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Contact
Rajvi Mehta
Activated Research Company
612-787-2721
rajvi.mehta@activatedresearch.com

Activated Research Company Offers Stop-Flow Modulation Solution for GCxGC

Simplified modulation system increases capabilities for analytical laboratories

Eden Prairie, MN, November 20, 2020 – Activated Research Company (ARC) is now offering a stop-flow modulation solution for comprehensive two-dimensional gas chromatography (GCxGC), allowing this to be an attainable configuration for any analytical laboratory. This product offering aligns well with ARC's mission, which is to make chemical analysis easy and accessible.

Single-dimension GC is a robust analytical technique, but it can have limitations when it comes to the analysis of complex mixtures. GCxGC expands these separation capabilities, however, this configuration can be expensive to implement and requires highly trained instrument operators. ARC's solution takes advantage of stop-flow modulation and allows for low cost implementation; simple, easy installation; dramatically increased peak capacity through comprehensive analyte transfer; unattended or remote operation; streamlined operation through dedicated software; and straightforward switching between 1D and 2D GC.

"ARC's GCxGC setup is robust, easy to use, and a great introduction to the concept of 2D GC. It can be installed in any existing GC system, and its low cost and low barrier to entry make it a valuable asset for any lab seeking to expand their portfolio of analytical techniques," said Isaac Mastalski, Graduate Student at the University of Minnesota. "We're looking forward to integrating GCxGC analysis into our other projects to improve our detection capability and chromatographic resolution!"

"GCxGC is an incredibly powerful tool but it is not often adopted in labs due to its complexity and cost," said Tommy Saunders, Product Design Engineer at ARC. "Our system allows users to take advantage of the benefits of GCxGC – drastically increased peak capacity and sensitivity – with little barrier to entry."

About Activated Research Company
Activated Research Company (ARC) was founded in 2014 with a mission to make chemical analysis easy. ARC's products harness the latest in 3D printing and catalytic technologies to bring universal carbon response and compound independent calibration to gas chromatography and liquid chromatography. These innovations open new capabilities to researchers and improve analytical workflow in their laboratories. For more information, visit www.activatedresearch.com.

Activated Research Company
7561 Corporate Way
Eden Prairie, MN 55344

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