I416　電分析化學實驗室
Analytical Electrochemistry Laboratory

● 本實驗室的研究內容

1. 過氧化氫感測器
2. 電化學生醫感測器
3. 反應工程
4. 動態模擬

● 本實驗室的成員

1. 指導老師 ： 林浩 老師

2. 碩士班學生

年級	姓名	論文題目
碩 一	戴啟祐	以因子實驗設計分析以含鉻黃血鹽及奈米銀粉修飾碳糊電極之操作參數對偵測過氧化氫之影響
碩 二	賴允翔	以含銅赤血鹽及奈米銀粉修飾碳糊電極應用於過氧化氫感測器

3. 大學部專題生

年級	姓名	論文題目
大四	林敬恆 林明佑 翁瑞成 楊子賢	以電子傳媒及奈米銀粉修飾之碳糊電極應用於偵測過氧化氫
大四	李柏賢 顏弘達 江俊霖 鄭清芃	經修飾之碳糊電極的反應參數對偵測過氧化氫之影響

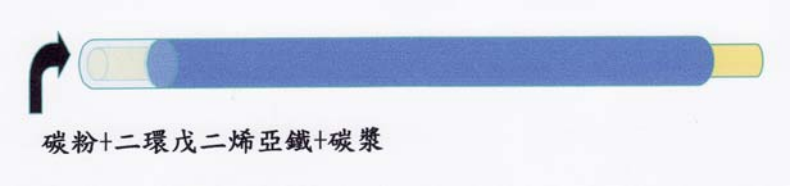
● 本實驗室的畢業學長

畢業年份	姓名	論文題目
2003	仇善誠	生化反應槽之穩定狀態和動態分析
2004	蘇文柯	微生物反應槽之穩定狀態和動態分析
2005	林憲志	兩個生化反應槽串聯之穩定狀態和動態分析
2006	廖國翔	以含釘黃血鹽修飾碳糊電極應用於電流式過氧化氫感測器及葡萄糖生醫感測器之研究
2006	王祥雲	兩個微生物反應槽串聯之穩定狀態和動態分析

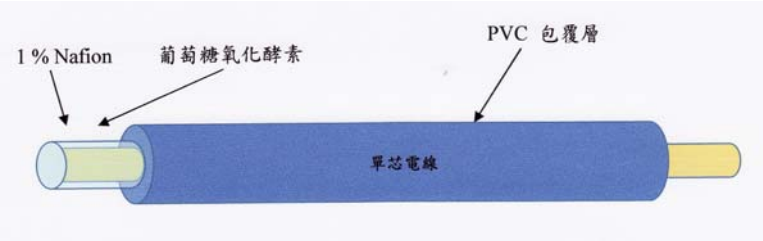
2006	汪乙生	以二環戊二烯亞鐵修飾碳糊電極應用於電流式葡萄糖感測器與平版式生醫感測器之製作及改進
2007	蕭佳政	以因子實驗設計分析以含銅赤血鹽修飾碳糊電極之反應參數對偵測過氧化氫的應答電流之影響及其應用於葡萄糖生醫感測器之研究
2007	郭寶財	以因子實驗設計分析以二環戊二烯亞鐵修飾碳糊電極之反應參數對偵測過氧化氫的應答電流之影響及其應用於葡萄糖生醫感測器之研究
2008	羅濟玟	以 Meldola’s Blue 修飾碳糊電極之反應參數對偵測過氧化氫的應答電流之影響
2010	胡真熏	以含鉻黃血鹽修飾碳糊電極之反應參數對偵測過氧化氫的靈敏度之影響
2011	林庭立	以含鈷赤血鹽修飾碳糊電極應用於過氧化氫感測器之研究
2012	連崇閔	以含鎳赤血鹽修飾碳糊電極應用於偵測過氧化氫之研究
2014	丁家治	以普魯士藍修飾碳糊細小電極應用於偵測過氧化氫之研究
2015	楊孟儒	以二環戊二烯亞鐵及奈米銀粉修飾碳糊電極應用於偵測過氧化氫
2016	陳禹安	以實驗設計分析以含鈷赤血鹽及奈米銀粉修飾碳糊電極之操作參數對偵測過氧化氫之影響

