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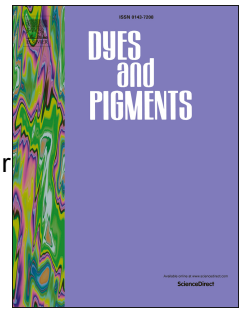

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A New Class of Oxazolidinone- and Phthalimide-Based Oxidation Dye Couplers and Their Effect on Azomethine Dye Color

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ABSTRACT

In the study of the effects of auxochromes on azomethine dye color, an oxazolidinone ring in the acceptor portion of the dye was useful both as a masking group for preparation of the electron-donating hydroxyethyl group, and as an electron-withdrawing auxochrome. In the case of *m*-aminophenol derivatives coupled with *p*-phenylenediamine, there was a 15 nm bathochromic shift relative to the parent azomethine of the series (PPD-MAP)[3], and a 30 nm bathochromic shift relative to the azomethine formed from PPD and AHT, which contains an electron-donating

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[3]Non-standard abbreviations: PPD = **1** = *p*-phenylenediamine = benzene-1,4-diamine; MPD = *m*-phenylenediamine = benzene-1,3-diamine; MAP = *m*-aminophenol; AHT = **3** = 4-amino-2-hydroxytoluene = 5-amino-2-methylphenol.