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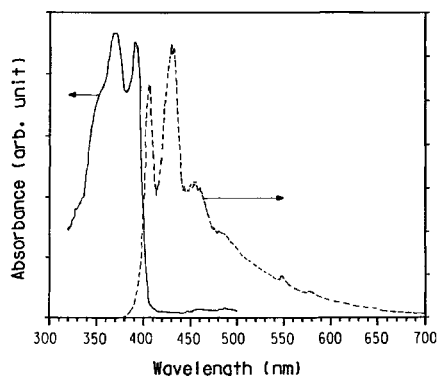
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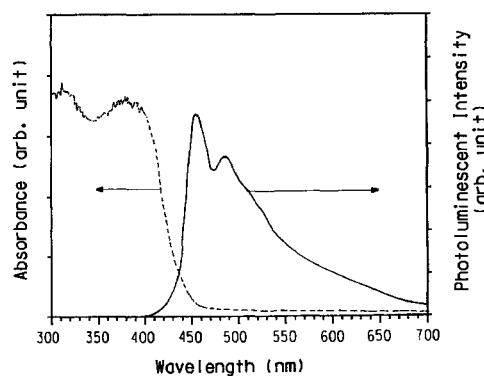
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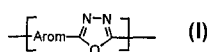
(54) **Title: SOLUBLE POLY(ARYL-OXADIAZOLE) CONJUGATED POLYMERS**



a



b



(57) **Abstract:** This invention discloses a class of soluble poly(arylene-oxadiazole) polymers and copolymers comprising from 3 to 300 repeat units, which may be the same or different, represented by the formula: (I) wherein Arom can be a fluorene group, an aromatic hydrocarbon ring, an aromatic C₂⁺ heterocyclic ring, or two aromatic rings linked by a single bond, ethenyl bond, or ethynyl bond. A process for preparing the polymers and copolymers by reacting dicarboxylic acids and hydrazine salt is provided. The polymers are useful in electroluminescent devices, photovoltaic cells, and diodes.