2016	方銘澤	以含鉻黃血鹽及奈米銀粉修飾碳糊電極應用於過氧化氫感測器
2017	邱珮慈	以含鎳赤血鹽及奈米銀粉修飾碳糊電極之操作參數對偵測過氧化氫之影響
2017	高坤儀	以因子實驗設計分析未修飾之碳糊電極的操作參數對偵測過氧化氫之影響
2018	盧昱偉	以實驗設計分析以含釕黃血鹽修飾碳糊電極之操作參數對偵測過氧化氫之影響

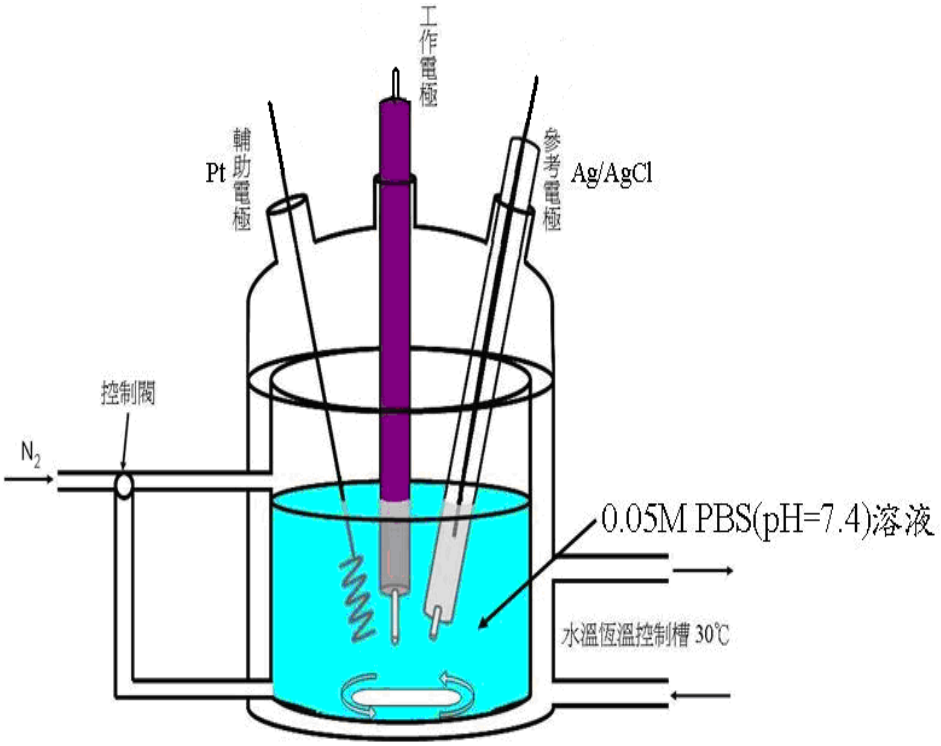
● 實驗室儀器設備介紹



碳糊電極示意圖



酵素電極示意圖



三電極系統示意圖

電化學分析儀

● 本實驗室的研究成果

(A)期刊論文：

1. 林浩，2000 年 11 月，“生化培養槽之動態和穩定狀態”，南台科技大學學報，第二十四期，pp.155-162。
2. 林浩，2001 年 3 月，“連續培養之回流生化反應系統之穩定狀態和動態分析”，南台科技大學學報，第二十五期，pp.15-24。

