

Captions for the Figures

<u>Fig.No.</u>	<u>Title</u>	<u>Page</u>
1	Adsorption column chromatography apparatus	39
2	Cross-Section of El.cell	42
3	Block diagram of experimental set-up	45
4	Spectral energy distribution of El. emission for pure anthracene at various excitation voltages and frequencies	50
5	Spectral energy distribution of El. emission for pure pyrene at various excitation voltages and frequencies	52
6	Spectral energy distribution of El. emission for pure perylene at different excitation voltages and frequencies	57
7	Spectral energy distribution of El. emission for anthracene doped by pyrene at different dopant concentrations at 700 V and 1500 HZ frequency	62
8	Spectral energy distribution of El. emission for anthracene doped by pyrene (10^{-2} mole of pyrene per mole of anthracene) at different excitation voltages and frequencies	65
9	Spectral energy distribution of El. emission for anthracene doped by pyrene (5×10^{-2} mole of pyrene per mole) at different excitation voltages and frequencies	67

10	Spectral energy distribution of El. emission of anthracene doped by pyrene (10^{-1} mole/mole anthracene) at different excitation voltages and frequencies	69
11	Spectral energy distribution of El. emission of microcrystalline pyrene powder containing perylene as contaminant at 700 V and 1500 Hzs frequency	74
12	Spectral energy distribution of El. emission of pyrene doped by perylene (10^{-2} mole perylene per mole pyrene) at different excitation voltages and frequencies	77
13	Spectral energy distribution of El. emission of pyrene doped by perylene (5×10^{-2} mole perylene per mole pyrene) at different excitation voltages and frequencies	79
14	Spectral energy distribution of El. emission of pyrene doped by perylene (10^{-1} mole perylene per mole pyrene) at different excitation voltages and frequencies	81
15	Voltage dependence of El. emission for pure anthracene at different frequencies	87
16	Frequency dependence of El. emission for a blue emitting pure anthracene at different voltages	88
17	Dependence of $\log B$ as a function of $V^{-0.5}$ for various frequencies (blue El. anthracene)	89

18	Dependence of $\log B/V$ as a function of $V^{-0.5}$ for various frequencies (blue El. of pure anthracene)	90
19	Voltage dependence of El. emission for pure pyrene at different frequencies	92
20	Frequency dependence of El. emission for pure pyrene at different voltages	93
21	Dependence of $\log B$ as a function of $V^{-0.5}$ for various frequencies (pure pyrene)	94
22	Dependence of $\log B/V$ as a function of $V^{-0.5}$ for various frequencies bluish green El. of pyrene	95
23	Voltage dependence of El. emission of anthracene at different concentrations of pyrene as a dopant	97
24	Frequency dependence of El. emission of anthracene at different concentrations of pyrene as dopant	106
25	Voltage dependence of El. emission for pure perylene at different frequencies	99
26	Frequency dependence of El. emission for pure perylene at different voltages	100
27	Dependence of $\log B$ as a function of $V^{-0.5}$ for various frequencies (pure perylene)	101
28	Dependence of $\log B/V$ as a function of $V^{-0.5}$ for various frequencies (yellow El. of pure perylene)	102
29	Voltage dependence of El. emission of pyrene at different concentration of perylene as dopant	104
30	Frequency dependence of El. emission of pyrene at different concentration of perylene as dopant	108
31	Voltage dependence of El. efficiency of various organic compounds at various frequencies.	118