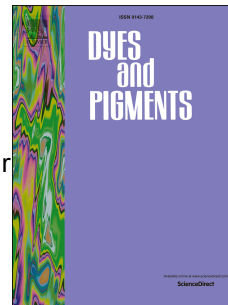


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A new class of oxazolidinone- and phthalimide-based oxidation dye couplers and their effect on azomethine dye color

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

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9
10 ABSTRACT

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

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³Non-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.

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