

行政院國家科學委員會專題研究計畫 成果報告

國立臺灣大學貴重儀器使用中心服務計畫 氦氣回收液化

計畫類別：個別型計畫

計畫編號：NSC91-2731-M-002-001-

執行期間：91年01月01日至92年06月30日

執行單位：國立臺灣大學化學系暨研究所

計畫主持人：林英智

共同主持人：楊鴻昌

報告類型：完整報告

處理方式：本計畫可公開查詢

中 華 民 國 93 年 2 月 25 日

氮氣回收液化運作計畫執行成效及結案報告

執行成果報告：

1. 氮氣回收液化運作計畫係92年1月1日至92年12月31日國科會補助北區研究單位及學校從事低溫研究回收氮氣再液化之運作計畫。此計畫核定經費共一百一十萬。
2. 執行此計畫之名單位有台大物理系、凝態中心及中央研究院物理所等，液氮使用名單如下表。自92年1月1日至92年12月31日，回收氮氣再液化共10660升，氮氣再液化每升 111.75 元。氣氣回收再液化使用名單如下表。
3. 近年因從事低溫研究之計畫越來越多，使得經費不足。
4. 檢附使用者近兩年之研究成果，如附件。

液氮使用名單名單

92.1.1至92.12.31本計劃主要使用者使用量		
使用者單位	使用者姓名	回收量(升)
中央研究院物理所	陳洋元、陳啟東等教授	5875.0
國立台灣大學貴重儀器中心	楊鴻昌	2634.5
國立台灣大學物理系	張顏暉	217.25
國立台灣大學物理系	梁啟德	1006.5
國立台灣大學物理系	陳永芳	465.00
國立台灣大學凝態中心	鄭鴻祥	363.00
國立台灣大學凝態中心	莊東榮	98.75
總計		10660

使用者	陳洋元等	楊鴻昌	張顏暉	梁啟德	陳永芳	鄭鴻祥	莊東榮	小計	
月份 — 回收量 (升)	1	220	159.5	0	88	126.5	0	0	594
	2	446.5	143	33	203.5	0	38.5	0	864.5
	3	834.5	242	44	231	0	38.5	0	1390
	4	284.5	363	0	66	99	0	22	834.5
	5	673	308	11	22	0	27.5	11	1052.5
	6	712	319	0	0	0	33	22	1086
	7	569.5	225.5	27.5	0	14	0	8	844.5
	8	272	231	0	0	0	0	0	503
	9	362	253	0	66	225.5	71.5	0	978
	10	336.5	126.5	55	121	0	38.5	11	688.5
	11	504.5	165	44	27.5	0	33	11	785
	12	660	99	2.75	181.5	0	82.5	13.75	1039.5
總計	5875	2634.5	217.25	1006.5	465	363	98.75	10660	

氮氣回收液化運作計畫發表之相關論文：

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