An azobenzene-based photoswitchable crystal growth modifier

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Supplementary Information
Scheme S1. Synthesis of the target substituted azobenzenes, as outlined for aspartic acid derivative 1.
Figure S1. UV-Vis spectra of (1-4H) in aqueous solution. The black curve corresponds to the trans isomer, the red to a 70% cis/30% trans mixture.

Figure S2. Rate of relaxation of cis-1 at 25 °C in the dark (from RP-HPLC analysis, 0.20 mM).
**Figure S3.** Calcite morphology observed in the presence of 500 ppm glycine functionalised additive 2, at two different magnifications.

**Figure S4.** Representative RP-HPLC chromatograms before and after calcite crystallisation experiments in the presence of *cis* and *trans*-1 (shown for 0.2 mM additive). The first peak at 3.6 min corresponds to *cis*-1, and the second peak at 4.7 min corresponds to *trans*-1.
**Figure S5.** Calcite grown in the presence of compound 1. (A) Under constant UV irradiation and (B) maintained in the dark.

**Figure S6.** Raw data for the graph depicted in Figure 6 in the article.
**Figure S7.** Raw data for the graph depicted in Figure 7 in the article.

**Figure S8.** Raw data for the graph depicted in Figure 8 in the article.