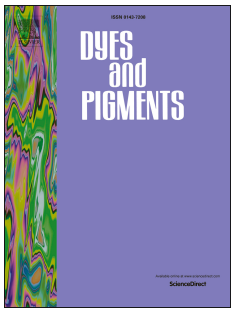
Accepted Manuscript



Highly efficient halochromic behaviors in solution and film states with 9,19-dichloro-5,15-dihydrocarbazolo[3′,4':5,6][1,4]oxazino[2,3-*b*]indolo[3,2-h]phenoxazine derivative

Young Un Kim, Gi Eun Park, Suna Choi, Chang Geun Park, Min Ju Cho, Dong Hoon Choi

PII: S0143-7208(18)30614-4

DOI: 10.1016/j.dyepig.2018.08.030

Reference: DYPI 6944

To appear in: *Dyes and Pigments*

Received Date: 20 March 2018

Revised Date: 28 June 2018

Accepted Date: 19 August 2018

Please cite this article as: Kim YU, Park GE, Choi S, Park CG, Cho MJ, Choi DH, Highly efficient halochromic behaviors in solution and film states with 9,19-dichloro-5,15-dihydrocarbazolo[3′,4':5,6][1,4]oxazino[2,3-*b*]indolo[3,2-h]phenoxazine derivative, *Dyes and Pigments* (2018), doi: 10.1016/j.dyepig.2018.08.030.

Graphical abstract