

# Curves and Cavities: the Fold-in Method as a Versatile Tool for Synthesizing Complex Aromatics

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The fold-in method, introduced by our group, enables the synthesis of aromatic molecules characterized by all types of curvature.<sup>[1,2]</sup> Many of these systems have large macrocyclic openings and are interesting objects for supramolecular chemistry.<sup>[3]</sup> In this project we will use the fold-in method to develop new classes of chromophores and receptors characterized by bowl-like, cylindrical, and hyperbolic curvatures, as well as coronoid systems with extended peripheral fusion. We look for highly motivated researchers (one post-doc and two PhD students), with strong skills in organic synthesis of aromatic systems.

## LEAD PAPERS

[1] D. Myśliwiec, M. Stępień, *Angew. Chem. Int. Ed.* **2013**, *52*, 1713–1717.

[2] M. A. Majewski, M. Stępień, *Angew. Chem. Int. Ed.* **2018**, 10.1002/anie.201807004.

[3] M. A. Majewski, Y. Hong, T. Lis, J. Gregoliński, P. J. Chmielewski, J. Cybińska, D. Kim, M. Stępień, *Angew. Chem. Int. Ed.* **2016**, *55*, 14072–14076.

## REQUIREMENTS

Post-docs and PhD students:

1. Multistep organic synthesis, including microscale work, and inert-atmosphere procedures.
2. Design and planning of complex synthetic sequences
3. Aromatic/functional dye chemistry
4. Spectroscopic methods, with particular emphasis on NMR spectroscopy
5. Fluency in English

Post-docs (additionally):

6. Record of providing supervision to graduate/undergraduate students
7. Hands-on experience with automated chromatography systems, especially GPC
8. Knowledge of the current project-related literature

## POSITIONS AVAILABLE

- **1 Post-doc:** up to 36 months, gross salary 120 000 PLN / year (net ca. 5 500 PLN / month + bonus each year)
- **2 PhD positions:** up to 36 months each, scholarship 4500 PLN / month (tax-exempt)

## APPLICATIONS

Please apply online at <https://goo.gl/forms/OeFvhGk2fxGwFVo32>

Deadline: 2018-01-15 23:59



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