

	Title	PhD STUDENT	SUPERVISOR
1	Creation of a model of transition to the post-carbon era	Tranoulidis Apostolos	Tagaris Efthymios
2	Study of the in-situ electrochemical production of hydrogen peroxide for applications in water and wastewater treatment	Petsi Panagiota	Frontistis Zacharias
3	Life Cycle Assessment as a methodological tool for the adaption of Renewable Energy Systems to circular economy principles	Milousi Maria	Souliotis Emmanuel
4	Mathematical approach to changes in physicochemical properties in mixtures of petroleum distillates with alternative fuels	Vasiliadis Vasilios	Tsanaktsidis Konstantinos
5	Purification and utilization of biogas for hydrogen production	Georgiadis Ambrosios	Goula Maria
6	Use of synthetic hydrophilic polymers in hydrocarbon technology	Tzilantonis Georgios	Tsanaktsidis Konstantinos
7	New technologies to prevent marine pollution. The case of pollution from commercial ships	Vassilopoulos Dimitrios	Tsanaktsidis Konstantinos
8	Development and evaluation of innovative bi-functional catalytic systems for simultaneous capture and conversion of CO ₂ to synthetic natural gas	Tsiotsias Anastasios	Goula Maria
9	Development of new advanced polymer nanocomposites with lamellar fillers in food and beverage packaging: Physicochemical properties and applications	Kountouras Konstantinos	Stimoniaris Adamos
10	Development of advanced waste treatment processes supported by renewable energy technologies	Lalas Kosmas	Frontistis Zacharias
11	Reducing carbon footprint and energy consumption in wastewater treatment through innovative biological processes	Kemmou Garifalia	Amanatidou Elisavet
12	Study and development of innovative nanocomposite polymers based on natural resins of coniferous trees and natural fillers for the production of environmentally friendly products	Bousios Spyridon	Stimoniaris Adamos
13	Modeling the impact of anthropogenic emissions on air quality over the Mediterranean region	Traka Nectaria	Tagaris Efthymios
14	Stem cell processing for methane production and its use in solid oxide fuel cells	Griva Stergiani	Tsanaktsidis Konstantinos

15	Utilization of agricultural and household waste for biofuel production	Kontodemos Ioannis	Goula Maria
16	Harmonized optimal model for the collection, labeling and separation of organic waste. Case study food waste and its contribution to the circular economy	Shkodra Dimitra	Tsanaktsidis Konstantinos
17	Development and appraisal of environmentally friendly methodologies for the recovery of polyphenolic antioxidants from wheat processing by-products (bran)	Papadaki Eirini	Mitliagka Paraskevi
18	Hydrogenation of carbon dioxide (CO ₂) to higher alcohols	Latsiu Angeliki	Frontistis Zacharias
19	Optimal model of entrepreneurial mindset in higher education and its role in regional and sustainable development	Kosti Paraskevi	Tsanaktsidis Konstantinos
20	Green hydrogen production through hybrid solar systems and organic Rankine cycle	Kikis Antonios	Goula Maria
21	Steam reforming of bio-oil using innovative catalytic systems for hydrogen production	Marmanidis Konstantinos	Goula Maria
22	Development of new/improved analytical techniques and methodologies for the recovery and production of biofunctional ingredients from waste lignocellulosic biomass from the food industry	Karakula Konstantina	Kalogiannis Konstantinos
23	Pilot system for creating optimal flow conditions for natural gas/hydrogen mixtures in a high-pressure natural gas transmission network. Case study the DESFA pipeline in Western Macedonia	Moneos Nikolaos Marios	Tsanaktsidis Konstantinos
24	Novel environmentally-friendly techniques to recover bioactive compounds from Western Macedonia's indigenous flora	Vantsioti Aikaterina	Mitliagka Paraskevi
25	Characterization and determination of Crocus Sativus constituents via instrumental analysis and chemometrics	Zarifidis Stefanos	Mitliagka Paraskevi
26	Integrating Energy Technology, Policy and Investments through Place-Based Governance Models in the Energy Trilemma Context: The Role of a Just Energy Transition Observatory at Local Level for a Fair Energy Transformation	Tourlis Nikolaos	Topaloglou Eleftherios

27	Localizing SDGs in Just Energy Transition Areas: Unraveling Strategies for Clean Energy, Decent Work, Industry, Innovation and Infrastructure, Reduced Inequalities, Climate Action, and Investment Assessment	Nikolaidou Konstantinias	Topaloglou Eeeftherios
28	Enhancing sustainable development progress tracking in energy transition areas: A novel approach on Spatial Data Disaggregation and Comparative Assessment of SDGs Metrics	Karagiannis Ioannis	Topaloglou Eeeftherios
29	From Fossil to Fair: Exploring Inclusive Governance and Public Engagement Pathways for a Sustainable, Resilient, and Just Transition	Pliatsika Fotini	Topaloglou Eeeftherios