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Authors: Szabolcs Fekete, Santiago Codesido, Serge Rudaz, Davy Guillarme, Krisztián Horváth



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Apparent efficiency of serially coupled columns in isocratic and gradient elution modes

AUTHORS: Szabolcs FEKETE^{1*}, Santiago CODESIDO¹, Serge RUDAZ¹, Davy GUILLARME¹, Krisztián HORVÁTH²

¹ School of Pharmaceutical Sciences, University of Geneva, University of Lausanne, CMU - Rue Michel Servet, 1, 1211 Geneva 4 – Switzerland

² Department of Analytical Chemistry, University of Pannonia, Egyetem u. 10, 8200 Veszprém, Hungary

CORRESPONDENCE: Szabolcs FEKETE

Phone: +41 22 379 63 34

E-mail: szabolcs.fekete@unige.ch

Highlights

- Theory was developed to predict the peak widths for coupled column systems
- In gradient elution mode, the order of the columns impacts the apparent peak width
- “Peak sharpening” may occur when the most efficient column is the last in the assembly
- Theory and predictions have been experimentally verified

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