

Molecular Docking and Antibacterial Activity of One-Pot Synthesized Novel Polyaniline Substituted Imidazole (PANI-Imidazole) Copolymer

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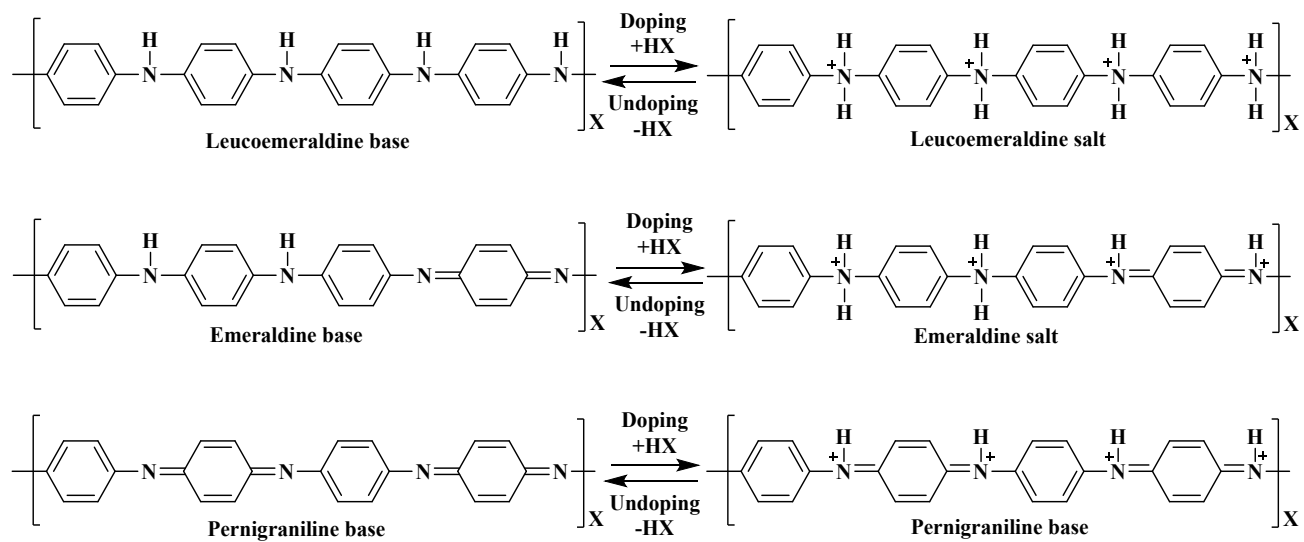
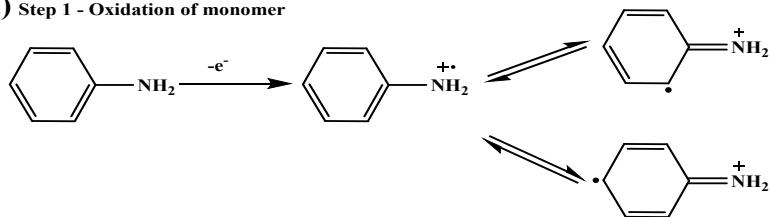
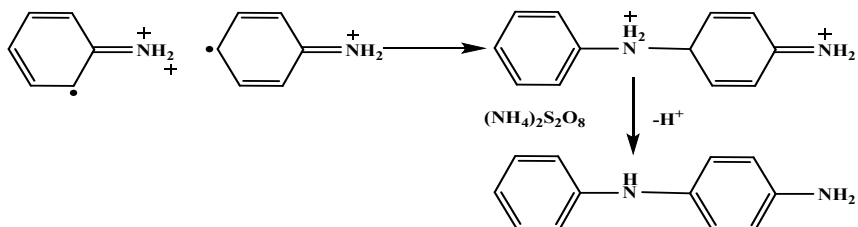


