







# 09:30- OPENING- INTRODUCTION TO THE WORKSHOP. DAVID SERRANO

### RESEARCH UNITS Session 1 Chairs: Patricia Horcajada / Elia Tomas

9:50 -10:10	Thermochemical Procesess Unit	Patricia Pizarro
10:10-10:30	High Temperature Processes Unit	José González
10:30-10:50	Electrochemical Processes Unit	Jesús Palma
10:50-11:10	System Analysis Unit	Javier Dufour

### 11:10-11:40 Coffee Break

# RESEARCH UNITS Session 2 Chairs: Rebeca Marcilla / Javier Dufour

11:40-12:00	Electrical Systems Unit	Milan Prodanovic
12:00-12:20	Biotechnological Processes Unit	Cristina González
12:20-12:40	Photoactivated Processes Unit	Marta Liras
12:40-13:00	Advanced Porous Materials Unit	Patricia Horcajada

#### SENIOR & SENIOR ASSISTANT RESEARCHER Session 1 Chairs: Marta Liras/ Jesús Palma

13:00-13:15	The Fascinating Trip Towards More Sustainable Batteries	Rebeca Marcilla
13:15-13:30	Sustainability assessment and ecodesign of hydrogen energy systems	Diego Iribarren
13:30-13:45	Progress on an innovative microchannel solar receiver for pressurized fluids	M <sup>a</sup> José Montes
13:45-14:00	Not only sugars: alternative carbon sources for yeast-based bioprocesses	Elia Tomas
14:00-14:15	Hybrid halide perovskites as potential photocatalysts for H2 production	Yolanda Pérez

#### 14:15-15:15 Buffet Lunch

# SENIOR ASSISTANT RESEARCHER Session 2 Chairs: Patricia Pizarro /Diego Iribarren

15:15-15:30	The Challenge of Resource Scarcity and High Energy Prices in the EU. Lessons from "Dune" (1965) of Frank Herbert	Julio José Lado
15:30-15:45	NOx removal from urban polluted air by activated biochars	Javier Fermoso
15:45-16:00	Accelerated Solid Electrolyte Interface Quality Assessment of Lithium - Ion Batteries By Mediator- Enhanced Coulometry	Enrique García- Quismondo
16:00-16:15	Discovering the role of ammonia for a renewable energy transition	Laura Collado

# 16:15 - 16:45 Break

# SENIOR ASSISTANT RESEARCHER Session 3 Chairs: Milan Prodanovic / Enrique G Quismondo

16:45-17:00	Grid-Forming Converters for Future Power Systems	Javier Roldán
17:00-17:15	Governing the intestinal crossing of Metal-Organic	Tania Hidalgo
	Frameworks: an ex vivo & in vivo study	
17:15-17:30	How computational modeling can help us explain	Andreas
	the performance of organic molecules in flow	Mavrantonakis
	batteries	

17:30 - CLOSURE. MANUEL ROMERO