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Towards a mechanistic understanding of the 2PI-2PI photo-addition of cinnamic acid compounds

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Despite being referred to as “chemical graveyard” [1] crystals may play an important role in synthesis routes which require a stereo-specificity which is only present in a crystal lattice due to the fixed arrangement of the reacting molecules. The reaction yields of chemical reactions initiated by light absorption may also be higher than that in solution since the reacting molecules are very close to each other in the crystal lattice.

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