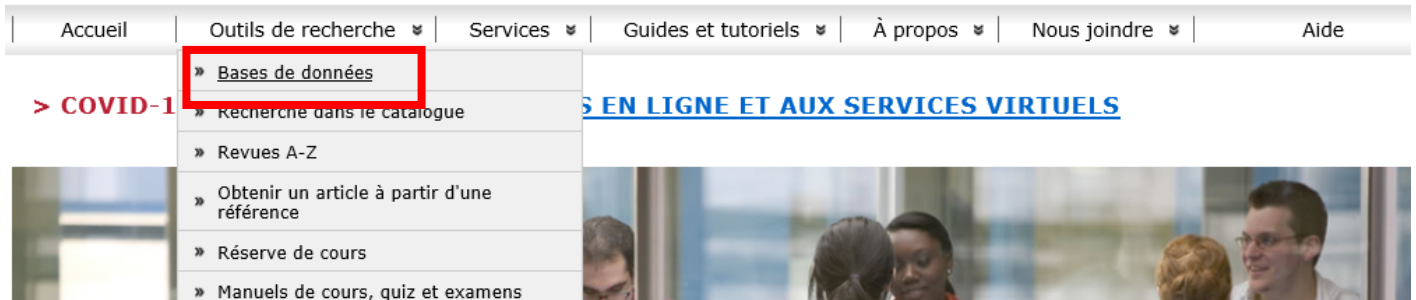
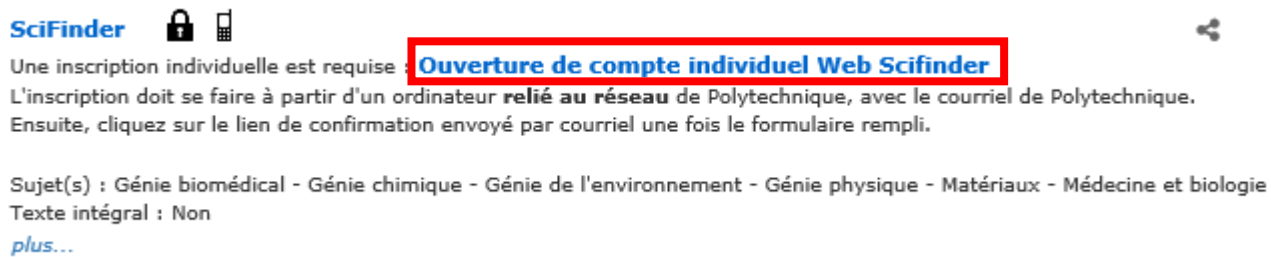


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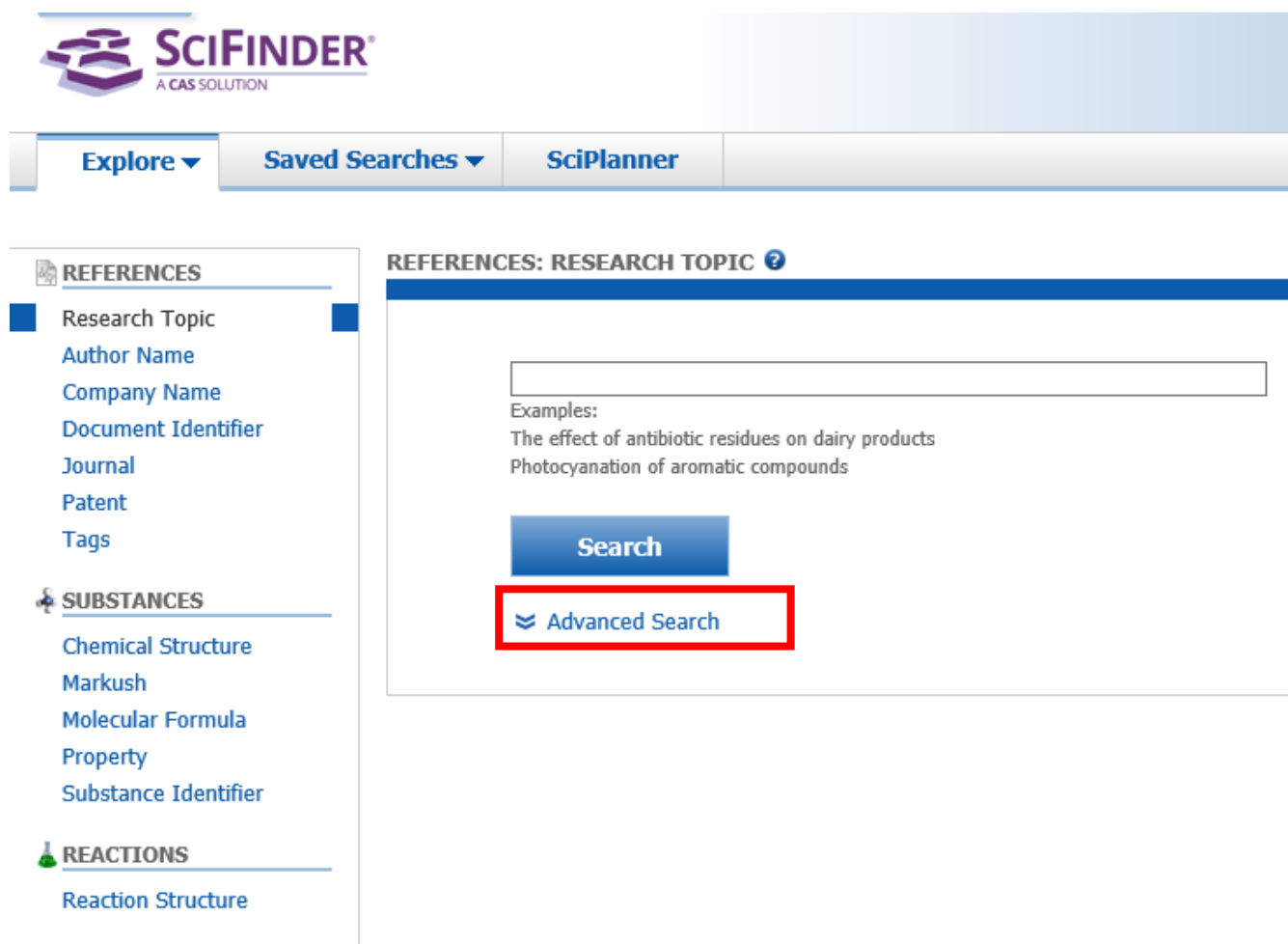
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By: Wang, Yao-Nan; Fu, Lung-Ming

This paper presents a review of the current state-of-the-art in micropumping technol. for biomedical applications. The review focuses particularly on the actuation schemes, flow directing methods and liq. chamber configurations used in the devices proposed over the past five years. A comparative study is presented of the various mech. and non-mech. micropumps proposed for biomedical applications. The performance of the various devices is compared in terms of their actuation voltage, power consumption, operating frequency range, flow rate, backpressure, and so forth. The basic operating principles and advantages of each method are introduced, and their limitations described where appropriate. The review provides a useful source of ref. for selecting micropumping schemes capable of meeting the specific flow rate requirements of different biomedical applications. In general, the review is expected to be of interest to both seasoned researchers and practitioners in the micropumping and biomedical technol. fields and those entering the field for the first time.

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