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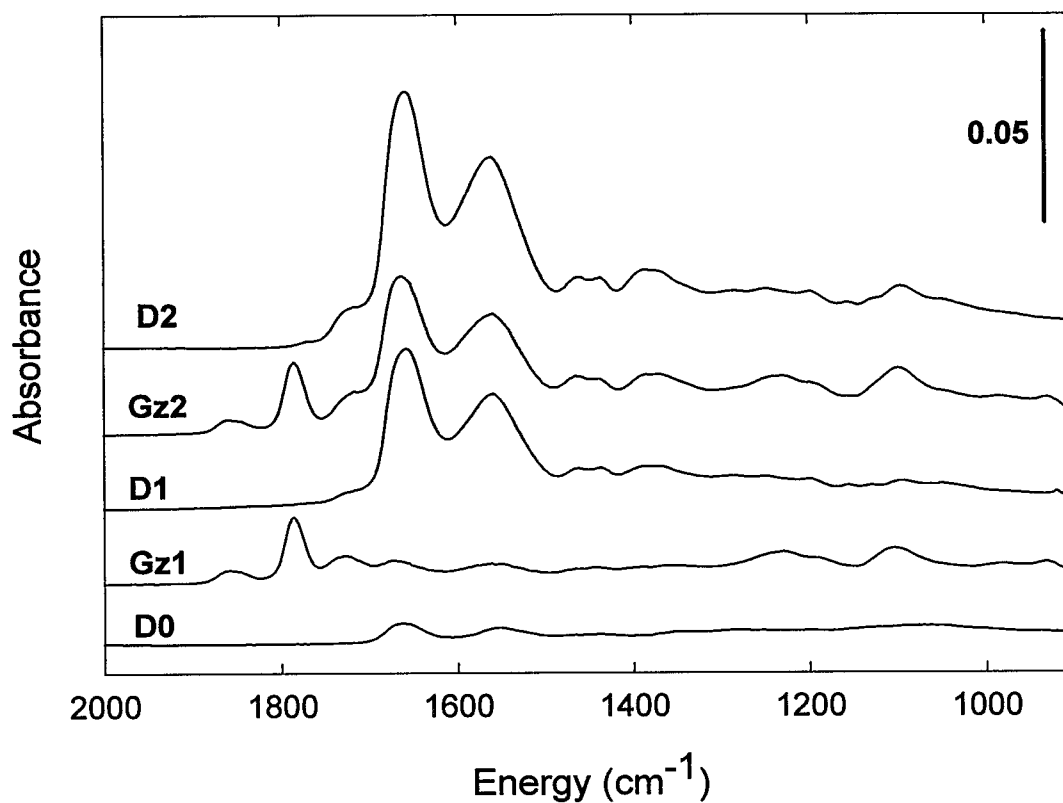
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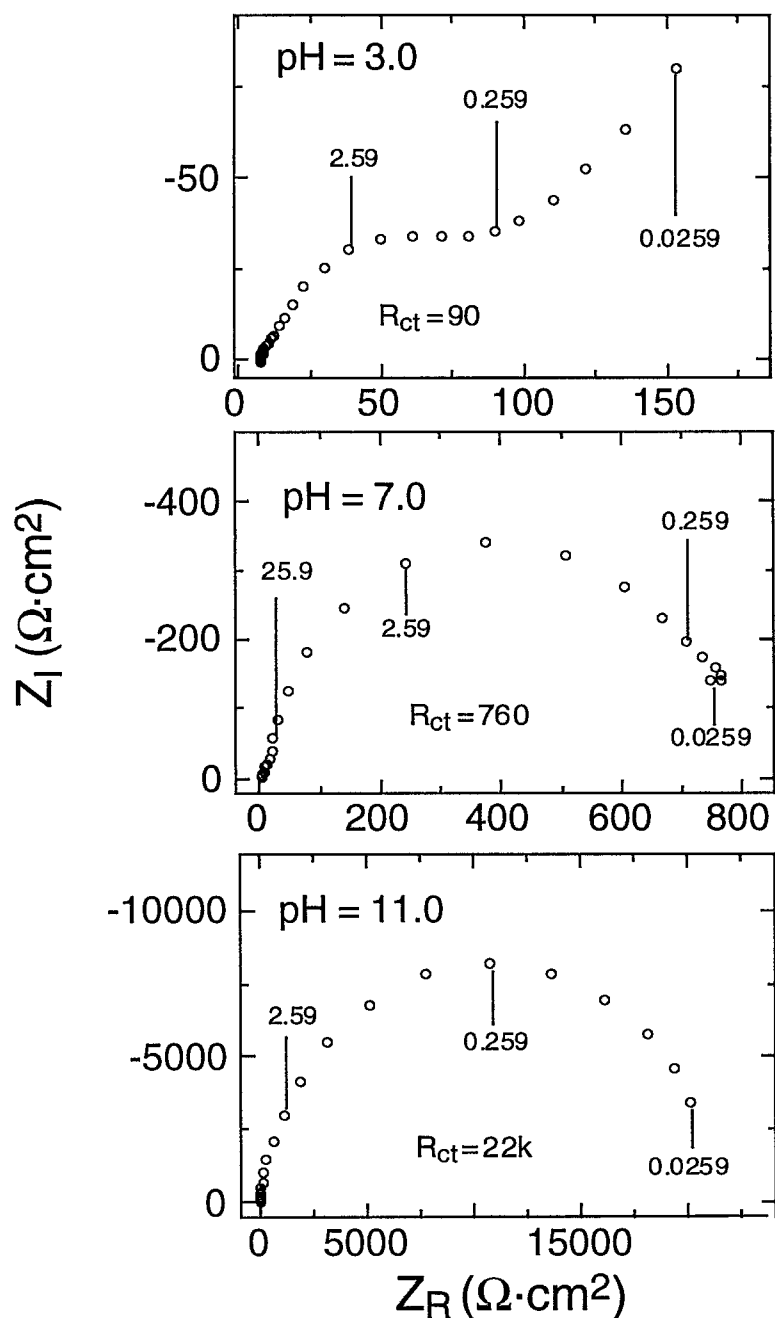
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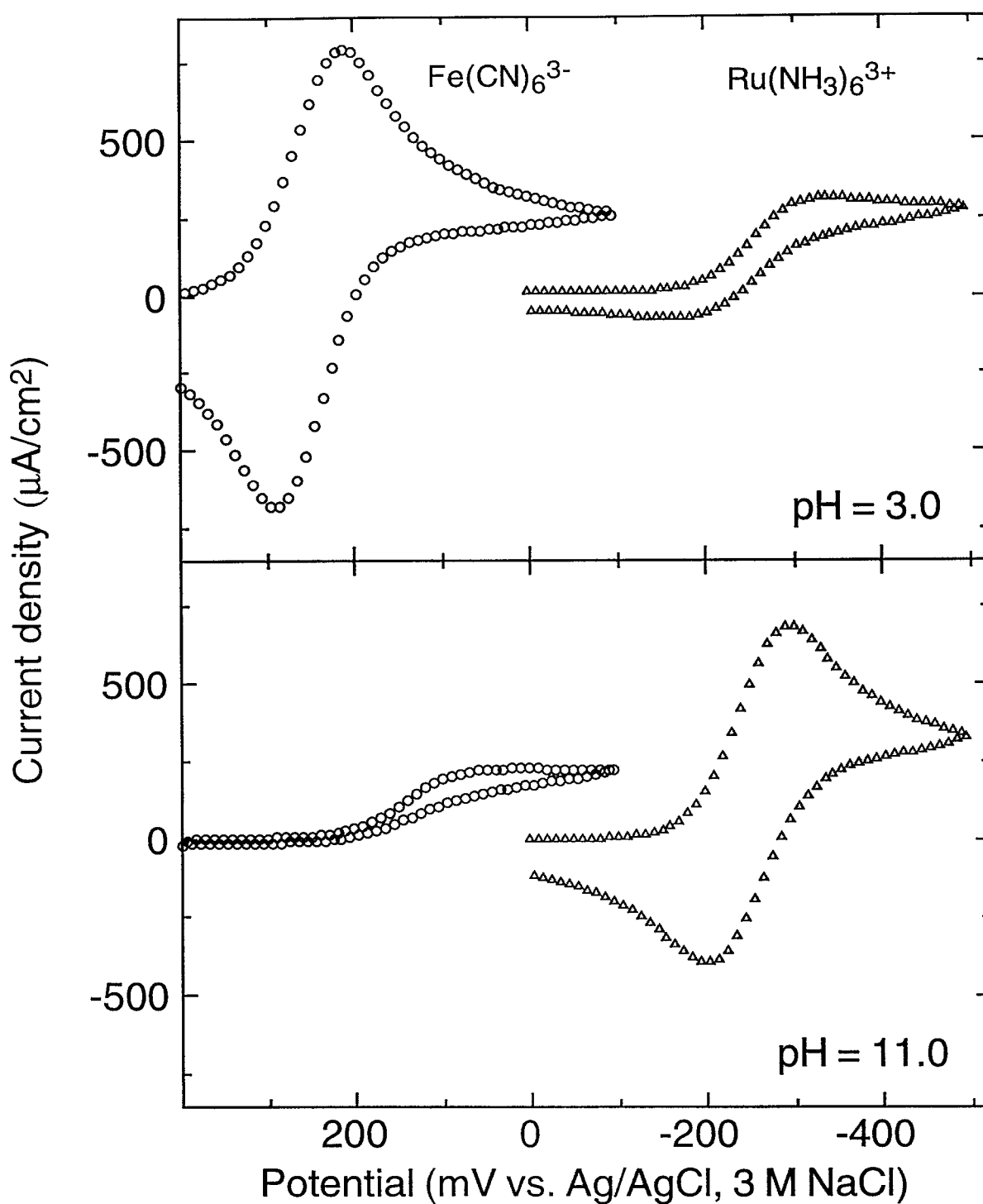
FTIR-external reflectance spectra of multilayer composite thin films consisting of the G4 PAMAM dendrimer and Gantrez™ on Au-coated Si wafers at different grafting stage: D0, Gz1, D1, Gz2, and D2. The spectra were obtained at a resolution of 4 cm^{-1} with 256 scans, and at a grazing angle of 85° using a Harrick Seagull reflection attachment.

