

Doug Gjerde Journal Articles

1. Rainer M, Muhammad NU, Huck CW, Feuerstein I, Bakry R, Huber LA, Gjerde DT, Zou X, Qian H, Du X, Wei-Gang F, Ke Y, Bonn GK. *Ultra-fast mass fingerprinting by high-affinity capture of peptides and proteins on derivatized poly(glycidyl methacrylate/divinylbenzene) for the analysis of serum and cell lysates*. Rapid Commun Mass Spectrom. 2006; 20(19):2954-60.
2. Bakry R, Gjerde D, Bonn GK. *Derivatized nanoparticle coated capillaries for purification and micro-extraction of proteins and peptides*. J Proteome Res. 2006 Jun; 5(6):1321-31.
3. Hanna C, Gjerde D, Nguyen L, Dickman M, Brown P, Hornby D. *Micro-scale open-tube capillary separations of functional proteins*. Anal Biochem. 2006 Mar 1; 350(1):128-37. Epub 2006 Jan 17.
4. Hecker KH, Taylor PD, Gjerde DT. *Mutation detection by denaturing DNA chromatography using fluorescently labeled polymerase chain reaction products*. Anal Biochem. 1999 Aug 1;272(2):156-64.
5. Kuklin A, Davis AP, Hecker KH, Gjerde DT, Taylor PD. *A novel technique for rapid automated genotyping of DNA polymorphisms in the mouse*. Mol Cell Probes. 1999 Jun;13(3):239-42.
6. Kuklin A, Munson K, Taylor P, Gjerde D. *Isolation and analysis of amplified cDNA fragments during detection of unknown polymorphisms with temperature modulated heteroduplex chromatography*. Mol Biotechnol. 1999 Jun; 11(3):257-61.
7. Kuklin, Alexander; Munson, Kimberly; Gjerde, Douglas; Haefele, Robert; Taylor, Paul. *Detection of single-nucleotide polymorphisms with the WAVE DNA fragment analysis system*. Genet. Test. 1998. 1:201-206.
8. Kleindienst, Gerald; Huber, Christian G.; Gjerde, Douglas T.; Yengoyan, Leon; Bonn, Guenther K. *Capillary electrophoresis of peptides and proteins in fused-silica capillaries coated with derivatized polystyrene nanoparticles*. Electrophoresis 1998. 19:262-269.
9. Fritz, James S.; Freeze, Ronald C.; Thornton, Michelle J.; Gjerde, Douglas T. *Methods for concentrating metal ions prior to analysis by ion chromatography or capillary electrophoresis*. J. Chromatogr., A 1996. 739:57-61.
10. Gjerde, Douglas T.; Wiederin, Daniel R.; Smith, Fred G.; Mattson, Bruce M. *Metal speciation by means of microbore columns with direct-injection nebulization by inductively coupled plasma atomic emission spectroscopy*. J. Chromatogr. 1993. 640:73-8.

11. Gjerde, D. T.; Mehra, H. C. *Ion chromatographic speciation of trace metals*. J. Chromatogr. Libr. 1991. 47:213-37.
12. Jackson, Peter E.; Jandik, Petr; Li, Jeanne; Krol, Jim; Bondoux, Gerard; Gjerde, Douglas T. *Practical applications of solid-phase reagent conductivity detection in ion chromatography*. J. Chromatogr. 1991. 546:189-98.
13. Gjerde, D. T.; Cox, D. J.; Jandik, P.; Li, J. B. *Determination of analytes at extreme concentration ratios by gradient ion chromatography with solid-phase reaction detection*. J. Chromatogr. 1991. 546:151-8.
14. Jandik, P.; Li, J. B.; Jones, W. R.; Gjerde, D. T. *New method of background eluent conductivity elimination in gradient ion chromatography*. Chromatographia 1990. 30:509-17.
15. Frankenberger, W. T., Jr.; Mehra, H. C.; Gjerde, D. T. *Environmental applications of ion chromatography*. J. Chromatogr. 1990. 504:211-45.
16. Gjerde, Douglas T.; Benson, James V. *Suspension postcolumn reaction detection method for liquid chromatography*. Anal. Chem. 1990. 62:612-15.
17. Nguyen, J. H.; Kim, H. J.; Gjerde, D. T. *Determination of sulfite in foods and beverages*. Am. Lab. (Fairfield, Conn.) 1988. 20:122-6.
18. Gjerde, Douglas T. *Eluent selection for the determination of cations in ion chromatography*. J. Chromatogr. 1988. 439:49-61.
19. Gjerde, Douglas T. *Determination of sulfite* Am. Lab. (Fairfield, Conn.) 1987. 19:52.
20. Robbins, W. K.; McElroy, F. C.; Gjerde, D. T.; Defreese, G. T. *Quantitative PAH (polynuclear aromatic hydrocarbon) measurements by LC/UV*, Polynucl. Aromat. Hydrocarbons, (Pap. Int. Symp.), 8th EDITOR: Cooke, Marcus (Ed), Dennis, Anthony J (Ed), 1985. PAGES: 1111-21.
21. Gjerde, Douglas T. *Principles of detection in single-column ion chromatography*. Int. J. Environ. Anal. Chem. 1986. 27:289-304.
22. Jupille, Thomas H.; Gjerde, Douglas T. *The state of the art in single-column ion chromatography*. J. Chromatogr. Sci. 1986. 24:427-33.
23. Chriswell, Colin D.; Gjerde, Douglas T.; Shultz-Sibbel, Gerda; Fritz, James S.; Ogawa, Ikue *Evaluation of the adsorption properties of silicalite for potential application to isolating polar low-molecular-weight organics from drinking water*, Report 1983. NUMBER: EPA-600/1-83-001; Order No. PB83-148502 PAGES: 31 pp.

