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Polyethylene Glycol 20k. Does it Fluoresce?

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Table S1. Percent decrease of the fluorescent intensity due to metal ions observed in the PEG 20k versus 3-BHA (5 nM). The concentration of all metal ions solution was maintained at 10 mM.

Metal ions	Percentage decrease in PEG 20k	Percentage decrease in 3-BHA
Na⁺	0	93
Mg²⁺	0	94
Co²⁺	0	70
Cr³⁺	7	82
Fe³⁺	100	100
Cr⁶⁺	100	100

Figure S1. Emission spectra of 100 mg/mL PEG 20k in water.

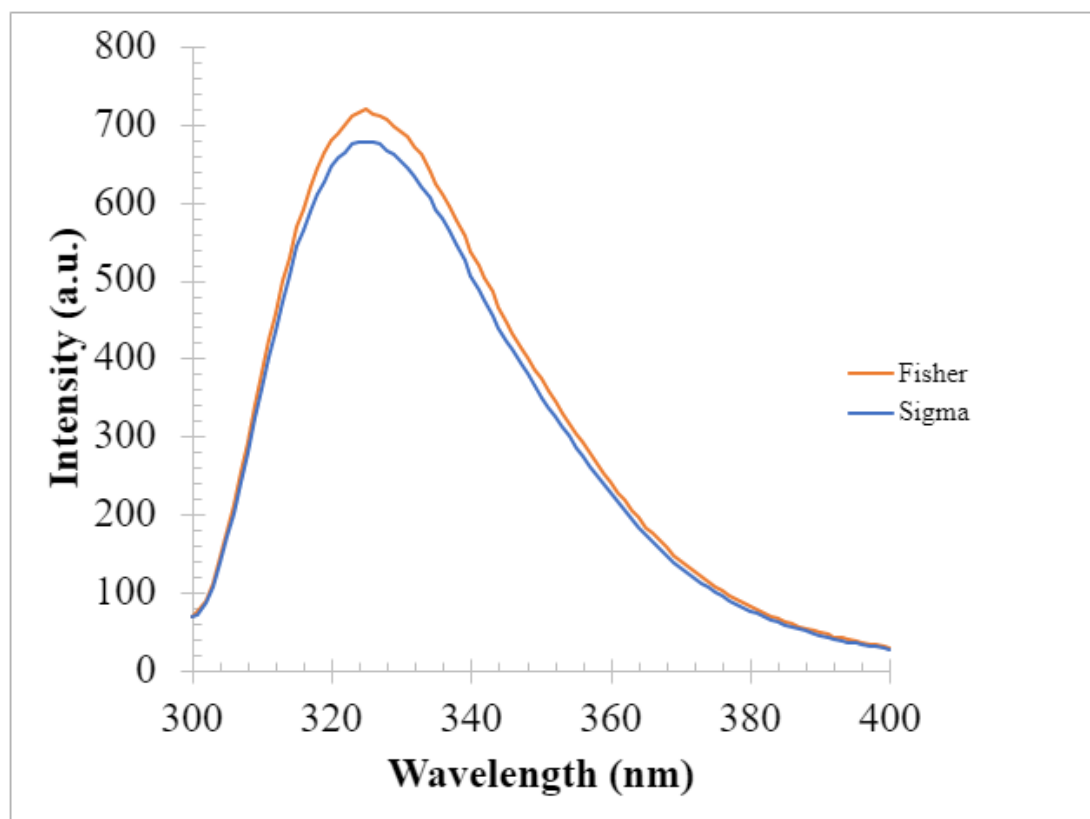


Figure S2. Emission spectra of 100 mg/mL PEG of different molecular weights in water alone over a range of excitation wavelengths, 210-300 nm.

