L₁ NANOPARTICLES INTO SBA-15 NANOPORES.**
A. Capobianchi¹, G. Varvaro¹, D. Peddis², A. Ardu², E. Agostinelli¹ and C. Cannas²
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- P1-08 **MAGNETIC AND STRUCTURAL INVESTIGATION OF Fe₅₀Co₅₀ THIN FILMS ACROSS THE TRANSITION FROM IN-PLANE TO OUT-OF-PLANE ANISOTROPY**
M. Tamisari¹, G. Ausanio², V. Guidi¹, V. Iannotti², I. Neri¹, F. Ronconi¹, F. Spizzo¹, P. Vavassori^{1,3}
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- P1-09 **Co-NANOCATALYSTS FOR HYDROGEN PRODUCTION BY HYDROLYSIS OF NaBH₄**
R. Fernandes, N. Bazzanella, N. Patel, A. Miotello
Dipartimento di Fisica, Università degli Studi di Trento, I-38123 Povo Trento (Italy)
- P1-10 **NANOSTRUCTURED CERIA THIN FILMS PREPARED BY SOL-GEL DIP COATING: SYNTHESIS AND CHARACTERIZATION**
M.C. Ferrara, A.M. Laera, L. Pilloni¹, E. Piscopiello, S. Mazzarelli and L. Tapfer
ENEA, Technical Unit for Materials Technologies of Brindisi Research Centre, Strada Statale 7 "Appia" Km 706, I-72100 Brindisi, Italy; ¹ENEA, Technical Unit for Materials Technologies of Casaccia Research Centre Via Anguillarese, 301 -00123 S. Maria di Galeria (Rome), Italy.
- P1-11 **INFLUENCE OF SOL COMPOSITION ON PHOTOCATALYTIC ACTIVITY AND HYDROPHILIC PROPERTIES OF NANOCRYSTALLINE TITANIA THIN FILMS PREPARED BY SOL-GEL DIP COATING**
M.C. Ferrara, L. Pilloni¹, A. Mevoli, C. Blasi and L. Tapfer
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- P1-12 **FORMATION OF HOLLOW NANOPARTICLES THROUGH DIFFUSIVE PHASE TRANSITION ACROSS A MEMBRANE**
L. Pasquini¹, A. Montone,² E. Callini,¹ M. Vittori Antisari², E. Bonetti¹
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- P1-13 **MICROSTRUCTURAL EVOLUTION OF MgH₂ DURING REPEATED H₂ ABSORPTION-DESORPTION CYCLES.**
A. Montone, A. Aurora, D. Mirabile Gattia and M. Vittori Antisari
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