



CURS 2024-2025

SEMESTRE DE TARDOR

Títol en anglès	Alumne
CFD Simulation study for analysing heat transfer in styrene storage system. (resum)	Ajayi, Deborah Damilola
Enhancing Micropollutant Removal from Municipal Wastewater: Natural Adsorbents Addition in Constructed Wetlands plus Advanced Oxidation Process. (resum)	Arellano Vicencio, Isabel
Membrane technologies to recover phosphorus from a wastewater treatment plant. (resum)	Arnaiz Martín, Lia
Development of a high-performance 2K solvent-borne clear-coat for motorbikes.	Cristòfol Roca, Albert
Study of fire safety measures for an existing sports facility in accordance with current building regulations. (resum) (dipòsit)	Garrido Salmeron, Silvia
Optimization of the biodiesel production with the valorization of the glycerol and VFAs. (resum)	Hereu Gallego, Jordi

CFD Simulation of Post-Combustion CO ₂ Adsorption. (resum)	Jané Lloret, Josep
Development and Yb-doping of Hematite Photoanodes for Photoelectrochemical (PEC) Systems.	Koraichi El Gharbi, Tarik
Development of a durable primerless waterborne basecoat for polypropylene parts of automobiles.	Magrassó Vidiella, Gerard
Hydrothermal liquefaction of sewage sludge for biofuel applications: A kinetic process model and a simulation analysis. (resum) (dipòsit)	Mujica Ruiz, Esteban
Evaluation of grey water treatment and reuse in washing machine. (resum)	Pascual Álvarez, Anna
Water treatment via ozonation catalyzed by hydrochar from vine pruning residues. (resum)	Raya Muñoz, Anna
Study of Protection Strategies Against Explosions and Runaway Reactions in Compliance with Directive 2012/18/EU and Industrial Standards. (resum) (dipòsit)	Reis Olivera, Edmundo

SEMESTRE DE PRIMAVERA

Títol en anglès	Alumne
Treatment and recovery of sewage sludge – Application of biosolids in soils. (resum)	Àgreda Bassà, Albert
Life cycle assessment comparison of different PHA production plants using OpenLCA. (resum)	Andrés Ruiz, Òscar
Estimation of thermodynamic properties for the synthesis of diphenolic acid (DPA) from levulinic acid. (resum)	Badenes Martínez, David
Strategies to increase the reuse of wastewater in agriculture across the Balearic Islands. (resum)	Barcelona Batet, Joan
Optimization of the Process Training Unit at Endress+Hauser Through Detailed Device Operation Guides.	Bhawal Lodh Chowdhury, Tuinkle
Design of a Case Study Winery Wastewater Treatment Plant for Irrigation Purposes. (resum)	Bosch Bergalló, Laia
Liquid-phase synthesis of diphenolic acid from phenol and levulinic acid over acidic ion-exchange resins. (resum)	Camacho Delgado, Gonzalo
Design and drafting of a new waste-water treatment plant in Begur (Girona, Spain). (resum) (dipòsit)	Cano Moret, Cristina
Synthesis of catalysts for the valorization of biogenic compounds. (resum)	Castells i Colomé, Oriol

Implementation of a hydrogen refuelling station in Catalonia and its safety hazards.	Creixell Bermudo, Robert
Implementation of Lean methodology at FUCHS chemical plant.	de Balle Palomeras, Ingrid
Conceptual engineering of a monochloroacetic acid (MCA) production plant. (resum)	Escoté Coca, Arnau
Towards the legalization of chemical product warehouses: A comprehensive approach. (resum) (dipòsit)	Frau Sancho, Jose Maria
CFG simulation study for safe storage of styrene in a climate emergency scenario. (resum)	Frias Amigo, Abril Lan
Liquid-phase esterification of myristic acid with ethanol over ion-exchange resins. (resum)	García Castillo, Enrique
Simulation of a bioreactor to produce recombinant insulin. (resum) (dipòsit)	Garcia Morato, Paula
Cellulose Esters as Active Biodegradable Biopolymers for Packaging Applications: State of the Art Theoretical Evaluation and Novel Experimental Insights on Compatible Bioplasticizers. (resum)	Gázquez Rivero, Marc
Stormwater runoff treatment by ballasted flocculation targeting tire wear particles removal. (resum)	Gilabert Pérez, David
Study of the Solvay process for sodium carbonate production. (resum)	González Doval, Berta

