

## 參考文獻：

1. F. Vinet , P. Chaton, Y. Fouillet, “Microarrays and microfluidic devices: miniaturized systems for biological analysis” , Microelectronic Engineering, 2002, 61–62, 41–47.
2. B. Malyan, W. Balachandran, “Sub-micron sized biological particle manipulation and characterization”, Journal of Electrostatic, 2001, 51-52,15-19
3. D.E.Raymond, A. Manz, H.M.Widmer, “Continuous Sample Pretreatment Using a Free-Flow Electrophoresis Device Integrated onto a Silicon Chip“, Anal. Chem,1994,66,2858-2865
4. F.E.Regnier, B.He, S.Lin, J.Busse, “ Chromatography and electrophoresis on chips: critical elements of future integrated, microfluidic analytical systems for life science “, Trends Biotechnol,1999,17,101-106
5. C.S Effenhauser, A.Paulus, A. Manz, H.M.Widmer, “ High-Speed Separation of Antisense Oligonucleotides on a Micromachined Capillary Electrophoresis Device “, Anal. Chem.,1994, 66,2949-2953
6. L.W. van H. Nicole, V. Oscar, M. M. L. van H. Adele, J. K. Esther, P. Ad, A. Aharoni, J. van T. Arjen, K. Jaap, “The application of DNA microarrays in gene expression analysis”, Journal of Biotechnology, 2000,78, 271–280
7. T. Richter, L. S. L. Loranelle, O. D. Richard,U. Bilitewski, D. J. Harrison,“Bi-enzymatic and capillary electrophoretic analysis of non-fluorescent compounds in microfluidic devices: Determination of xanthine”, Sensors and Actuators B, 2002, 81, 369-376.
8. 黃冠瑞, 國立成功大學工程科學系碩士論文, 89, 高效能微流體晶片之設計製作與其在生物醫學之應用

9. S.Hjerten, *Chromatogr.Rev.*, 1967, 9, 122-239
10. J.W. Jorgenson and K.D. Lukacs, “ Zone electrophoresis in open-tubular glass capillaries “ , *Anal. Chem.*, 1981, 53, 1298-1302
11. D.J. Harrison, A. Manz, Z. Fan, H. Ludi, “ Capillary electrophoresis and sample injection systems integrated on a planar glass chip “ , *Anal. Chem.*, 1992, 64, 1926~1932
12. A.Schwarz, J.S.Rossier, E.Roulet, N.Mermod, M.A.Roberts, H.H.Girault, “ Micropatterning of Biomolecules on Polymer Substrates “ , *Langmuir*, 1998, 14, 5526-5531
13. J.S.Rossier, M.A.Roberts, R.Ferrigno, H.H.Girault, “ Electrochemical detection in polymer microchannels “ , *Anal.Chem.*, 1999, 71, 4294-4299
14. J.S.Rossier, P.Bercier, A.Schwarz, S.Loridant, H.H.Girault, “ Topography, Crystallinity and Wettability of Photoablated PET Surfaces “ , *Langmuir*, 1999, 15, 5173-5178
15. J.S.Rossier, R.Ferrigno, H.H.Girault, “ Electrophoresis with electrochemical detection in a polymer microdevice “ , *Journal of Electroanalytical Chemistry*, 2000, 492 15–22
16. Y.H.Chen, S.H.Chen, “ Analysis of DNA fragments by microchip electrophoresis fabricated on poly(methyl methacrylate) substrates using a wine-imprinting method “ , *Electrophoresis*, 2000, 21, 165-170
17. A.Roberts, J.S.Rossier, P.Bercier, H.H.Girault, “ UV Laser Machined Polymer Substrates for the Development of Microdiagnostic Systems “ , *Anal. Chem.* , 1997, 69, 2035-2042
18. J.S.Rossier, G.Gokulrangan, H.H.Girault, S.Svojanovsky, G.S.Wilson, “ Characterization of Protein Adsorption and Immunosorption Kinetics in Photoablated Polymer Microchannels “ , *Langmuir* 2000, 16, 8489-8494

19. F.Bianchi,Y.Chevolot,H.J.Mathieu, H.H.Girault, “ Photomodification of polymer microchannels induced by static and dynamic excimer ablation:Effect on the electroosmotic flow“, Anal. Chem.2001, 73,3845-3853
20. M.A. Roberts,J.S. Rossier,P.Bercier,and H.Girault, “ UV Laser Machined Polymer Substrates for the Development of Microdiagnostic Systems“, Anal. Chem.,1997, 69,2035-2042
20. L.Martynova, L.E.Locascio,M.Gaitan, “ Fabrication of Plastic Microfluid Channels by Imprinting Methods“, Anal. Chem., 1997, 69, 4783-4789
22. 曾建凱, “應用準分子雷射製造為晶片式電泳及其在DNA分離與偵測之研究“, 國立成功大學工程科學系碩士論文, 民國八十九年六月
23. S.C.Jacobson,R.Hergenroder,L.B.Coutny,R.J.Warmack,J.M.Ramsey, “ Effects of injection schemes and column geometry on the performance of microchip electrophoresis devices “,Anal.Chem.,1994,66,1107-113
24. 陳邦維、李國賓、林中源、陳淑惠、宋旺洲、廖寶琦，微系統科技協會季刊第五期，44
25. T.C.Rohner, J.S.Rossier, H.H.Girault, “ Polymer Microspray with an Integrated Thick-Film Microelectrode“, Anal. Chem.2001, 73,5353-5357