24. Shultz-Sibbel, G. M. W.; Gjerde, D. T.; Chriswell, C. D.; Fritz, J. S.; Coleman, W. Emile *Analytical investigation of the properties and uses of a new hydrophobic molecular sieve*. *Talanta* 1982. 29:447-52.
25. Chriswell, Colin D.; Gjerde, Douglas T. *Sampling of stack gas for sulfur dioxide with a molecular sieve adsorbent*. *Anal. Chem.* 1982. 54:1911-13.
26. DuVal, D. L.; Fritz, J. S.; Gjerde, D. T. *Indirect determination of cyanide by single-column ion chromatography*. *Anal. Chem.* 1982. 54:830-2.
27. Gjerde, Douglas T.; Fritz, James S. *Sodium and potassium benzoate and benzoic acid as eluents for ion chromatography*. *Anal. Chem.* 1981. 53:2324-7.
28. Roberts, K. M.; Gjerde, D. T.; Fritz, J. S. *Single-column ion chromatography for the determination of chloride and sulfate in steam condensate and boiler feed water*. *Anal. Chem.* 1981. 53:1691-5.
29. Gjerde, D. T. *Ion chromatography with low-capacity resins and low-conductivity eluents*. Report 1980. NUMBER: IS-T-916 PAGES: 171 pp. No. 15851 AVAIL: NTIS.
30. Fritz, James S.; Gjerde, Douglas T.; Becker, Rose M. *Cation chromatography with a conductivity detector*. *Anal. Chem.* 1980. 52:1519-22.
31. Gjerde, D. T.; Fritz, J. S.; Schmuckler, G. *Anion chromatography with low-conductivity eluents*. *J. Chromatogr.* 1979. 186:509-19.
32. Gjerde, D. T.; Fritz, J. S. *Chromatographic separation of metal ions on macroreticular anion-exchange resins of a low capacity*. *J. Chromatogr.* 1980. 188:391-9.
33. Gjerde, D. T.; Schmuckler, G.; Fritz, J. S. *Anion chromatography with low-conductivity eluents II*. *J. Chromatogr.* 1980. 187:35-45.
34. Gjerde, D. T.; Fritz, J. S. *Effect of capacity on the behavior of anion-exchange resins*. *J. Chromatogr.* 1979. 176:199-206.
35. Gjerde, D. T.; Wiederin, D. R.; Smith, F. G.; Mattson, B. M. *Metal speciation by means of micro-bore columns with direct-injection nebulization by inductively coupled plasma atomic-emission spectroscopy*. *J. Chromatogr.*, 640:73-78.

Doug Gjerde Books and Book Chapters

1. James St. Fritz and Douglas T. Gjerde, "Ion Chromatography", 4th Ed, Wiley-VCH, GmbH, Weiheim; New York, 2008.
2. Douglas T. Gjerde, Christopher P. Hanna, David Hornby and Guenther Bonn, "Nucleic Acid Chromatography" in "Encyclopedia of Molecular Cell Biology and Molecular Medicine." Ed. by Robert A. Meyers, Vol. 9, Wiley-VCH, GmbH. Weiheim: New York, 2005.
3. Douglas T. Gjerde, Christopher P. Hanna, and David Hornby "DNA Chromatography", Wiley-VCH, GmbH, Weiheim; New York, 2002.
4. James St. Fritz and Douglas T. Gjerde, "Ion Chromatography", 3rd Ed, Wiley-VCH, GmbH, Weiheim; New York, 2000.
5. D. T. Gjerde and H. C. Mehra, "Ion chromatography speciation of trace metals" in "Trace metal analysis and speciation", Ed by I. S. Krull, Elsevier: Amsterdam; New York, 1991.
6. Douglas T. Gjerde and James S. Fritz, "Ion Chromatography", 2nd Ed, Dr. Alfred Huethig Verlag, GmbH: Heidelberg; Basel; New York, 1987.
7. James S. Fritz, Douglas T. Gjerde and Christel Pohlandt, "Ion Chromatography" Dr. Alfred Huethig Verlag, GmbH: Heidelberg; New York, 1982, also translated into Russian and Japanese.