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Title: Comparison of the most recent chromatographic approaches applied for fast and high resolution separations: Theory and practice

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- This review compares the kinetic performance of modern LC and SFC approaches.
- The upper pressure limit of monolithic columns should be extended to 400-600 bar.
- Columns packed with superficially porous particles are very powerful in both LC and SFC.
- Modern SFC systems still need to be optimized (lower  $\sigma_{\text{ext}}^2$  and higher  $\Delta P_{\text{max}}$ ).

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