

Mapping the Energetic Landscape for the PNA(P)/Pyridine Chemical Actinometer System: A Full Experimental and Theoretical Quantum Dynamics Investigation

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The chemical reaction between p-nitroanisole (PNA) and pyridine is one example of a chemical actinometer: a tool widely used by quantum and environmental chemists paramount to understanding photodegradation of micropollutants in aquatic ecosystems. An actinometer must have an accurately characterized quantum yield, a parameter that represents how much the system reacts per photon absorbed