(B)研討會論文：

1. Hau Lin , Yi-Sheng Wang , Chi-Wen Lo ,Wu-Chou Lu , Chin-Hou Li , and Liang-Chien Chang , December, 2007 “A Study of the Carbon Paste Electrode Modified with Ferrocene and Its Application to the Detection of the Sensitivity of the Amperometric Hydrogen Peroxide Sensor”, Annual Chinese Chemical Society & ICCT 2007 Joint Conference, p-ANA0001.
2. Hau Lin , Kuo-Hsiang Liao , Chi-Wen Lo , Mei-Chun Liao , Chin-Hou Li, and Liang-Chien Chang , December, 2007 “ A Study of the Carbon Paste Electrode Modified with Ruthenium Hexacyanoferrate and Its Application to the Detection of the Sensitivity of the Hydrogen Peroxide Sensor ”, Annual Chinese Chemical Society & ICCT 2007 Joint Conference, p-ANA0002.
3. Hau Lin , Chia-Cheng Hsiao , Chi-Wen Lo , En-Tse Wang , Chin-Hou Li , and Liang-Chien Chang , December, 2007 “The Effect of the Operating Potential on the Responding Current of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with the Copper Hexacyanoferrate”, Annual Chinese Chemical Society & ICCT 2007 Joint Conference, p-ANA0003.
4. Hau Lin , Pao-Tsai Kuo , Chi-Wen Lo , Chen-Fang Lin , Chin-Hou Li , and Liang-Chien Chang , December, 2007 “The Effect of the pH of Buffer Solution on the Responding Current of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with the Ferrocene”, Annual Chinese Chemical Society & ICCT 2007 Joint Conference,p-ANA0004.
5. Hau Lin , Chi-Wen Lo , Chin-Hou Li, and Liang-Chien Chang , December, 2007 “The Effect of the Reaction Parameters on the Sensitivity of the Responding Current of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with theMeldola's Blue ”, Annual Chinese Chemical Society & ICCT 2007 Joint Conference, p-ANA0005.
6. Hau Lin, Yi-Sheng Wang, Chi-Wen Lo, Wu-Chou Lu, Chin-Hou Li, and Liang-Chien Chang, June, 2008, “A Study of Screen Printed Planar Electrode Modified with Ferrocene and Its Application to Detection of Sensitivity of the Hydrogen Peroxide Sensor”, The 13 th Biochemical Engineering Conference, p-PIV-18.
7. Hau Lin, Kuo-Hsiang Liao, Chi-Wen Lo, Mei-Chun Liao, Chin-Hou Li, and Liang-Chien Chang, June, 2008, “ Preparation of Screen Printed Planar Electrode Modified with Ruthenium Hexacyanoferrate and Its Application to Detection of Sensitivity of the Hydrogen Peroxide Sensor”, The 13 th Biochemical Engineering Conference, p-PIV-19.
8. Hau Lin, Chia-Cheng Hsiao , Chi-Wen Lo, En-Tse Wang, Chin-Hou Li, and Liang-Chien Chang, June, 2008, “ The Effect of the pH of Buffer Solution on the Sensitivity of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Copper Hexacyanoferrate”, The 13 th Biochemical Engineering Conference, p-PIV-20.

