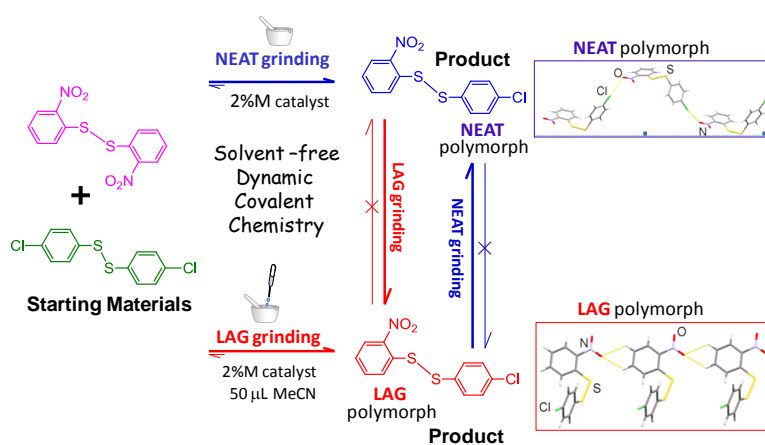


Sequential polymorphic transformation assisted by dynamic covalent chemistry

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Solvent-free dynamic covalent chemistry (DCC) can exhibit simultaneous and competitive disulfide exchange chemistry and polymorph interconversion. Under appropriate conditions the conversion from one polymorph to the other proceeds through reversible covalent chemistry intermediates and it is accelerated by one of the two disulfide homodimer starting materials.



1. Belenguer, A. M.; Friscic, T.; Day, G. M.; Sanders, J. K. M. Chem. Sci. 2011, 2, 696.