

Dottorato di Ricerca in Scienza e Tecnologia dei Materiali

SEMINARI DI FINE ANNO – 2025

40° Ciclo – Ammissione al 2° anno

6 ottobre 2025, ore 15.00 – 16:30, presso IMEM - POSTER SESSION

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

Cognome	Nome	Titolo Poster
Berto	Alessandro	Multifunctional Calixarene Derivatives for Nucleic Acids Delivery
Cicconi	Giuditta	Metalorganic Vapour Phase Epitaxy (MOVPE) Growth and Characterization of r-GeO ₂ Thin Films for Power Electronics Applications
Daugaard	Ingrid Adelaide	Hydrogen bonding strategy for reprocessable partially hydrolyzed EVA
Del Basso	Salvatore	On the origin of spontaneous electrical oscillations in a minimal peptide assembly
Gulotta	Pierluigi	Ultrasensitive detection of biomarkers via DNA strand displacement and host-guest chemistry
Raghavan	Dharshini	Design and Development of Biosensing Electrochemical Platforms Incorporating Nanoelectrode Arrays (NEAs)
Testa	Riccardo	Assessing MIL-53(Al) and derivatives as dynamic crosslinkers in MOF/polymer composites
Vicinelli	Gaia	Multilayer antimicrobial biomedical devices for the treatment of chronic wounds: from disinfection to dermal tissue regeneration.

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

*Dottorato di Ricerca in Scienza e Tecnologia dei Materiali***39° Ciclo – Ammissione al 3° anno****Mercoledì 8 ottobre, ore 14.30 – 17:30**

AULA MAXWELL, Plesso Fisico, Università di Parma

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

	Cognome	Nome	Titolo
14.30	Dedola	Manuel	Nanoparticles in Motion: Modeling, Materials and Applications
14.50	Legrottoglie	Giuseppe	Innovative surface treatments for improved mechanical resistance and chemical stability of pharmaceutical glass containers
15.10	Miglioli	Francesca	Hydrogen bonds as an effective tool for compatibilization of immiscible polymers
15.30	Ragnoli	Leonardo	LDPE based ionomers: new possible structures and new applications (remote)
Break			
16.20	Di Lena	Denise	Programmable Immunodiagnostics Harnessing DNA-based Chemical Proximity (remote)
16.40	Amadori	Sara	Advanced Adsorbent and Antibacterial Materials for Wastewater Purification
17.00	Zangrandi	Alberto	Synthesis and characterization of hierarchically porous pillar[5]arene-based polynorbornanes for gas separation membranes (remote)

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

Dottorato di Ricerca in Scienza e Tecnologia dei Materiali

Lunedì 13 ottobre, ore 14.30-17.30

AULA NEWTON, Plesso Fisico, Università di Parma

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

	Cognome	Nome	Titolo
14.30	Bormetti	Marco	X-ray promoted PDT using hydrophilic hybrid nanosystems to treat deep-seated tumors
14.50	Marchioni	Maria chiara	Development and Comprehensive Characterization of Sludge-Based Foams (remote)
15.10	Zanardi	Bartolomeo	Fibre reinforced ceramic matrix composites for aerospace applications
15.30	Fusacchia	Camilla	Calcium phosphate nanoparticles as a therapeutic system for the delivery of small interfering RNA (remote)
15.50	D'Onofrio	Ilenia	Design and Fabrication of Advanced Polymeric Systems for Drug Delivery and Controlled Release
Break			
16.30	De Bellis	Laura	Sintering and characterization of ceramic bulks based on SiC and TiB ₂ and B ₄ C for applications in severe environments (remote)
16.50	Cenci	Gloria	Functionalized Nanomaterial Based on WS ₂ and Au-Nanoparticles Activated by Low-Energy X-Rays for Antitumoral Therapy
17.10	Venturelli	Sara	Synthesis and Characterization of Two-stations One-gate Calix[6]arene based Oriented Rotaxane Isomers (remote)
17.30	Bedogni	Matteo	Materiali molecolari per energia ed ambiente (40° ciclo, 10 minuti)

*Dottorato di Ricerca in Scienza e Tecnologia dei Materiali***38° Ciclo – Ammissione all'esame finale****Mercoledì 15 ottobre, ore 14.30 – 18:30****AULA MAXWELL, Plesso Fisico, Università di Parma**[Seminari di Dottorato - Scienza dei Materiali](#) | [Partecipazione alla riunione](#) | [Microsoft Teams](#)**Istruzioni: presentazione orale, in lingua inglese (30 minuti, incluse le domande).**

14.30	Milani	Monica	Supramolecular topological adhesion enhances delamination resistance in CFRPs
15.00	Garulli	Giovanni	Thermomagnetic materials and devices for harvesting of waste heat
15.30	Liboà	Aris	Sustainable Drug Delivery Solutions and Sensing Technologies for Nutrition and Health
Break			
16.30	Ribezzi	Erika	An integrated approach based on high-resolution mass spectrometry for the determination of leachable substances from cosmetic packaging.
17.00	Vespignani	Maurizio	Eco-design of nano-structured phases for the removal of new and emerging water and food pollutants
17.30	Mattei	Francesco	Hybrid heterojunctions between Ga ₂ O ₃ and organic semiconductors for UV-C photodetection

Dottorato di Ricerca in Scienza e Tecnologia dei Materiali

Giovedì 16 ottobre, ore 14.30 – 18:00

AULA NEWTON, Plesso Fisico, Università di Parma

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Istruzioni: presentazione orale, in lingua inglese (30 minuti, incluse le domande).

14.30	Vicini	Valentina	AI-Enhanced CZT Detectors for Radionuclides Identification, Material Sorting and Space Dosimetry
15.00	Nicolella Gentile	Rosita	Decorated Magnetic Nanoparticles with Macrocycles for Biomarker Recognition in Epigenetics - Design and Synthesis of Mechanophores for Self-Diagnostic CAN
15.30	Ghribi	Salem	Sustainable Calcium Phosphate Nanoparticles for Controlled Nutrients Release in Agriculture
16.00	Capelli	Luca	Expanding CRISPR-Cas systems for Protein-Responsive and Multiplexed Sensing Platforms
Break			
16.50	Soccio	Alberto	Design and evaluation of heterojunction photoelectrodes for solar fuel production via Photoelectrochemical Cells (PECs)
17.20	El Mouzahim	Mouad	Designing New Sustainable Materials through Dynamic Bonds and Supramolecular Strategies
17.50	Esposito	Fiorenza	CVD Growth and Integration of 2D MoS ₂ for Advanced Heterostructures (remote)