



Con il patrocinio di:

COMUNE DI FAVIGNANA

CONVEGNO
NAZIONALE
SULLA SCIENZA
E TECNOLOGIA
DEI MATERIALI

**X CONVEGNO NAZIONALE INSTM
SCIENZA E TECNOLOGIA DEI MATERIALI
28 Giugno – 1 Luglio, 2015
Tonnara Florio - Favignana (TP)**

Ke-Mat! Key Enabling Materials

I Materiali per l'Alimentazione, l'Ambiente, l'Energia, la Salute, i Trasporti

Elenco Poster

Nr.	Nome	Cognome	Titolo	Autori
P01	Erika	Amore	Synthesis and characterization of pegylated graphene oxide for sorafenib modified release	E. Amore, M.L. Bondi, C. Botto, V. Vincenti, A. Maio, D. Giallombardo, F. Lopresti, R. Scaffaro
P02	Silvia	Barbi	Recycling of yttria-stabilized ZrO ₂ (YSZ) for ceramic tile glazes and pigments	S. Barbi, R. Casini, C. Siligardi, T. Manfredini
P03	Giorgio	Baudana	γ -TiAl alloys produced by Electron Beam Melting for aerospace and automotive applications	G. Baudana, S. Biamino, P. Fino
P04	Giulia	Bevini	Porous glasses by using salt as temporary space holder	G. Bevini, C. Mugoni, C. Siligardi, T. Manfredini
P05	Alessandra	Bianco	Preliminary systematic investigation on the uptake of titania nanoparticles in soil-plant system	S. Detti, E. Tassi, R. Pini, F. R. Lamastra, A. Bianco
P06	Luigi	Botta	Arundo Donax particles as reinforcement for PLA based composites	L. Botta, V. Fiore, A. Valenza, R. Scaffaro

Nr.	Nome	Cognome	Titolo	Autori
P07	Chiara	Botto	Cationic solid lipid nanoparticles complexed with genetic material for liver tumor treatment	C. Botto, M. L. Bondi, E. Amore, V. Vincenti, M.R. Emma, G. Augello, G. Giammona, M. Cervello
P08	Alice	Botturi	Light responsive nanostructured systems for drug delivery	A. Botturi, M. Pedroni, A. Speghini
P09	Mario	Bragaglia	Corrosion of ceramic particle reinforced metal matrix composites (MMC)	M. Bragaglia, G. Montesperelli, R. Montanari
P10	Valentina	Cabras	Mechanosynthesis Study of [Ni((EtO) ₂ PS ₂) ₂ ·bipy] Layered Coordination Polymer	V. Cabras, M. Pilloni, A. Scano, R. Lai, G. Ennas, M.C. Aragoni
P11	Ilaria	Cacciotti	Innovative composites based on compostable polymers and natural fillers for food packaging	I. Cacciotti, F. Nanni
P12	Chiara Emma	Campiglio	Electrospinning of aligned nanofiber fibrinogen structures from acidic solution	C. E. Campiglio, C. Marcolina, L. Draghi
P13	Angela	Candrea	Gold Silica Nanoparticles: versatile synthesis for a versatile material	A. Candrea, L. Ricciardi, M. La Deda
P14	Eugenio	Caponetti	Preparation and physico-chemical characterization of biocomposites based on cellulose derivatives and MCM-41	M. L. Saladino, V. Bertolino, P. Colomba, E. Caponetti
P15	Sabrina Carola	Carroccio	Degradation of PA 11 nanocomposites: the chemical point of view	S. C. Carroccio, G. Curcuruto, G. Filippone, E. Passaglia, N. Tz. Dintcheva, C. Gambarotti
P16	Manuela	Ceraulo	Thermomechanical degradation of a polypropylene/graphene nanocomposite	M. Ceraulo, M.C. Mistretta, G. Cinà, F.P. La Mantia
P17	Valeria	Cherubini	Polyetherimide based nanocomposited for aerospace applications	M. Rinaldi, V. Cherubini, V. Massarelli, V. Canala, F. Nanni