9. Hau Lin, Pao-Tsai Kuo , Chi-Wen Lo, Chen-Fang Lin , Chin-Hou Li, and Liang-Chien Chang, June, 2008, " The Effect of the Stirring Rate on the Sensitivity of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Ferrocene", The 13th BiochemicalEngineering Conference, p-PIV-21.
10. Hau Lin, Chi-Wen Lo, Chang-Yi Li , Chin-Hou Li, and Liang-Chien Chang, June, 2008, " The Effect of the Operating Potential on the Sensitivity of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Meldola's Blue", The 13 th Biochemical Engineering Conference, p-PIV-22.
11. Hau Lin, Yi-Sheng Wang, Chen-Hsun Hu, Hsu-Jen Lu, Chin-Hou Li, and Liang-Chien Chang, November, 2008, "Preparation of Screen Printed Planar Electrode Modified with Ferrocene and Its Application to Glucose Biosensor ", 2008 Taiwan/Korea/Japan ChE Conference and 55th TwIChE Annual Conference, p-PS4001.
12. Hau Lin, Kuo-Hsiang Liao, Chen-Hsun Hu, Chun-Yu Cheng, Chin-Hou Li, and Liang-Chien Chang, November, 2008, "A Study of the Screen Printed Planar Electrode Modified with Ruthenium Hexacyanoferrate and Its Application to Glucose Biosensor", 2008 Taiwan/Korea/Japan ChE Conference and 55th TwIChE Annual Conference, p-PS4002.
13. Hau Lin, Chia-Cheng Hsiao, Chen-Hsun Hu, Chun-Hsien Huang, Chin-Hou Li, and Liang-Chien Chang, November, 2008, "A Study of the Operating Conditions for the Responding Current of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Copper Hexacyanoferrate", 2008 Taiwan/Korea/Japan ChE Conference and 55th TwIChE Annual Conference, p-PS4003.
14. Hau Lin, Pao-Tsai Kuo, Chen-Hsun Hu, Chun-Ting Hsu, Chin-Hou Li, and Liang-Chien Chang, November, 2008, "A Study of the Operating Conditions for the Sensitivity of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Ferrocene", 2008 Taiwan/Korea/Japan ChE Conference and 55th TwIChE Annual Conference, p-PS4004.
15. Hau Lin, Chi-Wen Lo, Chen-Hsun Hu, Yu-An Li, Chin-Hou Li, and Liang-Chien Chang, November, 2008, "A Factorial Design for Analysis of the Effect of Reaction Parameters on the Sensitivity of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Meldola's Blue", 2008 Taiwan/Korea/Japan ChE Conference and 55th TwIChE Annual Conference, p-PS4005.
16. Hau Lin, Yi-Sheng Wang, Chen-Hsun Hu, Hsu-Jen Lu, Chin-Hou Li, and Liang-Chien Chang, December, 2008, "Preparation of Carbon Paste Electrode Modified with Platinum Particles and Ferrocene and Its Application to Glucose Biosensor", Chemical Society Located in Taipei Annual Meeting 2008, p-AC006.
17. Hau Lin, Kuo-Hsiang Liao, Chen-Hsun Hu, Chun-Yu Cheng, Chin-Hou Li, and Liang-Chien Chang, December, 2008, "A Study of the Effect of the Ratios of Ruthenium Hexacyanoferrate to Carbon Powders on the Sensitivity of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Ruthenium Hexacyanoferrate and Its Application to Glucose Biosensor", Chemical Society Located in Taipei Annual Meeting 2008, p-AC007.
18. Hau Lin, Chia-Cheng Hsiao, Chen-Hsun Hu, Chun-Hsien Huang, Chin-Hou Li, and Liang-Chien Chang, December, 2008, "The Effect of Stirring Rate on the Responding Current of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Copper Hexacyanoferrate", Chemical Society Located in Taipei Annual Meeting 2008, p-AC008.
19. Hau Lin, Pao-Tsai Kuo, Chen-Hsun Hu, Chun-Ting Hsu, Chin-Hou Li, and Liang-Chien Chang, December, 2008, "The Effect of Operating Potential on the Responding Current of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Ferrocene", Chemical Society Located in Taipei Annual Meeting 2008, p-AC009.
20. Hau Lin, Chi-Wen Lo, Chen-Hsun Hu, Yu-An Li, Chin-Hou Li, and Liang-Chien Chang, December, 2008, "The Effect of pH of Buffer Solution on the Responding Current of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Meldola's Blue", Chemical Society Located in Taipei Annual Meeting 2008, p-AC010.

