PhD Seminar

"Advances and Perspectives in Light-Mediated Reactions and Organoselenium Chemistry"

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Abstract

In recent decades, light-mediated reactions have emerged as a versatile and sustainable energy source for driving a wide array of organic transformations. Thus, our research group has focused on investigating different reaction models, based on many strategies (e.g., Fe(III)-based photoredox catalysis and EDA-complex) for the synthesis of various compounds under illumination. On the other hand, given the growing interest in organoselenium compounds due to their promising therapeutic applications, the demand for innovative strategies to construct these compounds has been constantly increased. Thus, this speech will highlight our research group`s recent advances in employing light as energy source for novel reactivity and in developing non-conventional approaches to selenium-decorated compounds, mainly those involving the chemistry of benzeneseleninic acids (BSA).