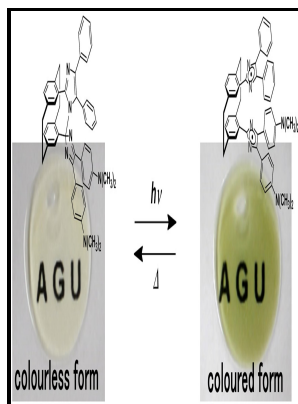


Applied photochromic polymer systems

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Functional Polymer Systems with Aggregation

Apart from the abovementioned applications, the photo-responsiveness of AIE-based polymer systems can also find applications in anti-counterfeiting materials, super-resolution fluorescent imaging agents, microlasers, integrated photonics, erasable optical memory, logical gates, light-harvesting films, etc.

Surface grafting of paper with photochromic spiropyran ether methacrylate :: BioResources

Core 80 is formed by depositing a positive photochromic polymeric material onto a side-polished fiber and exposing a predetermined region of photochromic polymeric material in layer 60 to actinic radiation as described above. Monolayers composed of poly MMA containing spiropyran units in the side chains have also been investigated showing a pH dependant increase in surface pressure on UV irradiation and a recovery in the dark. The fluorescence change was attributed to the extended conjugation and the emergence of an intramolecular charge transfer effect when the spiro-ring of the oxazolidine moiety was opened.

Applied Polymer Systems Floc Log® Polyacrylamide Floc Log

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Moreover, previous reports on combining another DAE derivative with a small molecule, such as pentacene, showed that the HOMO level of the ring-open isomer did not act as a trap level, which is in agreement with our results for P3HT with DAEs.

Applied Photochromic Polymer Systems

Polymers with thermo-responsive fluorescence have attracted great attention due to their technological significance and potential applications as fluorescent thermometers, carriers in drug release, intracellular temperature imaging, soft actuators, etc. Photochromic films prepared by solid state processing of disentangled ultrahigh molecular weight polyethylene and photochromic dyes composites. All the fluorescence intensities are normalized to 45 °C.

Photo

Furthermore, the polysiloxanes described by Krongauz are only of an inorganic linear or cyclic oligomeric nature. Replacing traditional procedures for forming polymeric waveguides which require multi-step processes involving photolithography followed by plasma etching, wet chemical etching, or thermal heating with a simpler process is also highly desirable. The polymeric material of the exposed regions or light transmitting core having the electro-optical sidegroup is represented by structural units VI' and VIA' STR18 B 4 is the electro-optical pendent sidegroup of formula V' or III' , and A 1 and A 2 are as previously defined.

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