21. Hau Lin, Chen-Hsun Hu, Chin-Hou Li, and Liang-Chien Chang, December, 2008, "The Effect of Reaction Parameters on the Responding Current of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Chromium Hexacyanoferrate", Chemical Society Located in Taipei Annual Meeting 2008, p-AC011.
22. Hau Lin, Pao-Tsai Kuo, Chen-Hsun Hu, and Chun-Ting Hsu, June, 2009, "A Factorial Design for Analysis of the Main Effects of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Ferrocene", The 14 th Conference on Biochemical Engineering, p-PV-1.
23. Hau Lin, Kuo-Hsiang Liao, Chen-Hsun Hu, and Chun-Yu Cheng, June, 2009, "A Study of Detection of Hydrogen Peroxide and Glucose for the Carbon Paste Electrode Modified with Ruthenium Hexacyanoferrate", The 14 th Conference on Biochemical Engineering, p-PV-2.
24. Hau Lin, Chia-Cheng Hsiao, Chen-Hsun Hu, and Chun-Hsien Huang, June, 2009, "An Experimental Design for Analysis of the Main Effects of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Copper Hexacyanoferrate", The 14 th Conference on Biochemical Engineering, p-PV-3.
25. Hau Lin, Chi-Wen Lo, Chen-Hsun Hu, and Yu-An Li, June, 2009, "An Experimental Design for Analysis of Detection of the Average Responding Current of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Meldola's Blue", The 14 th Conference on Biochemical Engineering, p-PV-4.
26. Hau Lin, Yi-Sheng Wang, Chen-Hsun Hu , and Hsu-Jen Lu, June, 2009, "Preparation of the Carbon Paste Electrode Modified with Ferrocene and Its Applications to Detection of Hydrogen Peroxide and Glucose", The 14 th Conference on Biochemical Engineering, p-PV-9.
27. Hau Lin, Chen-Hsun Hu, and Chien-Wen Kuo, June, 2009, "The Effect of Operating Potential on the Sensitivity of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Chromium Hexacyanoferrate", The 14 th Conference on Biochemical Engineering, p-PV-11.
28. Hau Lin, Kuo-Hsiang Liao, Chen-Hsun Hu, and Ting-Li Lin, November, 2009, "A Study of Detection of Glucose for the Electrode Modified with Ruthenium Hexacyanoferrate", 2009 Taiwan Chemical Engineering Annual Conference, p-G016.
29. Hau Lin, Chia-Cheng Hsiao, Chen-Hsun Hu, and Ting-Li Lin, November, 2009, "An Analysis of Detection of Hydrogen Peroxide for Electrode Modified with Copper Hexacyanoferrate"2009 Taiwan Chemical Engineering Annual Conference, p-G017.
30. Hau Lin, Pao-Tsai Kuo, Chen-Hsun Hu, and Ting-Li Lin, November, 2009, "An Experimental Design for Detection of Hydrogen Peroxide for Electrode Modified with Ferrocene", 2009 Taiwan Chemical Engineering Annual Conference, p-G018.
31. Hau Lin, Chi-Wen Lo, Chen-Hsun Hu, and Ting-Li Lin, November, 2009, "The Stirring Rate on the Detection of Hydrogen Peroxide for Electrode Modified with Meldola's Blue", 2009 Taiwan Chemical Engineering Annual Conference, p-G019.
32. Hau Lin, Chen-Hsun Hu, and Ting-Li Lin, November, 2009, "The pH on the Detection of Hydrogen Peroxide for Electrode Modified with Chromium Hexacyanoferrate", 2009 Taiwan Chemical Engineering Annual Conference, p-G020.
33. Hau Lin, Yi-Sheng Wang, Chen-Hsun Hu, and Ting-Li Lin, November, 2009, "The Detection of Hydrogen Peroxide and Glucose for the Electrode Modified with Ferrocene", 2009 Taiwan Chemical Engineering Annual Conference, p-G022.
34. Hau Lin, Kuo-Hsiang Liao, Chen-Hsun Hu, and Ting-Li Lin, December, 2009, "The Effect of the pH of Phosphate Buffer Solution on the Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Ruthenium Hexacyanoferrate", 2009 Annual Meeting of Chemical Society Located in Taipei , p-AC-050.