Figure S1: Various redox structures of polyaniline

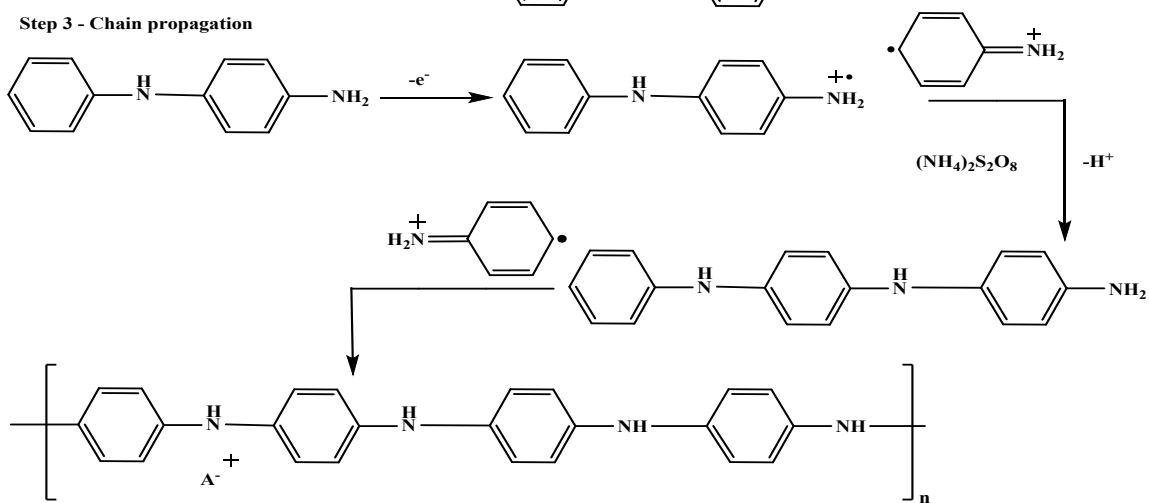
(a) Step 1 - Oxidation of monomer



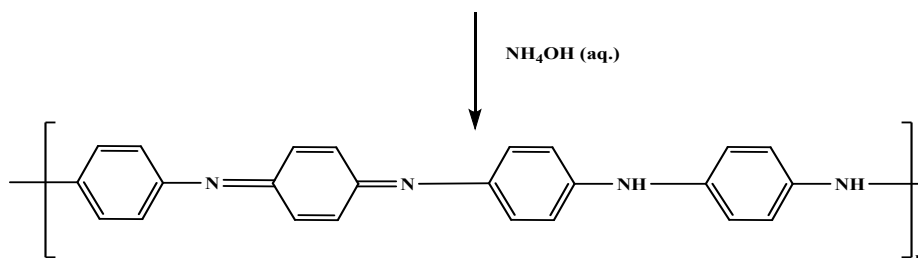
Step 2 - Radical coupling and rearomatization



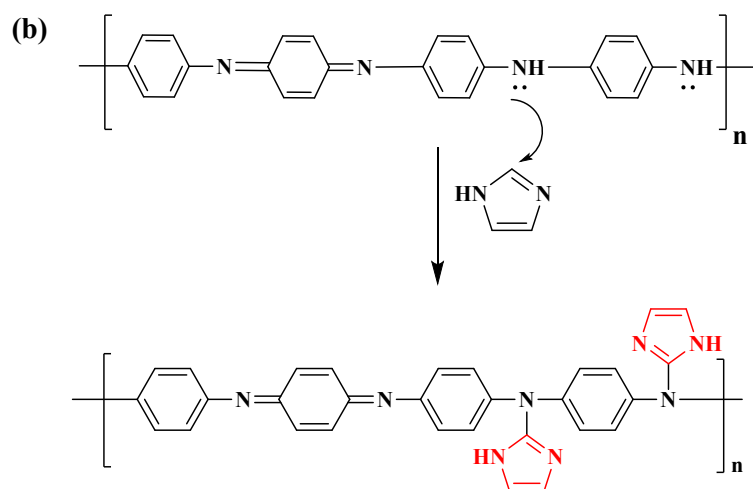
Step 3 - Chain propagation



Emeraldine Salt (ES)



Emeraldine Base (EB)



Scheme S1: (a) Mechanism of chemical oxidative polymerization of aniline to polyaniline
 (b) PANI to PANI-Imidazole

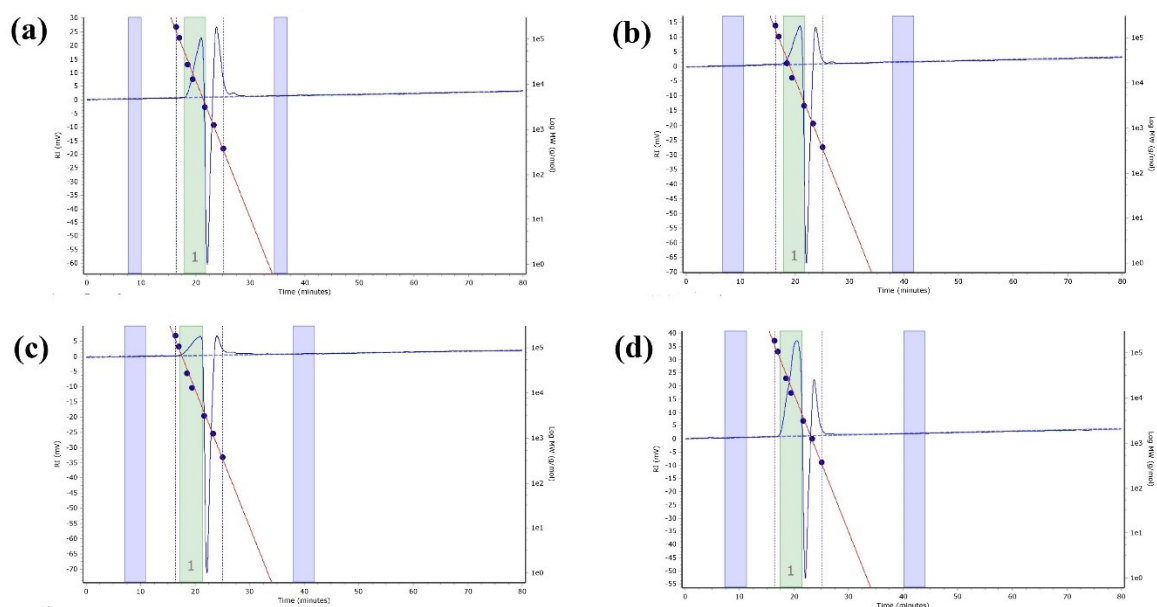


Figure S2: GPC graph of (a) PANI (b) PANI-Imidazole (1:1) (c) PANI-Imidazole (1:2) (d) PANI-Imidazole (2:1) copolymers