



Organic Syntheses

Guidance for Authors

OS Techniques Articles

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The aim of OS Techniques articles is to illustrate important *experimental techniques* that are employed in the synthesis of organic compounds. The style and format of OS Techniques articles is essentially the same as for articles describing chemical reactions, and the same requirements for experimental detail and proof of purity apply. Details on the requirements for OS Techniques articles can be found in the [Instructions for Authors](#) on the Organic Syntheses website. Authors are required to submit a procedure checklist and a characterization checklist as well as NMR spectra files for all products. Prospective authors are referred to the inaugural OS Techniques article¹ as an example of the style and format for this category of *Organic Syntheses* articles.

The Board of Editors welcomes submissions on any experimental technique with utility in the synthesis of organic compounds. As an option, authors may gauge the interest of the Board by initially submitting a proposal <http://www.orgsyn.org/instructionspa.aspx> that describes the technique they propose to illustrate and the substrate(s) they propose to employ in the demonstration of the experimental operations and procedures.

Appropriate subjects for OS Techniques articles include basic experimental techniques common to many synthetic organic reactions as well as more advanced and specialized techniques. It is anticipated that OS Techniques articles will be a valuable resource for experienced chemists and will also prove useful in the training of beginning researchers. Listed below are several techniques identified by members of the Organic Syntheses Advisory Board as potential subjects for OS Techniques articles.

The experimental section of an OS Techniques article should describe in detail the application of the technique to specific, readily available organic compounds. This is important so that readers can practice and refine their skill with the technique by repeating the procedures described in the article and comparing their results to those that are reported by the authors and were verified by the Organic Syntheses “checkers”. In general, the specific compounds involved in the article should be commercially available.

Discussion sections are an important part of OS Techniques articles and should describe background on the technique and comparison (where appropriate) to alternative techniques that accomplish the same purpose. The discussion section also provides authors with the opportunity to provide

guidance on decisions that may be required when applying the technique to compounds other than those described in the article. Authors are referred to the inaugural OS Techniques article¹ for further guidance on appropriate subjects to cover in the discussion section.

Potential Subjects for OS Techniques Articles

(Suggested by members of the *Organic Syntheses* Advisory Board)

Purification of organic compounds by preparative thin layer chromatography

Purification of organic compounds by sublimation

Preparation of crystals suitable for x-ray diffraction analysis

Separation of alkenes by column chromatography on silver-impregnated silica gel

1. Senzer, B. D.; Varongchayakul, C.; Danheiser, R. L.; Daniels, B.; Dong, V. M. Purification of Organic Compounds by Flash Column Chromatography. *Org. Synth.* **2025**, *102*, 276-302, DOI: 10.15227/orgsyn.102.0276.