



Dottorato di Ricerca in Scienza e Tecnologia dei Materiali

SEMINARI DI FINE ANNO – 2024

39° Ciclo – Ammissione al 2° anno

24 settembre, ore 14.30 – 16:00, presso IMEM - POSTER SESSION

Istruzioni: presentazione di poster in formato A0. Sessione di durata 90 minuti.

Cognome	Nome	Titolo Poster
DEDOLA	MANUEL	On the Effect of Size on the Kinetic Reaction in Solution
LEGROTTAGLIE	GIUSEPPE	Innovative surface treatments for improved mechanical resistance and chemical stability of pharmaceutical glass containers
VENTURELLI	SARA	Synthesis and Characterization of Two-stations One-gate Calix[6]arene based Oriented Rotaxane Isomers
MIGLIOLI	FRANCESCA	Compatibilization of polyolefins for food packaging applications via associative CANs
ZANGRANDI	ALBERTO	Synthesis and characterization of hierarchically porous pillar[5]arene-based polynorbornanes for gas separation membranes
FUSACCHIA	CAMILLA	Calcium phosphate nanoparticles as inhalable therapeutic system for the cardio-enriched delivery of peptides
DI LENA	DENISE	A TNF-α-based DNA Nanoswitch for Adalimumab and Infliximab Bioavailability Monitoring
DE BELLIS	LAURA	High-efficiency sintering of non-oxide ceramics based on SiC, TiB ₂ , B ₄ C for applications in severe environments
CENCI	GLORIA	Functionalized Nanomaterial Based on WS ₂ and Au-Nanoparticles Activated by Low-Energy X-Rays for Antitumoral Therapy
AMADORI	SARA	Combining nanotechnology with marine resources: microalgae/TiO ₂ for heavy metal sorption and Hallachrome/Ag for antimicrobial agents
D'ONOFRIO	ILENIA	Design and fabrication of advanced polymeric systems for drug delivery and controlled release

NOTA: sessione riservata a chi finisce l'anno il 31/10



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Dottorato di Ricerca in Scienza e Tecnologia dei Materiali

25 settembre, ore 16.20-17.00, aula Maxwell, plesso Fisico

Sessione di recupero per dottorandi in missione o all'estero il 24 settembre.

Istruzioni: presentazione orale, in lingua inglese, di durata 10 minuti, incluse le domande.

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16.20	BORMETTI	MARCO	X-ray promoted PDT using hydrophilic hybrid nanosystems to treat deep-seated tumors
16.30	RAGNOLI	LEONARDO	Exploring possible applications for novel poly-ethylene based ionomers (remoto)
16.40	MARCHIONI	MARIA CHIARA	In situ foaming of sludges deriving from silicon wafer production by alkali activation (remoto)
16.50	ZANARDI	BARTOLOMEO	Fibre reinforced ceramic matrix composites for aerospace applications (remoto)



Dottorato di Ricerca in Scienza e Tecnologia dei Materiali

38° Ciclo – Ammissione al 3° anno

Istruzioni: presentazione orale, in lingua inglese (20 minuti, incluse le domande).

25 settembre, ore 14.30, Aula Maxwell, plesso Fisico

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14.30	Capelli	Luca	Sensing and Processing of Specific Target Proteins Using DNA Nanotechnology in Tandem with CRISPR-Cas12a (remoto)
14.50	Esposito	Fiorenza	CVD Growth and Transfer Techniques of 2D-MoS ₂ for Heterostructure Fabrication
15.10	Garulli	Giovanni	Thermomagnetic materials and devices for harvesting of waste heat
15.30	Ghribi	Salem	Engineered calcium phosphates nanoparticles for the smart release of macro and micro-nutrient to plants (remoto)
15.50	Liboà	Aris	Sustainable Drug Delivery Solutions and Sensing Technologies for Nutrition and Health (remoto)

26 settembre, ore 14.30, Aula Maxwell, plesso Fisico

https://teams.microsoft.com/l/meetup-join/19%3a7RblTawXk9tDAJKlrdUp_Hc2fUCBOeGyy2a7V4E0ei81%40thread.tacv2/1726212300432?context=%7b%22Tid%22%3a%22bb064bc5-b7a8-41ec-babe-d7beb3faeb1c%22%2c%22Oid%22%3a%22ff5d7b2b-dd34-43b2-87a6-4119b0d4e738%22%7d

