

המעבדה לכימיה אורגנית ואי-אורגנית

סמינר

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בנושא:

From a Triplet Photosensitizer to a Photoredox Catalyst

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Abstract: Continuous expansion of photoredox catalysis to other fields, like biology and material, demands greener chromophores that would work under different environments and mild conditions. Given the success of (metallo)corrole as triplet photosensitizer and electrocatalyst, their electrochemical potentials, along with their optical excitation energy, are carefully compared to demonstrate their viability as photoredox catalysts. The optimal energy gap and the long-live excited state of the metal-free corrole ultimately enables the shift of hazard to mild light source for the fluorination of medicine molecules.