35. Hau Lin, Chia-Cheng Hsiao, Chen-Hsun Hu, and Ting-Li Lin, December, 2009, "Statistical Analysis of the Main Effects and Interaction Effects of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Copper Hexacyanoferrate", 2009 Annual Meeting of Chemical Society Located in Taipei, p-AC-052.
36. Hau Lin, Pao-Tsai Kuo, Chen-Hsun Hu, and Ting-Li Lin, December, 2009, "A Study of Statistical Analysis of the Main Effects and Interaction Effects of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Ferrocene", 2009 Annual Meeting of Chemical Society Located in Taipei, p-AC-053.
37. Hau Lin, Chi-Wen Lo, Chen-Hsun Hu, and Ting-Li Lin, December, 2009, "The Effect of Ratio of Meldola's Blue to Carbon Powders and Carbon Paste on Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Meldola's Blue", 2009 Annual Meeting of Chemical Society Located in Taipei, p-AC-054.
38. Hau Lin, Chen-Hsun Hu, and Ting-Li Lin, December, 2009, "The Effect of Stirring Rate on theDetection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Chromium Hexacyanoferrate", 2009 Annual Meeting of Chemical Society Located in Taipei, p-AC-055.
39. Hau Lin, Ting-Li Lin and Chen-Hsun Hu, December, 2009, "The Effect of Operating Potential on the Sensitivity of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Cobalt Hexacyanoferrate", 2009 Annual Meeting of Chemical Society Located in Taipei, p-AC-056.
40. Hau Lin, Chen-Hsun Hu, Ting-Li Lin and Chung-Min Lien, November, 2010, "An Analysis of Variance of Reaction Parameters on Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Chromium Hexacyanoferrate", 2010 Annual Meeting of Materials Research Society-Taiwan, p-11-0056(pp.306).
41. Hau Lin, Ting-Li Lin and Chung-Min Lien, November, 2010, "The Detection of Hydrogen Peroxide at Different pH Values of Phosphate Solution for the Electrode Modified with Cobalt Hexacyanoferrate", 2010 Annual Meeting of Materials Research Society-Taiwan, p-11-0057(pp.307).
42. Hau Lin, Yi-Sheng Wang, Ting-Li Lin and Chung-Min Lien, November, 2010, "The Detection of Glucose and Interfering Substances for the Carbon Paste Electrode Modified with Ferrocene", 2010 Annual Meeting of Materials Research Society-Taiwan, p-11-0058(pp.307).
43. Hau Lin, Chi-Wen Lo, Ting-Li Lin and Chung-Min Lien, November, 2010, "The Operating Conditions for Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Meldola's Blue", 2010 Annual Meeting of Materials Research Society-Taiwan, p-11-0059(pp.308).
44. Hau Lin, Kuo-Hsiang Liao, Ting-Li Lin and Chung-Min Lien, November, 2010, "The Effect of Stirring Rate on Detection of Hydrogen Peroxide for the Electrode Modified with MediatorRuthenium Hexacyanoferrate", 2010 Annual Meeting of Materials Research Society -Taiwan, p-11-0060(pp.309).
45. Hau Lin, Yu-Feng Wang, Ting-Li Lin and Chung-Min Lien, November, 2010, "An Analysis of the Effect of Reaction Parameters on Detection of Hydrogen Peroxide for the Unmodified Carbon Paste Electrode ", 2010 Annual Meeting of Materials Research Society-Taiwan, p-11-0061(pp.309).

46. Hau Lin, Wen-Ke Su, Ting-Li Lin and Chung-Min Lien, June, 2011, "An Analysis of Dynamics of the Prey-Predator Interaction in a Chemostat ", 16 th Conference on Biochemical Engineering, p-P3-18(pp.291).
47. Hau Lin, Hsien-Chih Lin, Ting-Li Lin and Chung-Min Lien, June, 2011, "Dynamics and Steady States of Two Chemostats in Series", 16 th Conference on Biochemical Engineering, p-P3-19(pp.292).
48. Hau Lin, Hsiang-Yun Wang, Ting-Li Lin and Chung-Min Lien, June, 2011, "Dynamics of the Prey-Predator Interaction for Two Continuous Cultures in Series", 16 th Conference on Biochemical Engineering, p-P3-20(pp.293).
49. Hau Lin, Shan-Cheng Chyou, Ting-Li Lin and Chung-Min Lien, June, 2011, "Steady States and Dynamic Behavior of a Chemostat ", 16 th Conference on Biochemical Engineering, p-P3-21(pp.294).
50. Hau Lin, Chung-Te Liu, Ting-Li Lin and Chung-Min Lien, June, 2011, "The Effect of the Dilution Rate on the Dynamics of a Chemostat", 16 th Conference on Biochemical Engineering, p-P3-22(pp.295).
51. Hau Lin, Meng-Cheng Cheng, Ting-Li Lin and Chung-Min Lien, June, 2011, "The Effect of the Substrate Concentration of the Feed on the Steady States and Dynamics of a Chemostat", 16 th Conference on Biochemical Engineering, p-P3-23(pp.296).
52. Hau Lin, Kuo-Hsiang Liao, Ting-Li Lin and Chung-Min Lien, June, 2011, "A Study of the Effect of Operating Potential on Detection of Hydrogen Peroxide for the Electrode Modified with Ruthenium Hexacyanoferrate", 16 th Conference on Biochemical Engineering, p-P3-54(pp.325).
53. Hau Lin, Chun-Yu Cheng, Ting-Li Lin and Chung-Min Lien, June, 2011, "A Two Factors Analysis of Reaction Parameters on Detection of Hydrogen Peroxide for the Electrode Modified with Chromium Hexacyanoferrate", 16 th Conference on Biochemical Engineering, p-P3-55(pp.326).
54. Hau Lin, Chi-Wen Lo, Ting-Li Lin and Chung-Min Lien, June, 2011, "An Analysis of the Effects of Average Responding Current on Detection of Hydrogen Peroxide for the Electrode Modified with Meldola's Blue", 16 th Conference on Biochemical Engineering, p-P3-56(pp.327).
55. Hau Lin, Chung-Min Lien and Ting-Li Lin, June, 2011, "The Effect of Operating Potential on Detection of Hydrogen Peroxide for the Electrode Modified with Nickel Hexacyanoferrate", 16 th Conference on Biochemical Engineering, p-P3-57(pp.328).
56. Hau Lin, Chen-Hsun Hu, Ting-Li Lin and Chung-Min Lien, June, 2011, "The Effect of Ratio on Detection of Hydrogen Peroxide for the Carbon Paste Electrode", 16 th Conference on Biochemical Engineering, p-P3-58(pp.329).
57. Hau Lin, Ting-Li Lin and Chung-Min Lien, June, 2011, "The Effect of Stirring Rate on Detection of Hydrogen Peroxide for the Electrode Modified with Cobalt Hexacyanoferrate", 16 th Conference on Biochemical Engineering, p-P3-59(pp.330).
58. Hau Lin, Yi-Sheng Wang, and Chung-Min Lien, November, 2011, "A Study of Application of Carbon Paste Electrode Modified with Ferrocene and Platinum Nanoparticles to the Hydrogen Peroxide Sensor", 2011 International Symposium on Nano Science and Technology, pp.46-47.
59. Hau Lin, Ting-Li Lin, and Chung-Min Lien, November, 2011, "The Optimum Operating Conditions for Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Cobalt Hexacyanoferrate", 2011 Taiwan Chemical Engineering Annual Conference, p-F-021.