Figure 1s / Liu *et al.*



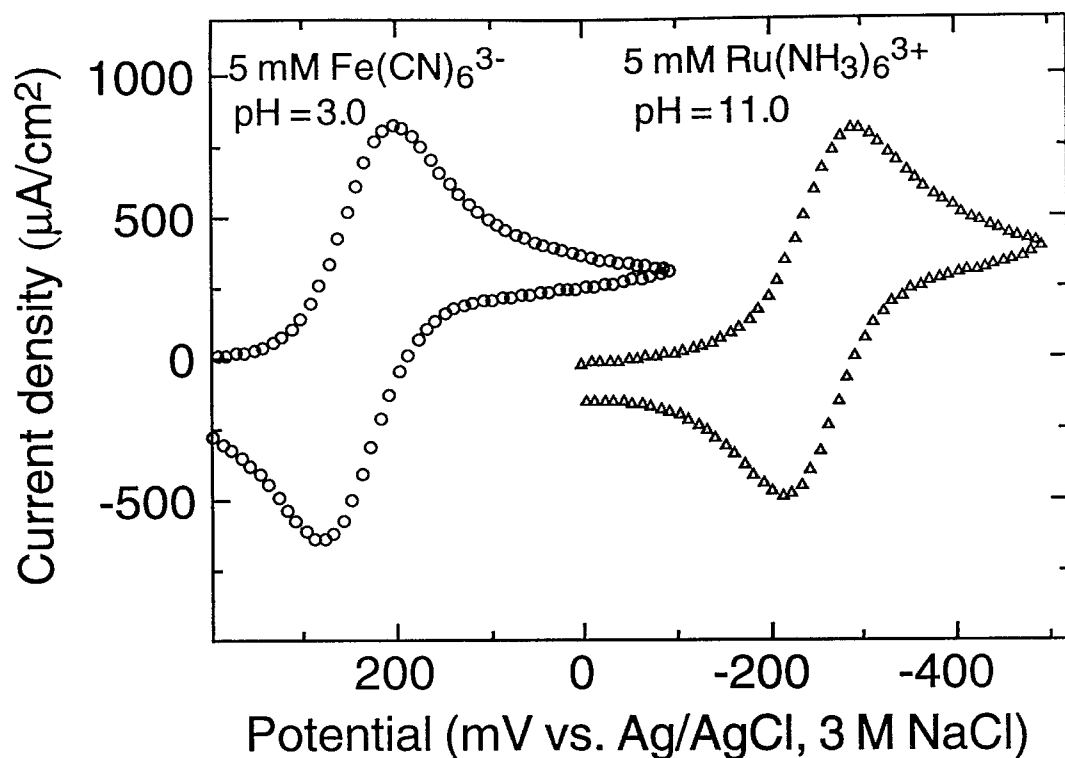
Plots of complex impedance at many frequencies (Hz) for electrodes modified with D2 films in 0.5 M aqueous Na_2SO_4 containing 5 mM $\text{Fe}(\text{CN})_6^{3-/4-}$ at pH=3.0 (0.2 M CH_3COOH + 0.0036 M CH_3COONa), pH=7.0 (0.025 M NaH_2PO_4 + 0.030 M Na_2HPO_4),and pH=11.0 (0.25 M Na_2CO_3 +0.025 M NaHCO_3). Electrode area: 0.09 cm^2 . All the experiments are carried out at the potential of E^0 of $\text{Fe}(\text{CN})_6^{3-/4-}$ (Appx. 260 mV vs. Ag/AgCl, 3 M NaCl).

Figure 2s / Liu et al



Cyclic voltammetry of electrodes modified with D1 films in 0.5 M aqueous Na_2SO_4 electrolyte solutions containing 5 mM Fe(CN)_6^{3-} or $\text{Ru(NH}_3)_6^{3+}$ at pH=3.0 (0.2 M CH_3COOH + 0.0036 M CH_3COONa), and pH=11.0 (0.25 M Na_2CO_3 + 0.025 M NaHCO_3). Scan rate: 50 mV/s. Electrode area: 0.09 cm².

Figure 3s / Liu et al.



Cyclic voltammetry of naked Au in 0.5 M aqueous Na_2SO_4 electrolyte solutions containing 5 mM $\text{Fe}(\text{CN})_6^{3-}$ or $\text{Ru}(\text{NH}_3)_6^{3+}$ at pH=3.0 (0.2 M CH_3COOH + 0.0036 M CH_3COONa), and pH=11.0 (0.25 M Na_2CO_3 + 0.025 M NaHCO_3). Scan rate: 50 mV/s. Electrode area: 0.09 cm^2 .

Figure 4s / Liu et al.