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## New synthetic technology in material and drug discovery

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Automated synthesis and flow chemistry have attracted a great deal of attention in recent years because these processes improve both the reproducibility and reliability of synthesis. Development of automated synthetic procedures and storage of relevant digital data allow anyone to reproduce the same results anytime and anywhere using the same apparatus and reagents. As a result, synthetic chemists can spend more time on advanced and challenging

problems. Automated synthesis and flow chemistry often enhance the safety profile of the synthetic processes. Flow chemistry is effective for the hazardous reactions using toxic reagents or high pressure gases. Herein, we report the automated synthesis of taxol, enediyne, lewisX and ketopiperazine analogues and the flow synthesis of peptides and aliphatic aldehydes.

### Biography

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