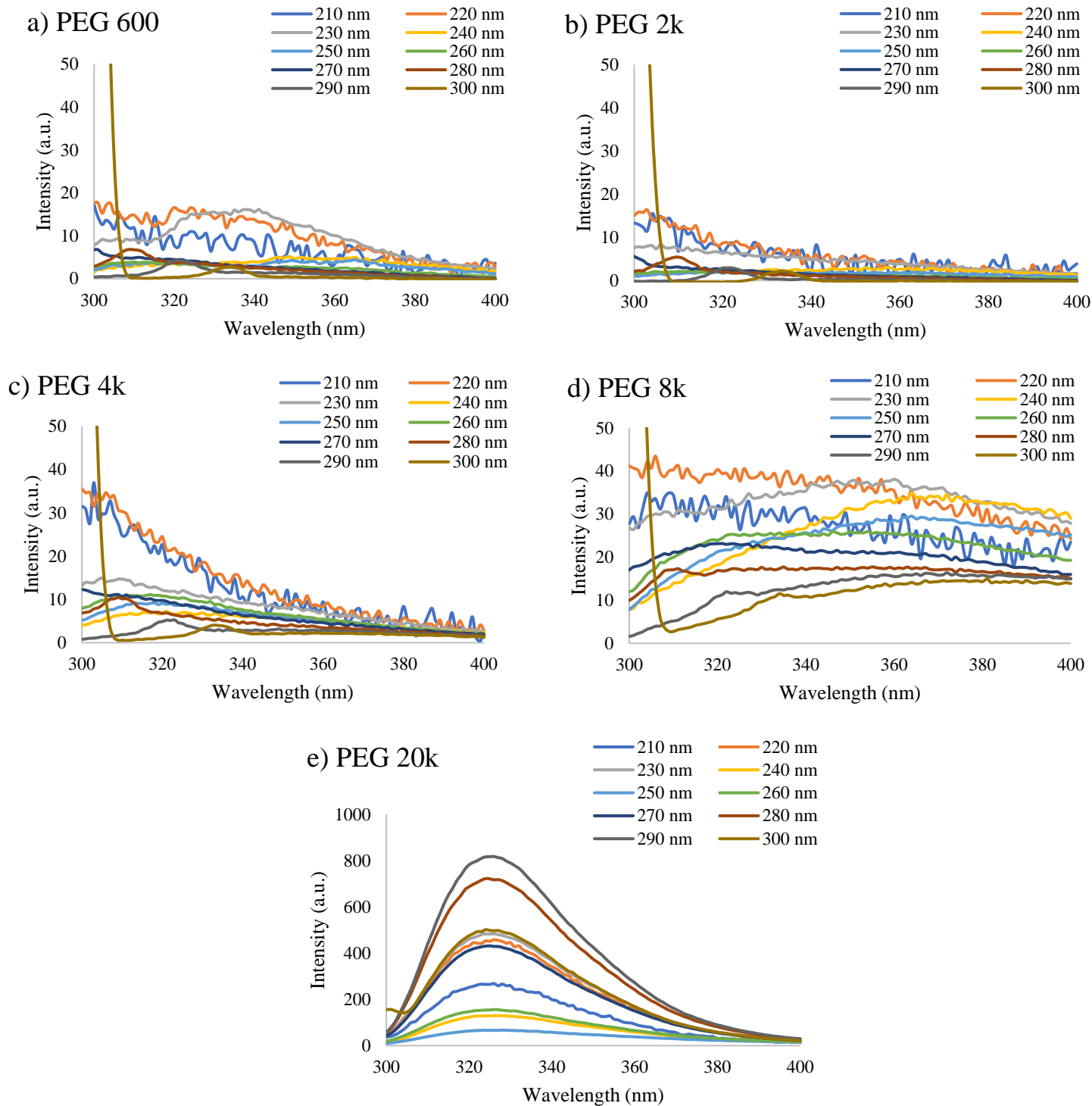
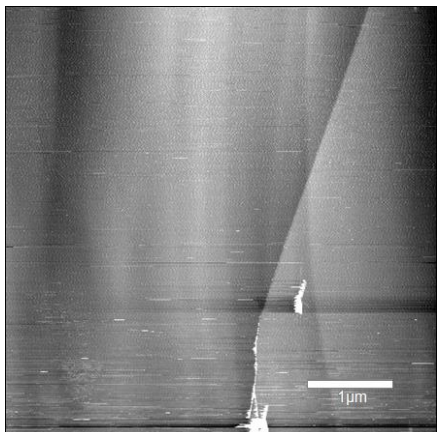


Figure S3. AFM images (height-retraced) of the pure HOPG substrate. a) AFM image size is 5 μm x 5 μm ; the key indicates a length of 1 μm . b) AFM image size is 0.45 μm x 0.45 μm ; the key indicates a length of 450 nm.

a) HOPG Substrate - 5 micron



b) HOPG Substrate - Zoomed-in on image (a), 0.45 micron

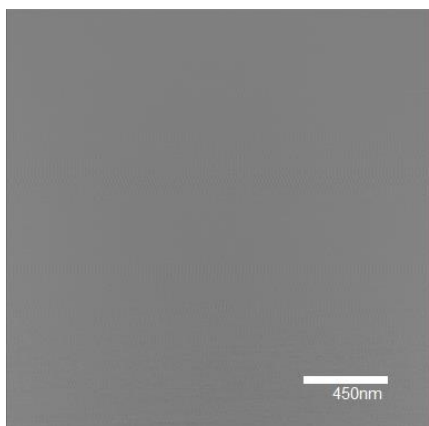


Figure S4. UV-Vis spectra of 30 mg/mL and 300 mg/mL of PEG 20k in water.

