PhD Program in Catalysis

PhD students enrolled in the XL cycle *A.A. 2024-2025*

CURRICULUM	NAME	PROJECT AND TUTOR/S	MAIN PLACE OF WORK
CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**ARNESI RITA**	Metal organic frameworks for direct air capture of CO2 Prof. Gloria Berlier (UNITO) Prof. Silvia Bordiga (UNITO)	UNITO
CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**BAFARO CONCETTA**	Development and scale-up of new semiconductor materials for applications in new generation photovoltaic cells Prof. Ferdinando Costantino (UNIPG) Dr. Edoardo Mosconi (CNR-SCITEC)	UNIPG
CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**CHIANESE MARICA**	Biodegradable polymers: kinetic, catalytic and biodegradability aspects Prof. Vincenzo Russo (UNINA) Prof. Martino Di Serio (UNINA)	UNINA
CATALISI OMOGENEA: MECCANISMI E APPLICAZIONI	**DI SAVERIO MATTEO**	Sustainable catalysis and asymmetric catalysis for fine chemicals and consumer products Prof. Armando Carlone (UIVAQ) Dr Fabio Pesciaioli (UNIVAQ)	UNIVAQ
NUOVE TECNOLOGIE PER LA CATALISI	**DRUSIANI DAVIDE**	Design and implementation of innovative synthesis strategies in the field of green chemistry and the development of sustainable chemistry methodologies Prof. Elena Petricci (UNISI) Dr. Simone Mantegazza (DIPHARMA)	UNISI
CATALISI OMOGENEA: MECCANISMI E APPLICAZIONI	**FERRARA MAURO**	Data Driven Statistical Modeling of Industrially Relevant Processes Mediated by Molecular Catalysts Prof. Vincenzo Busico (UNINA) Prof. Alceo Macchioni (UNIPG)	UNINA
NUOVE TECNOLOGIE PER LA CATALISI	**FREISA PAOLO**	Application of unconventional methods and technologies to the synthesis of contrast agents for diagnostic imaging Prof. Giancarlo Cravotto (UNITO) Prof. Alessandro Barge (UNITO)	UNITO

CATALISI OMOGENEA: MECCANISMI ED APPLICAZIONI	**GAMBARDELLA MARIAROSARIA CARMEN**	New polymeric materials with elastomeric properties based on polyesters obtained from biomass Prof. Carmine Capacchione (UNISA) Dr. Luca Giannini (Pirelli Tyre)	UNISA
CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**GARGANO GABRIELE MARIA**	New hybrid organic-inorganic materials for heterogeneous catalysis Prof. Michelangelo Gruttadauria (UNIPA) Prof. Francesco Giacalone (UNIPA)	UNIPA
NUOVE TECNOLOGIE PER LA CATALISI	**GOBBO JODI**	Optically active nanomaterials for energy and environmental applications Prof. Kassa Belay Ibrahim (UNIVE) Prof. Elisa Moretti (UNIVE)	UNIVE
CATALISI OMOGENEA: MECCANISMI ED APPLICAZIONI	**GUZZO BENIAMINO**	Sustainable and Catalytic Biomass Valorization for a Carbon-Neutral Future Prof. Giulia Licini (UNIPD) Dr. Beatrice Zampieri (SanMarco Group)	UNIPD
NUOVE TECNOLOGIE PER LA CATALISI	**JACINTO MEJIA CARLOS ROBERTO**	Computational Modelling and design of sustainable and highly selective catalytic processes using novel theoretical methods Prof. Giovanni Bistoni (UNIPG) Dr. Edoardo Mosconi (CNR-SCITEC)	UNIPG
NUOVE TECNOLOGIE PER LA CATALISI	**LERDA SOFIA**	Computational modeling of new generation materials for catalytic applications Dr. Edoardo Mosconi (CNR -SCITEC) Prof. Giovanni Bistoni (UNIPG)	CNR-SCITEC
NUOVE TECNOLOGIE PER LA CATALISI	**MUSCAS PAMELA**	Designing and Setting up Green Chemistry Syntheses for Active Pharmaceutical ingredients (APIs) and Intermediates. Prof. Andrea Porcheddu (UNICA) Dr. Simone Mantegazza (Dipharma)	UNICA
CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**PANAGINI FEDERICO**	Metal- and metal-oxide-based catalysts for photothermal reductions Prof. Matteo Signorile (UNITO) Prof. Valentina Crocellà (UNITO)	UNITO
CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**PETRELLINI ALESSIO**	Correlation of catalytic activity and catalyst material for sustainable synthesis of small molecules heterocyclic biologically actives Prof. Enrico Marcantoni (UNICAM) Prof. Serena Gabrielli (UNICAM)	UNICAM

