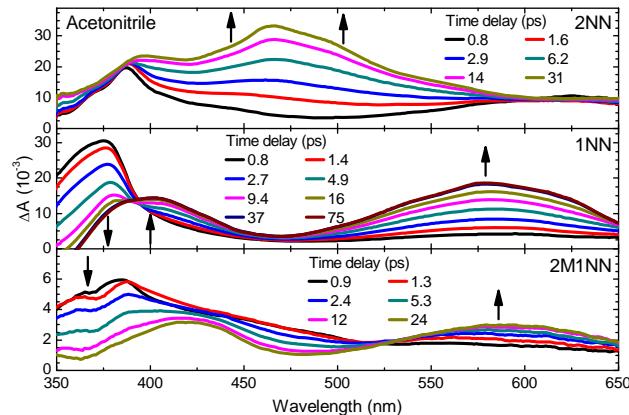
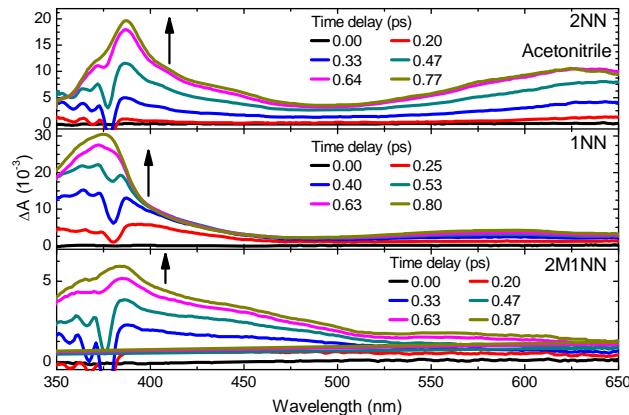
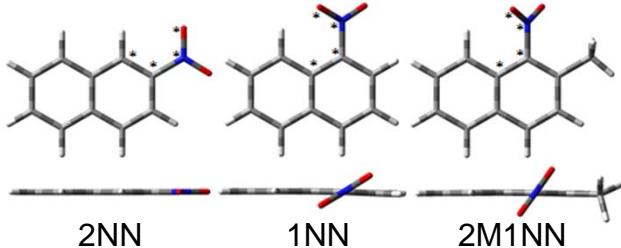
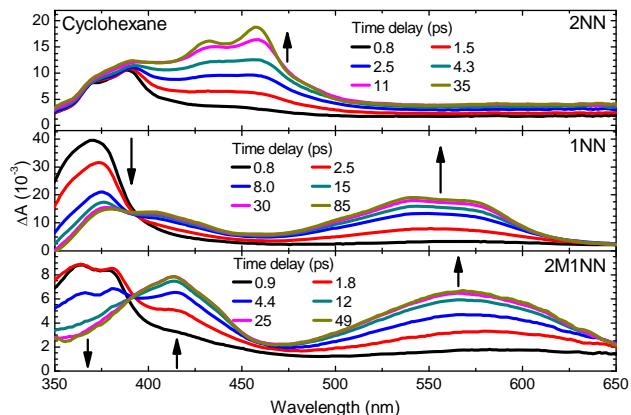
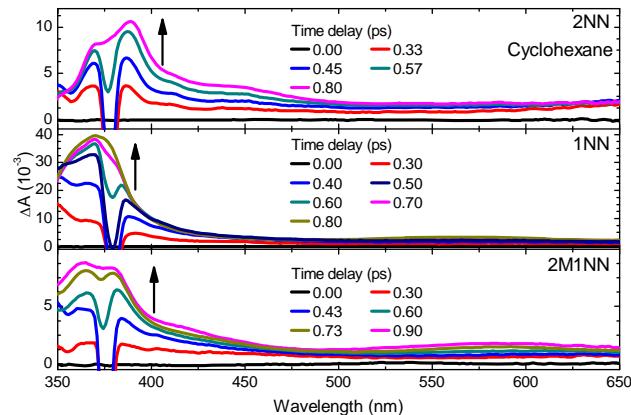


Photochemistry of Environmentally Relevant Nitro-Polycyclic Aromatic Hydrocarbons

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Nitro-polycyclic aromatic hydrocarbons have been identified as persistent organic pollutants that undergo sunlight-induced degradation in the environment. Our group has developed laboratory models that enable quantitative measurements of high-energy electronic states and reactive species that ultimately lead to chemical transformation of these pollutants. It has been shown that the orientation of the nitro group modulates the probability of forming these reactive species and their subsequent chemistry.