14.30	Vicini	Valentina	Al alloys sorting and space dosimetry with CdZnTe detectors and Al
14.50	Nicolella Gentile	Rosita	Decorated Magnetic Nanoparticles with Macrocycles for Biomarker Recognition in Epigenetics - Design and Synthesis of Mechanophores for Self-Diagnostic CAN (remoto)
15.10	Ribezzi	Erika	Novel strategies for the production of secondary packaging from cosmetic waste
15.30	Vespignani	Maurizio	Eco-design of nano-structured phases for the removal of new and emerging water and food pollutants

15.50 – 16.00 Pausa

16.00	Soccio	Alberto	Development of photoelectrodes based on different perovskite materials for energy applications
16.20	Milani	Monica	Supramolecular topological adhesion enhances delamination resistance in CFRPs
16.40	El Mouzahim	Mouad	Innovative Approaches to Sustainable Materials: Harnessing Physical Interactions for Environmental Applications (remoto)

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Dottorato di Ricerca in Scienza e Tecnologia dei Materiali

37° ciclo – Ammissione all'esame finale

Istruzioni: presentazione orale, in lingua inglese, della durata di 30 minuti incluse le domande.

1° ottobre, ore 14.30, Aula Maxwell, plesso Fisico

https://teams.microsoft.com/l/meetup-join/19%3a7RblTawXk9tDAJKlrdUp_Hc2fUCBOeGyy2a7V4E0ei81%40thread.tacv2/1726213007320?context=%7b%22Id%22%3a%22bb064bc5-b7a8-41ec-babe-d7beb3faeb1c%22%2c%22Oid%22%3a%22ff5d7b2b-dd34-43b2-87a6-4119b0d4e738%22%7d

Orario	Cognome	Nome	Titolo
14.30	Sacchi	Anna	Control of electrical and structural properties of Ga ₂ O ₃ epitaxial thin films
15.00	Vezzoni	Vincenzo	Laser-induced graphene for electrochemical sensors and energy storage devices
15.30	Florio	Dario	Study of Metal-Induced Crystallization mechanisms on amorphous SiO ₂
16:00 – 16.15 pausa			
16.15	Gallo	Lorenzo	Magnetic Heusler and High Entropy Alloys for Low-grade Heat Harvesting and Magnetic Refrigeration
16.45	Del Canale	Elena	Mechanochemistry x PV: An innovative playground for solar cells by green and low-cost methods
17.15	Mattei	Francesco	Hybrid heterojunctions between Ga ₂ O ₃ and organic semiconductors for UV-C photodetection (38° ciclo)

2 ottobre, ore 14.30, Aula Maxwell, plesso Fisico

https://teams.microsoft.com/l/meetup-join/19%3a7RblTawXk9tDAJKlrdUp_Hc2fUCBOeGyy2a7V4E0ei81%40thread.tacv2/1726213007320?context=%7b%22Id%22%3a%22bb064bc5-b7a8-41ec-babe-d7beb3faeb1c%22%2c%22Oid%22%3a%22ff5d7b2b-dd34-43b2-87a6-4119b0d4e738%22%7d

14.30	Tosi	Eloisa	Zwitterionic Calixarenes and PEG-Chains Interact with Artificial Membranes of Gram-Negative Bacteria
15.00	Torri	Alessandro	Self-diagnostic reprocessable covalent adaptable networks
15.30	Pastore	Tiziana	Study of the surface quality of glass containers to increase their mechanical resistance
16:00 – 16.15 pausa			
16.15	Mancini	Federica	Development of nanoparticle-based materials for biomedical applications
16.45	Bernardoni	Sara	Bioactive matrices for the healing and regeneration of infected tissues
17.15	Baccini	Caterina	Supramolecular systems for advanced applications: from calix[6]arene-encapsulated dyes to electrochemical studies of interlocked structures

NOTA: sessione riservata a chi finisce l'anno il 31/10