CATALISI OMOGENEA: MECCANISMI ED APPLICAZIONI	**PORCO MARTINA**	Sustainable asymmetric catalysis and catalysis displaying relevance for pharmaceuticals and fine chemicals Prof. Armando Carlone (UNIVAQ) Dr Fabio Pesciaioli (UNIVAQ)	UNIVAQ
CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**RUSTICHELLI DANIEL**	Development of Bifunctional Catalysts, such as functionalized zeolites and Core-Shell structures, for the Conversion of CO2 into Light Olefins. Process Optimization and Industrial Applications Prof. Alfredo Aloise (UNIVAQ) Prof. Armando Carlone (UNIVAQ) Prof. Marcello Crucianelli (UNIVAQ)	UNIVAQ
CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**SAEB MARYAM**	Development of sustainable catalytic processes for chemical and energy industry Prof. Vito Capriati (UNBA) Prof. Filippo Maria Perna (UNIBA)	UNIBA
CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**SALIERNO GIUSEPPE**	Direct Valorization of Agro-Industrial Waste for Sustainable Chemical Processes Prof. Emilia Paone (UNIRC) Prof. Tommaso Tabanelli (UNIBO)	UNIBO/UNIRC
NUOVE TECNOLOGIE PER LA CATALISI	**SANGALLI UMBERTO**	Photocataysis and flow chemistry: development of new sustainable synthetic methodologies Prof. Alessandra Puglisi (UNIMI) Prof. Maurizio Benaglia (UNIMI)	UNIMI
BIOCATALISI	**SASAL EMILIA MALGORZATA**	Biomonitoring protocols for mitigating the negative environmental impacts of local manufacturing realities Prof. Gianfranco Gilardi (UNITO) Prof. Roberto Mazzoli (UNITO)	UNITO
NUOVE TECNOLOGIE PER LA CATALISI	**SCIPIONE ROBERTO**	Materiali Catalitici Sostenibili Prof. Andrea Porcheddu (UNICA) Dr.ssa Veronica Papa (Leonardo)	UNICA
CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**SEMINERIO ELENA**	Optimization of catalysts based on supported metal nanoparticles Prof. Elena Groppo (UNITO) Prof. Valentina Crocellà (UNITO)	UNITO
CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**VELLA ANTONIO**	Valorization of phenols from lignin for the preparation of molecules of pharmaceutical interest Prof. Luigi Vaccaro (UNIPG) Dr. Giulia Brufani (UNIRC)	UNIPG

CATALISI ETEROGENEA: SINTESI, CARATTERIZZAZIONE E APPLICAZIONI	**VENTURI SARA**	Photocatalytic and catalytic systems for energetic transition, obtained by innovative methods including electrospinnig Prof. Barbara Bonelli (POLITO) Dr. Francesca Stefania Freyria (POLITO) Dr. Massimiliano Antonini (Hysytech)	POLITO
NUOVE TECNOLOGIE PER LA CATALISI	**WEI XING**	Continuous flow electrochemical reactors for the use of solid electrolytes Prof. Luigi Vaccaro (UNIPG) Prof. Francesco Ferlin (UNIPG)	UNIPG