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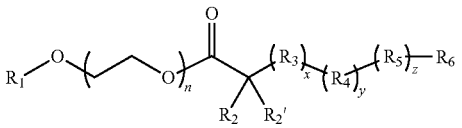
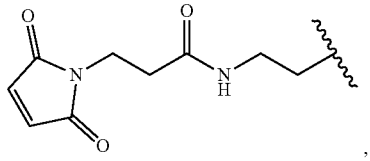
1. A polymer of the formula:

(I)



wherein:

R_1 is hydrogen, alkyl$_{(C\leq12)}$, cycloalkyl$_{(C\leq12)}$, substituted alkyl$_{(C\leq12)}$, substituted cycloalkyl$_{(C\leq12)}$, or



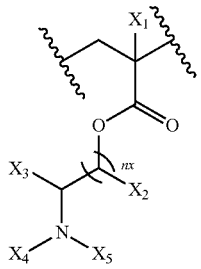
or a metal chelating group;

n is an integer from 1 to 500;

R_2 and R_2' are each independently selected from hydrogen, alkyl$_{(C\leq12)}$, cycloalkyl$_{(C\leq12)}$, substituted alkyl$_{(C\leq12)}$, or substituted cycloalkyl$_{(C\leq12)}$;

R_3 is a group of the formula:

(II)



wherein:

n_x is 1-10;

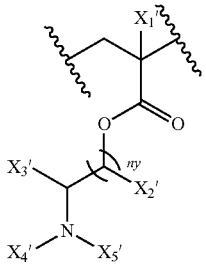
X_1, X_2, and X_3 are each independently selected from hydrogen, alkyl$_{(C\leq12)}$, cycloalkyl$_{(C\leq12)}$, substituted alkyl$_{(C\leq12)}$, or substituted cycloalkyl$_{(C\leq12)}$; and

X_4 and X_5 are each independently selected from alkyl$_{(C\leq12)}$, cycloalkyl$_{(C\leq12)}$, aryl$_{(C\leq12)}$, heteroaryl$_{(C\leq12)}$ or a substituted version of any of these groups, or X_4 and X_5 are taken together and are alkanediyl$_{(C\leq12)}$, alkoxydiyl$_{(C\leq12)}$, alkylaminodiyl$_{(C\leq12)}$, or a substituted version of any of these groups;

x is an integer from 1 to 150;

R_4 is a group of the formula:

(III)



wherein:

n_y is 1-10;

X_1', X_2', and X_3' are each independently selected from hydrogen, alkyl$_{(C\leq12)}$, cycloalkyl$_{(C\leq12)}$, substituted alkyl$_{(C\leq12)}$, or substituted cycloalkyl$_{(C\leq12)}$; and

X_4' and X_5' are each independently selected from alkyl$_{(C\leq12)}$, cycloalkyl$_{(C\leq12)}$, aryl$_{(C\leq12)}$, heteroaryl$_{(C\leq12)}$ or a substituted version of any of these