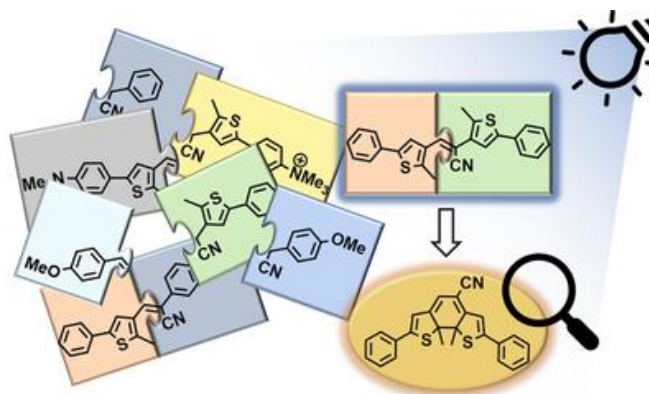


## Fishing with Light

Molecules are usually optimized for a task by trial and error. Time-consuming iterative rounds of synthesis and characterization provide detailed insight into structure-property relationships. In order to speed up this tedious process, Niklas König and Dragos Mutruc from the HechtLab have developed a clever means to generate an equilibrating mixture, a so called dynamic constitutional library, of photoswitchable molecules and used their wavelength-specific response to select the proper candidate. Thus, they could “fish” the desired switch with light in a pool of many different switches. The method should facilitate the rapid exploration of structural diversity in functional dye chemistry.



© ACS

### Accelerated Discovery of $\alpha$ -Cyanodiarylethene Photoswitches

N. F. König, D. Mutruc, and S. Hecht

*Journal of the American Chemical Society*, 2021, 143(24), 9162.

DOI: [10.1021/jacs.1c03631F](https://doi.org/10.1021/jacs.1c03631f)