

프탈로시아닌 유도체 합성 및 광학응답특성 연구

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Abstract

Recently, Phthalocyanine dye has attentions due to their excellent photochemical properties and used to optical applications such as chemical sensors. And azo groups can change photochemical properties in the UV irradiation because their molecular structure reverse cis-trans isomer and changes cooperative motion, aggregation and so on. In this study, we synthesized the azo compound between amino pyridine and phenol. this azo derivative used the combination with 3-nitro phthalonitrile and makes phthalocyanine structure through the synthesis with 1,8-diazabicyclo[5.4.0]undec-7-ene(DBU), zinc acetate. Finally, we synthesized a new photoswitching dye zinc-phthalocyanine azo compound. This compound was studied by photoswitching phenomenon by UV irradiation and analyzed molecular aggregation through the SEM images.

참고문헌

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