Nr.	Nome	Cognome	Titolo	Autori
P18	Clara	Chiappara	The effects of TiO ₂ trap sites on the instability of dye sensitized solar cells	C. Chiappara, V. Figà, G. Di Marco, G. Calogero, B. Pignataro, F. Principato
P19	Patrizia	Cinelli	Sustainable biocomposites based on polymers and natural fibers from renewable resources	P. Cinelli, A. Lazzeri, C. del Monte, S. Bronco
P20	Valeria	Corinaldesi	Study of fibre-reinforced cement-based composites containing expansive agent	A. Nardinocchi, V. Corinaldese
P21	Daniele	De Felicis	Sub-micrometrical 3D patterning for large areas: filling the gap	D. De Felicis, E. Bemporad
P22	Claudio	De Rosa	Structure and mechanical properties of copolymers of syndiotactic polypropylene with branched monomers	M. Scoti, C. De Rosa, F. Auriemma
P23	Barbara	Del Curto	Selection Tool for the Use of Functional Materials	E. Lefebvre, J. Faucheu, M.P. Pedferri, D. Delafosse, B. Del Curto
P24	Luca Angelo	Di Landro	Detection of voids in structural composite laminates and evaluation of their effects over material performances	L. Di Landro, A. Montalto, P. Bettini, S. Guerra, F. Montagnoli, M. Rigamonti
P25	Maria Vittoria	Diamanti	Development and characterization of photocatalytic anodic TiO ₂ films for environmental remediation	D. Prando, M.V. Diamanti, M.P. Pedferri
P26	Giovanni	Filippone	Immiscible polymer blends having plate-like nanoparticles adsorbed at the liquid-liquid interface: dynamics of filler assembly and morphological implications	G. Filippone, M. Salzano de Luna, A. Causa, D. Acierno
P27	Federico	Galli	Polyhydroxyalkanoate extraction from biomass using environmentally friendly technique	F. Galli, S. Capelli, C. Pirola, C.L. Bianchi
P28	Serena	Gentiluomo	TiO ₂ coated Pd membranes for propane dehydrogenation	S. Gentiluomo, S. Abate, G. Centi, S. Perathoner, R. Passalacqua, M.G. Salvaggio

Nr.	Nome	Cognome	Titolo	Autori
P29	Gerardus	Janszen	Ballistic response of self-healing polymers and components	G. Janszen, A. Galbiati, G. Sala, A. M. Grande, L. Di Landro
P30	Francesco Paolo	La Mantia	Photostabilization of crosslinked EVA as encapsulant for photovoltaic modules	M. Ceraulo, P. Koci, F.P. La Mantia, V. Malatesta
P31	Mariangela	Lombardi	Development of composite piezoelectric materials for energy harvesting	M. Lombardi, M. Di Donato, F. Pirri, L. Montanaro
P32	Francesco	Lopresti	Bio-polymeric based sponges for oily waste recovery	F. Lopresti, D. Gianlombardo, R. Scaffaro
P33	Sergio	Lorenzi	Evaluation of corrosion behavior of austenitic stainless steels during conversion of waste to biofuel	M. Cabrini, S. Lorenzi, T. Pastore, S. Pellegrini, M. Burattini, R. Miglio
P34	Luca	Lusvarghi	Wear behaviour of WC-based hardmetal coatings by the High Velocity Air Fuel (HVOF) process	G. Bolelli, L. Lusvarghi, P. Sassatelli, C. Lyphout, K. Sato
P35	Mario	Maggio	Graphite and graphene oxide paper	M. Maggio, M. R. Acocella, M. Mauro, G. Guerra
P36	Lorenzo	Malavasi	Sputtering deposition of CuO and Fe ₂ O ₃ thin films for hydrogen photogeneration	G.A. Artioli, A. Mancini, V. Gomba, M.C. Quattrini, E. Quartarone, P. Fornasiero, L. Malavasi
P37	Norma	Mallegni	New eco-composites based on Poly(lactic acid) (PLA) for automotive applications	V. Gigante, N. Mallegni, I. Anguillesi, M.B. Coltelli, A. Lazzeri

