

Seminar

Prof. Assunta Marrocchi

Green Chemistry: Paradigm, Principles, and Impact

Green Chemistry, also known as sustainable or environmentally benign chemistry, is a groundbreaking approach that focuses on the design and implementation of chemical processes and products that minimize environmental impact, reduce waste, and enhance human and ecological safety.

In this lecture, we will delve into the fundamental principles of Green Chemistry, which serve as the cornerstone for developing more sustainable chemical processes. These principles encompass the reduction of hazardous materials, the use of renewable feedstocks, and the design of energy-efficient reactions, among other essential concepts.

Real-world applications across industries such as pharmaceuticals, materials science, and energy production will be examined. The role of regulations and economic incentives will be discussed, along with ongoing challenges and prospects.

Lecturer

Assunta Marrocchi is Professor of Organic Chemistry at University of Perugia (Italy), Department of Chemistry, Biology and Biotechnology. Following her Ph.D. in Chemical Sciences at the same Institution, she got postdoctoral and academic research positions, and she joined the Radboud University Nijmegen (The Netherlands) and the Northwestern University (IL, USA) as visiting scientist.

Her education and professional career are essentially focused on organic synthesis- themed research, including advanced organic materials and their application in organic electronics; sustainable conversion of biomass into high added value chemicals, fuels, and materials. She is leading author/co-author of more than 120 JCR papers, 5 book chapters with ISBN and DOI, two issued patents and two filed patent applications. She recently edited the book "Sustainable Strategies in organic electronics" (Elsevier-Woodhead, 2022).



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11.30-13.00