

- DESIGN OF A SUSTAINABLE BIODIESEL PRODUCTION PROCESS BY A MULTI-OBJECTIVE OPTIMIZATION; COMPUTER AIDED CHEMICAL ENGINEERING; 2023; <https://www.sciencedirect.com/science/article/abs/pii/B9780443152740500834>
- A TECHNO-ECONOMIC EVALUATION OF POST-COMBUSTION CARBON CAPTURE USING RENEWABLE AMMONIA WITH DIFFERENT PROCESS CONFIGURATIONS; CASE STUDIES IN CHEMICAL AND ENVIRONMENTAL ENGINEERING; 2023; <https://www.sciencedirect.com/science/article/pii/S2666016423002074>
- SIMULATION AND EXERGOECONOMIC ANALYSIS OF BREWERS' SPENT GRAINS CONVECTIVE DRYING PROCESS; COMPUTER AIDED CHEMICAL ENGINEERING; 2023; <https://www.sciencedirect.com/science/article/abs/pii/B978044315274050370X?via%3Dihub>
- DESIGN OF A SUSTAINABLE BIODIESEL PRODUCTION PROCESS BY A MULTI-OBJECTIVE OPTIMIZATION; PROCEEDINGS OF THE 33RD EUROPEAN SYMPOSIUM ON COMPUTER AIDED PROCESS ENGINEERING; 2023;
- EXERGOECONOMIC OPTIMIZATION OF A DOUBLE EFFECT EVAPORATION PROCESS OF COFFEE EXTRACT; COMPUTER AIDED CHEMICAL ENGINEERING; 2022; <https://www.sciencedirect.com/science/article/abs/pii/B9780323851596503341>
- SIMULATION AND EXERGOECONOMIC ANALYSIS OF THE SYNGAS AND BIODIESEL PRODUCTION PROCESS FROM SPENT COFFEE GROUNDS; CASE STUDIES IN THERMAL ENGINEERING; 2021; <https://www.sciencedirect.com/science/article/pii/S2214157X2100719X>
- ADVANCED EXERGOECONOMIC ANALYSIS OF A DOUBLE EFFECT EVAPORATION PROCESS IN AN INSTANT COFFEE PLANT; COMPUTER AIDED CHEMICAL ENGINEERING; 2021; <https://www.sciencedirect.com/science/article/pii/B9780323885065500565>
- UTILIZATION OF BREWER'S SPENT GRAIN IN EXTRUSION PROCESSING: A REVIEW; APPLIED FOOD RESEARCH; 2025; <https://www.sciencedirect.com/science/article/pii/S2772502225001787>
- EXPERIMENTAL AND SIMULATION STUDY OF CONVECTIVE DRYING PROCESS OF SPENT COFFEE GROUNDS INCLUDING AN EXERGOECONOMIC ANALYSIS; GREEN ENERGY AND TECHNOLOGY; 2025; <https://www.scopus.com/pages/publications/105009244329?origin=resultslist>

Membresía en sociedades científicas y profesionales

Premios y honores

- PREMIO EXTRAORDINARIO DE FIN DE TÍTULO DE MÁSTER, 24/05/2018
- DIPLOMA DE HONOR - MÁS ALTO PROMEDIO DE LA CARRERA, 12/12/2014
- DIPLOMA DE HONOR Y MEDALLA DE PLATA, 24/10/2014

Cursos en el año académico actual

- FENÓMENOS DE TRANSPORTE DE MASA, número de paralelos: 4

Otras responsabilidades en el año académico actual

JEFE DE DEPARTAMENTO DE UNIDAD ACADÉMICA (PROFESOR TITULAR A TIEMPO COMPLETO); JEFE DE LABORATORIO DE DOCENCIA (MIN 2H - MAX 5H); COORDINADOR DE PROGRAMA DE POSTGRADO; INVESTIGACIÓN (20 HORAS)

Desarrollo profesional

- 5TH INTERNATIONAL CONFERENCE ON ENGINEERING FUTURE FOOD, 15/09/2025 - 17/09/2025, 24 HR., ASOCIACIÓN ITALIANA DE INGENIERÍA QUÍMICA
- VALORES EN ACCIÓN, 01/09/2025 - 07/09/2025, 5 HR., EDUCACIÓN ORGANIZACIONAL CONTINUA
- DIPLOMADO EN E-LEARNING: MÓDULO 1,2 Y 5, 18/08/2025 - 20/09/2025, 35 HR., CISE
- CONGRESS ON RESEARCH, DEVELOPMENT, AND INNOVATION IN RENEWABLE ENERGIES, 23/09/2024 - 25/09/2024, 15 HR., ESPOL
- PYTHON PARA LA RESOLUCIÓN DE PROBLEMAS DE INGENIERÍA QUÍMICA, 02/09/2024 - 06/09/2024, 15 HR., CRISTOPHER VARELA