Nr.	Nome	Cognome	Titolo	Autori
P38	Salvatore	Mannino	Interlaminar electrospun thermoplastic veils for advanced composites: pro and cons	G. Cicala, A. Latteri, S. Mannino, G. Ognibene, F. Scarpa
P39	Mario	Marchetti	Microwave characterization of bricklaying materials for non-destructive evaluation of restoring treatment effectiveness	R. Pastore, D. Micheli, A. Delfini, M. Marchetti
P40	Francesco	Marra	Production and characterization of carbon-phenolic ablative materials modified with nano-fillers	F. Marra, J. Tirillò, G. Pulci, F. Sarasini, L. Paglia, V. Genova, T. Valente
P41	Saveria	Monosi	Super absorbent Polymer as an internal curing agent for reducing early-shrinkage of traditional and high performance concretes.	S. Monosi, D. Forconi, M. Manieri, M. Francolini
P42	Giampiero	Montesperelli	Cerium doped titania coatings at low temperature for corrosion protection of the AA6082 alloy	S. Mori, F.R. Lamastra, G. Montesperelli
P43	Alessandro	Nardinocchi	Study of plasters containing organic particles for sustainable and energy-efficient building	V. Corinaldesi, A. Nardinocchi
P44	Davide	Nocita	Wear resistance of CF/UHMWPE biomaterials obtained by different mixing methods	S. Yousef, A. Visco, G. Galtieri, D. Nocita
P45	Giulia	Ognibene	Functional Electrospun Membrane	G. Ognibene, A. Latteri, M.E. Fragalà, S. Mannino, G. Cicala
P46	Elisa	Padovano	Hybrid laminates for aerospace applications.	E. Padovano, C. Badini, S. Biamino, M. Pavese, P. Fino
P47	Fabiola	Pantò	Methanation of carbon dioxide over Ni-Fe/based $Ce_{0,9}Gd_{0,1}O_2$ catalysts	F. Pantò, P. Frontera, M. Lo Faro, M. Ferraro, P.L. Antonucci
P48	Antonella	Patti	Dispersion of carbon nanotubes in polypropylene: a comparative investigation by optical microscopy and terahertz time-domain spectroscopy	A. Patti, R. Casini, G. Papari, A. Andreone, D. Acierno, P. Russo

Nr.	Nome	Cognome	Titolo	Autori
P49	Renzo	Pepi	Full Thermo-Physical characterisation of a single disc of a ceramic sample	R. Pepi, M. Coletti, H. Wang
P50	Agnese	Piselli	Materials selection tools in professional appliances: hypothesis to estimate materials' performance and impact on industrial processes	A. Piselli, M. Basso, M. Simonato, R. Furlanetto, B. Del Curto, L. De Nardo
P51	Sara	Ridolfi	Human Centred Design of engineered surfaces and coatings	S. Ridolfi, R. Suriano, M. Ajovalasit, M. Levia, S. Turri
P52	Gabriella	Rossi	Multilayer Barrier Films for the Encapsulation of Photovoltaic Cells	G. Rossi, P. Scarfato, L. Incarnato
P53	Gabriella	Roventi	Zn-ZrO ₂ nanocomposite coatings obtained by electrodeposition	G. Roventi, T. Bellezze, R. Fratesi
P54	Pietro	Russo	Processability of polypropylene/intumescent flame retardant/sepiolite systems	P. Russo, S. Pappalardo, D. Acierno
P55	Valentina	Senatore	Bio-nanocomposites based on pectins and halloysite nanotubes loaded with antimicrobials for food packaging applications	V. Senatore, G. Gorrasi
P56	Roberta	Sessoli	Torque magnetometry to investigate the growth of ultra-thin evaporated molecular films	M. Serri, M. Perfetti, M. Mannini, D. Rovai, R. Sessoli
P57	Fiorenza	Sutera	Parameters optimization in porous scaffold fabrication process based on Taguchi method and ANOVA	F. Sutera, F. Lopresti, F.P. La Mantia, R. Scaffaro
P58	Francesca	Tittarelli	Effect of beta and gamma ray sterilization on the properties of polymeric materials for biomedical applications	F. Tittarelli, C. Conti, O. Favoni, A. Mazzoli, T. Bellezze
P59	Daniele	Ugues	Study of the interface between the capsule and the consolidating powder mass during HIPING of Ni superalloy	E. Bassini, D. Ugues, V. Vola, R. Ghisleni, B. Picqué, G. Vallillo, S. Biamino
P60	Annamaria	Visco	Study of selective absorption of oil/water and of mechanical properties of polyurethane foams for oil spill recovery	A. Visco, A. Pistone, D. Iannazzo, R. Montanini, D. Nocita, G. Galtieri, A. Quattrocchi