

Dwight R. Stoll, Ph.D., Peer-Reviewed Publications (in chronological order)

1. Dunlap, C. J.; McNeff, C. V.; Stoll, D. R.; Carr, P. W. "Zirconia stationary phases for extreme separations." *Analytical Chemistry* **2001**, 73, 598A-607A.
2. Schellinger, A. P.; Stoll, D. R.; Carr, P. W. "High speed gradient elution reversed-phase liquid chromatography." *Journal of Chromatography A* **2005**, 1064, 143-156.
3. Stoll, D. R.; Carr, P. W. "Fast, Comprehensive Two-dimensional HPLC separation of tryptic peptides based on High-Temperature HPLC." *Journal of the American Chemical Society* **2005**, 127, 5034-5035.
4. Wang, X.; Stoll, D. R.; Schellinger, A. P.; Carr, P. W. "Peak capacity optimization of peptide separations in reversed-phase gradient elution chromatography: fixed column format." *Analytical Chemistry* **2006**, 78, 3406-3416.
5. Wang, X.; Stoll, D. R.; Carr, P. W.; Schoenmakers, P. J. "A graphical method for understanding the kinetics of peak capacity production in gradient elution liquid chromatography." *Journal of Chromatography A* **2006**, 1125, 177-181.
6. Stoll, D. R.; Cohen, J. D.; Carr, P. W. "Fast, comprehensive two-dimensional HPLC through the use of High Temperature Ultra-Fast Gradient Elution RPLC." *Journal of Chromatography A* **2006**, 1122, 123-137.
7. Porter, S. E. G.; Stoll, D. R.; Rutan, S. C.; Carr, P. W.; Cohen, J. D. "Analysis of four-way two-dimensional liquid chromatography – diode array data: Application to metabolomics." *Analytical Chemistry* **2006**, 78, 5559-5569.
8. Schellinger, A. P.; Stoll, D. R.; Carr, P. W. "High speed gradient elution RPLC of bases in buffered eluents Part I: Retention repeatability and column reequilibration." *Journal of Chromatography, A* **2008**, 1192, 43-51.
9. Schellinger, A. P.; Stoll, D. R.; Carr, P. W. "High speed gradient elution RPLC of bases in buffered eluents Part II: Full equilibrium." *Journal of Chromatography, A* **2008**, 1192, 54-61.
10. Stoll, D.R., C. Paek, and P.W. Carr. "Fast gradient elution reversed-phase HPLC with diode-array detection as a high throughput screening method for drugs of abuse. I: Chromatographic conditions." *Journal of Chromatography A*, **2006**, 1137, 153-162.
11. Porter, S. E. G.; Stoll, D. R.; Carr, P. W.; Rutan, S. C. "Fast gradient elution reversed-phase HPLC with diode-array detection as a high throughput screening method for drugs of abuse. II: Data analysis." *Journal of Chromatography A* **2006**, 1137, 163-172.
12. Stoll, D. R.; Li, X.; Wang, X.; Porter, S. E. G.; Rutan, S. C.; Carr, P. W. "High temperature, fast two-dimensional liquid chromatography." *Journal of Chromatography A*, **2007**, 1168, 3-43, doi:10.1016/j.chroma.2007.08.054.
13. McNeff, C., V.; Yan, B.; Stoll, D., R.; Henry, R. "Practice and theory of high temperature liquid chromatography." *Journal of Separation Science*, **2007**, 30, 1672-1685.
14. Davis, J. M.; Stoll, D., R.; Carr, P. W. "Effect of first dimension undersampling on effective peak capacity in comprehensive two-dimensional separations." *Analytical Chemistry* **2007**, 80, 461-473.

15. Stoll, D. R.; Wang, X.; Carr, P. W. "A comparison of the practical resolving power of one- and two-dimensional High Performance Liquid Chromatography analysis of metabolomic samples." *Analytical Chemistry* **2007**, 80, 268-278.
16. Davis, J. M.; Stoll, D. R.; Carr, P.W. "Dependence of effective peak capacity in comprehensive two-dimensional separations on the distribution of peak capacity between the two dimensions." *Analytical Chemistry* **2008**, In Press, doi: 10.1021/ac071504j.
17. Reichenbach, S. E.; Carr, P. W.; Stoll, D. R.; Tao, Q. "Smart templates for peak pattern matching with comprehensive two-dimensional liquid chromatography." *Journal of Chromatography, A* **2008**, In Press, doi:10.1016/j.chroma.2008.09.058.
18. Li, X.; Stoll, D. R.; Carr, P. W. "A simple and accurate equation for peak capacity estimation in two dimensional liquid chromatography." *Analytical Chemistry* **2008**, In Press.