60. Hau Lin and Chung-Min Lien, November, 2011,“The Effect of pH of Phosphate Solution on Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Nickel Hexacyanoferrate”, 2011 Taiwan Chemical Engineering Annual Conference, p-F-022.
61. Hau Lin, Chen-Hsun Hu, and Chung-Min Lien, November, 2011, “The Operating Parameters for Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Chromium Hexacyanoferrate”, 2011 Taiwan Chemical Engineering Annual Conference, p-F-023.
62. Hau Lin, Kuan-Wen Chang, and Chung-Min Lien, November, 2011, “Application of Factorial Design to Calculate the Effects of Detection of Hydrogen Peroxide for the Carbon Paste Electrode Modified with Cobalt Hexacyanoferrate”, 2011 Taiwan Chemical Engineering Annual Conference, p-F-024.
63. Hau Lin, Chia-Cheng Hsiao, and Chung-Min Lien, November, 2011,“Statistical Analysis of Detecting the Average Responding Current of Hydrogen Peroxide for Electrode Modified with Copper Hexacyanoferrate”, 2011 Taiwan Chemical Engineering Annual Conference, p-F-025.
64. Hau Lin, Chun-Yu Cheng, and Chung-Min Lien, November, 2011,“Application of Experimental Design to Analyze the Effect of Reaction Parameters on the Detection of Hydrogen Peroxide for the Carbon Paste Electrode”, 2011 Taiwan Chemical Engineering Annual Conference, p-F-026.
65. Hau Lin, Hsiang-Yun Wang, and Chung-Min Lien, June, 2012, “Dynamic Behavior and Stability Analysis for Two Continuous Cultures in Series”, 17 th Conference on Biochemical Engineering, pp.120 (p-P1-44).
66. Hau Lin, Hsien-Chih Lin, and Chung-Min Lien, June, 2012, “The Effect of the Substrate Concentration of Feed on the Dynamics of Two Chemostats in Series”, 17 th Conference on Biochemical Engineering, pp.121 (p-P1-45).
67. Hau Lin, Wen-Ke Su, and Chung-Min Lien, June, 2012, “Dynamics and Stability Analysis of the P rey-Predator Interaction in a Chemostat”, 17 th Conference on Biochemical Engineering, pp.122 (p-P1-46).
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