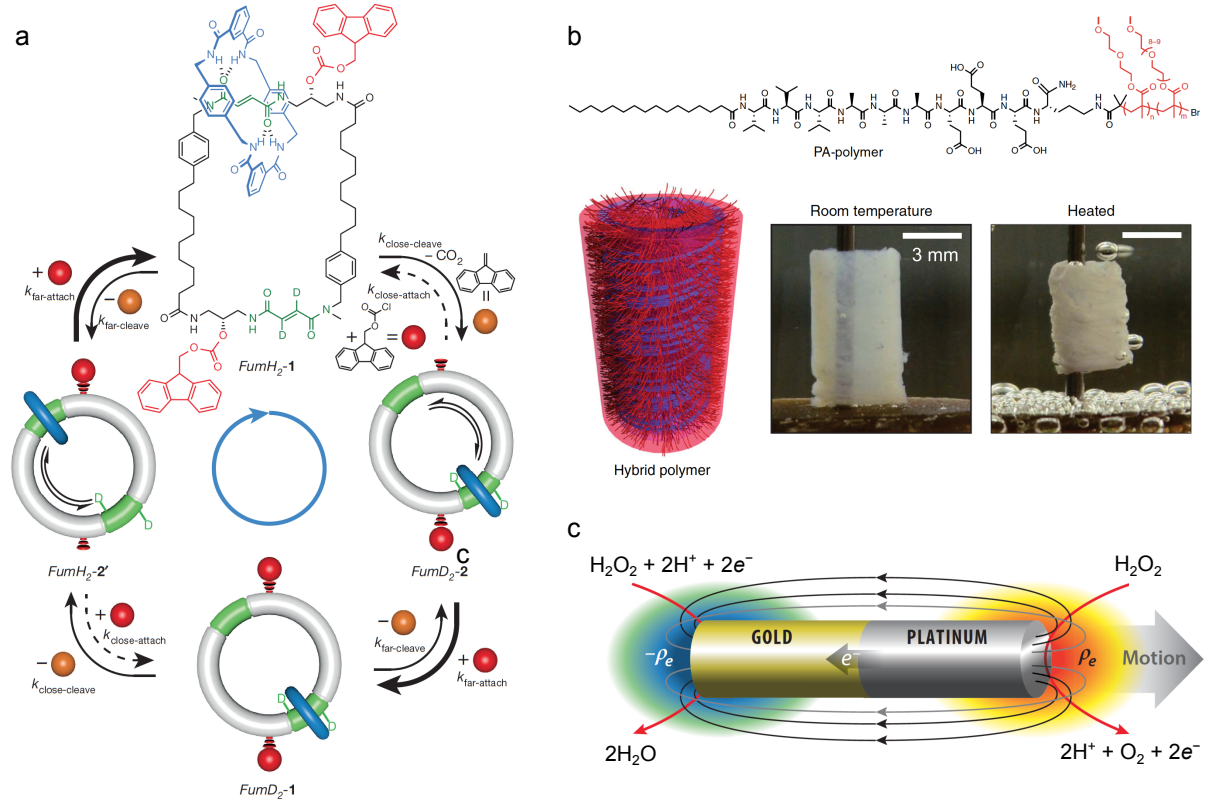
a
$k_{far\text{-}attach}$
$k_{far\text{-}cleave}$
$k_{close\text{-}cleave}$
$-CO_2$
$k_{close\text{-}attach}$
$FumH_2$-1
$FumH_2$-2′
$FumD_2$-2
$FumD_2$-1
b
PA-polymer
Hybrid polymer
Room temperature
Heated
3 mm
c
$H_2O_2 + 2H^+ + 2e^-$
H_2O_2
GOLD
PLATINUM
$-\rho_e$
e^-
ρ_e
Motion
$2H_2O$
$2H^+ + O_2 + 2e^-$