Platform molecules: Ethanol recovery using ionic liquids. (resum)	Gracia Rius, Mireia
Advanced technologies for risk mitigation in desalination plants.	Guitart Torra, Ferran
Development of a dry stain remover and preliminary design of its manufacturing process. (resum)	Gurrutxaga Izquierdo, Edurne
Esterification of succinic acid with 1-butanol over ion exchange resins (resum)	He, Xinyuan
Assessment of End-of-Life Strategies for Plastic Wire and Cable Insulation Materials at Ferromolins S.L.	Herreros Fernández, Ignasi
Study of the operating variables of an absorption column in the CO ₂ /water system for the EEQ2 practices. (resum) (dipòsit)	Kharbach Oulad Benhari, Sara
Rainwater pretreatment in storm tanks. (resum)	López Bou, Laia
Novel insights on the synthesis and characterisation of cellulose alkanoates over ion-exchange resins for smart food-packaging applications. (resum)	López Canales, Iván
Modeling Temperature and Pressure Distribution in a Freeze-Drying Chamber with ANSYS Fluent. (resum)	Magallón Vilaseca, Oscar
Impact of the energy transition on the European petrochemical industry. (resum)	Marín Expósito, Júlia

Valorization of wastewater from the Lleida Wastewater Treatment Plant for green hydrogen production. (resum)	Miró Boix, Carlota
Techno-economic analysis of the vacuum evaporation of the rejection stream of reverse osmosis from desalination plants: experimental evaluation and modelling.	Moscoso Piña, Paula
Study of energy self-sufficient wastewater treatment plants. (resum)	Muñoz Peinado, Adrián
Renovation of an automatic wrapping machine in a chlorine tablet production plant in Monzón (Huesca)	Pagès Busquets, Júlia
Spatially controlled chaotic mixing in microfluidic devices using local geometrical features to enhance reactivity conditions. (resum) (dipòsit)	Palma Lomboy, John Patrick
Study of the acetic acid production process via methanol carbonylation: simulation based on a published RSM model. (resum)	Pastor Balaguer, Pol
Process optimization in industrial lubricants manufacturing with focus on OKS 402 grease and Klübersynth NH1 4 oil family.	Pérez Calvet, Marc
Development of a range of retinoid-based products and preliminary design of its manufacturing process. (resum) (dipòsit)	Planas Muñoz, Aina
Analysis of the thermal behaviour of a wall with PCMs using ANSYS. (resum)	Plaza Rubio, Paula
Development of a Python tool for the automated resolution of material balances. (resum) (dipòsit)	Pradas Aguarón, Mar

Nitrogen Evaporation in a Storage Tank: Thermal Study and the Utilization of Photovoltaic Energy for its Recondensation. (resum)	Ricart Manich, Laura
Retrosynthetic Design and Simulation of Novel Formic Acid Routes Using Reaxys AI. (resum)	Robayo Correa, Juan Diego
Design and optimization of the synthesis of formic acid from CO2 and green hydrogen. (resum)	Roldán Enseñat, Santiago
Application of a hybrid system composed of constructed wetland and solar photo-Fenton at neutral pH for wastewater reuse. (resum)	Romero Gonzalez, Isabel
Cellulose biofilms as a high-performance alternative in food packaging, from barrier properties to biodegradability. (resum) (dipòsit)	Salama Chocron, Amram
Simulation of a double tube heat exchanger in CFD. (resum)	Salazar Zambrano, Jonhatan David
Validation and Improvement of the Cleaning Process of Equipment in the Medical Product Industry	Segura Ferrer, Sandra
Hydrotreatment for bio-fuel production of a non-edible oil. (resum)	Valera Jiménez, Alex
Esterification reaction of isosorbide with valeric acid using Ion-Exchange Resins. (resum)	Valverde Sánchez, Alexia
Optimization of the opacity of an interior wall paint	Vich Gordillo, Berta

Nitrogen and Phosphorus Recovery: A Review of Conventional and Innovative Techniques. (resum)	Vilalta Rosiñol, Maria
Hazard and Operability study of a catalyst manufacturing industry	Virgili Arjones, Albert
Basic design of a dexketoprofen trometamol production plant. (resum) (dipòsit)	Zhou, Zhenyan