



## Il Dipartimento di Scienze Chimiche accoglie il dott. Daniele Mazzarella che terrà un seminario dal titolo:

## Catalytic radical processes enabled by photochemistry and electrochemistry

## Martedì 7 marzo 2023, ore 16.30 Aula H, Dipartimento di Scienze Chimiche, Via Marzolo, 1

In the last years we have witnessed a stark increase in the development of radical processes for the synthesis of organic molecules. This radical organic chemistry "renaissance" has been spurred by the development and/or rediscovery of strategies, such as photochemistry, for the production of fleeting radical intermediates under mild reaction conditions. This fast-paced field has been also merged with several catalytic manifolds to afford more effective and sometimes asymmetric processes. At the same time, technological advancement has played a pivotal role for enabling these transformations in a more reproducible, scalable and often selective way.

This talk will detail how photochemical tools can be used, in combination with organocatalysis and metal catalysis, to promote novel enantioselective radical processes. Furthermore, the use of an enabling technologies such as flow chemistry in photochemical processes will be described. Finally, the implementation of electrochemistry-promoted radical strategies in the catalytic domain will be discussed.

> Il Direttore del Dipartimento Michele Maggini