

Supplementary Information

Anti-counterfeiting Fiber System with Near-Infrared Wavelength Selectivity Based on Photothermal and Thermochromic Dyes

Su Jeong Choi¹‡, Eun Jeong Seo¹, Hyoung Eun Bae¹, Hyo Cheol Jung¹, Sang Ho Lee¹,
Jin Chul Kim¹, Jung Yu Jin¹, Jong S. Park², Ji-Eun Jeong^{1*}, and Young Il Park^{1*}

*¹Research Center for Green Fine Chemicals, Korea Research Institute of Chemical
Technology, Ulsan 44412, Republic of Korea*

*²Department of Organic Material Science and Engineering, Pusan National University,
Busan, 46241, Republic of Korea*

‡ These authors contributed equally to this work

* Corresponding authors:

Dr. Ji-Eun Jeong (jieunj@kriict.re.kr) and Dr. Young Il Park (ypark@kriict.re.kr)

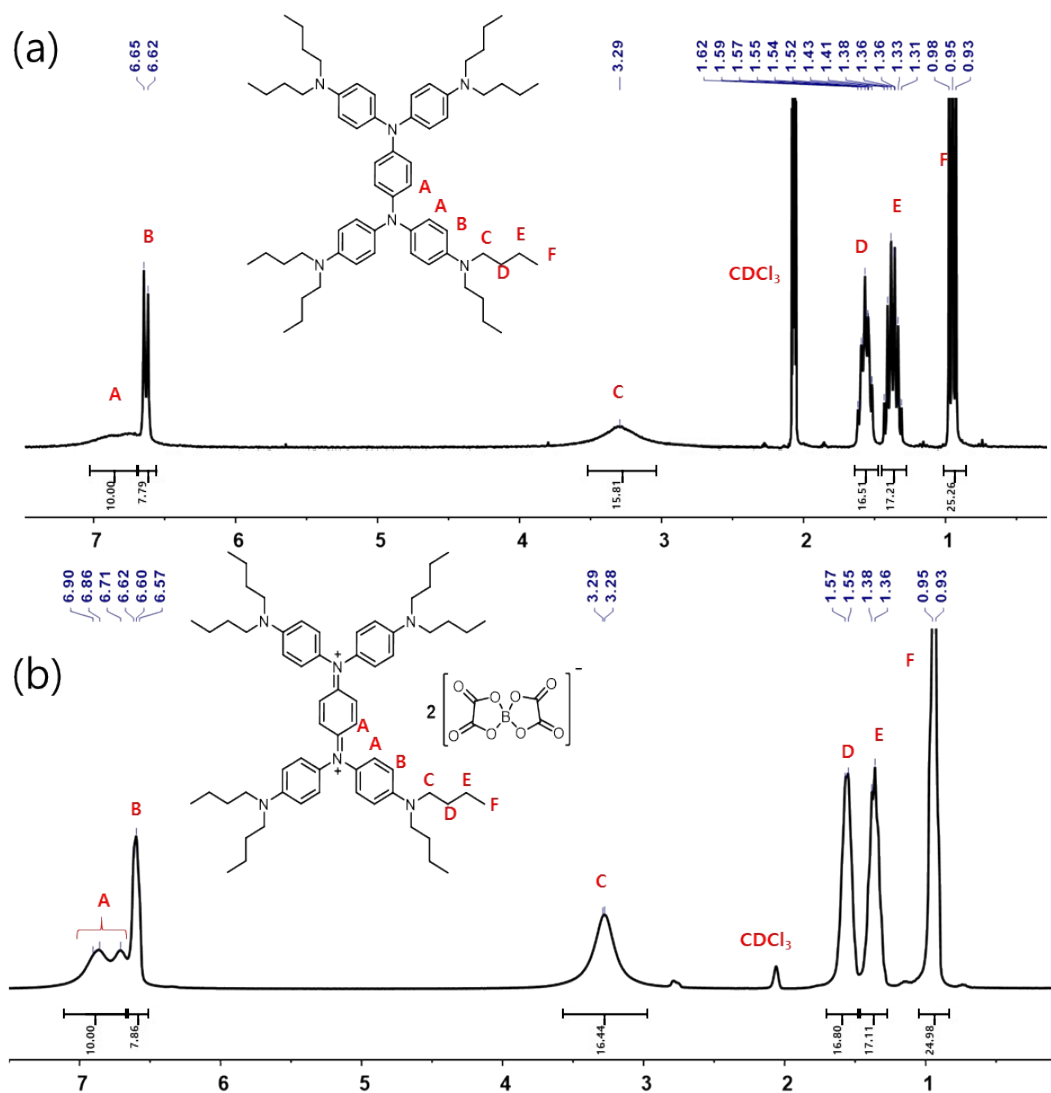


Figure S1. (a) Synthetic scheme of Diimmonium salt and H-NMR data of (b) Compound 1 and (c) Compound 2.

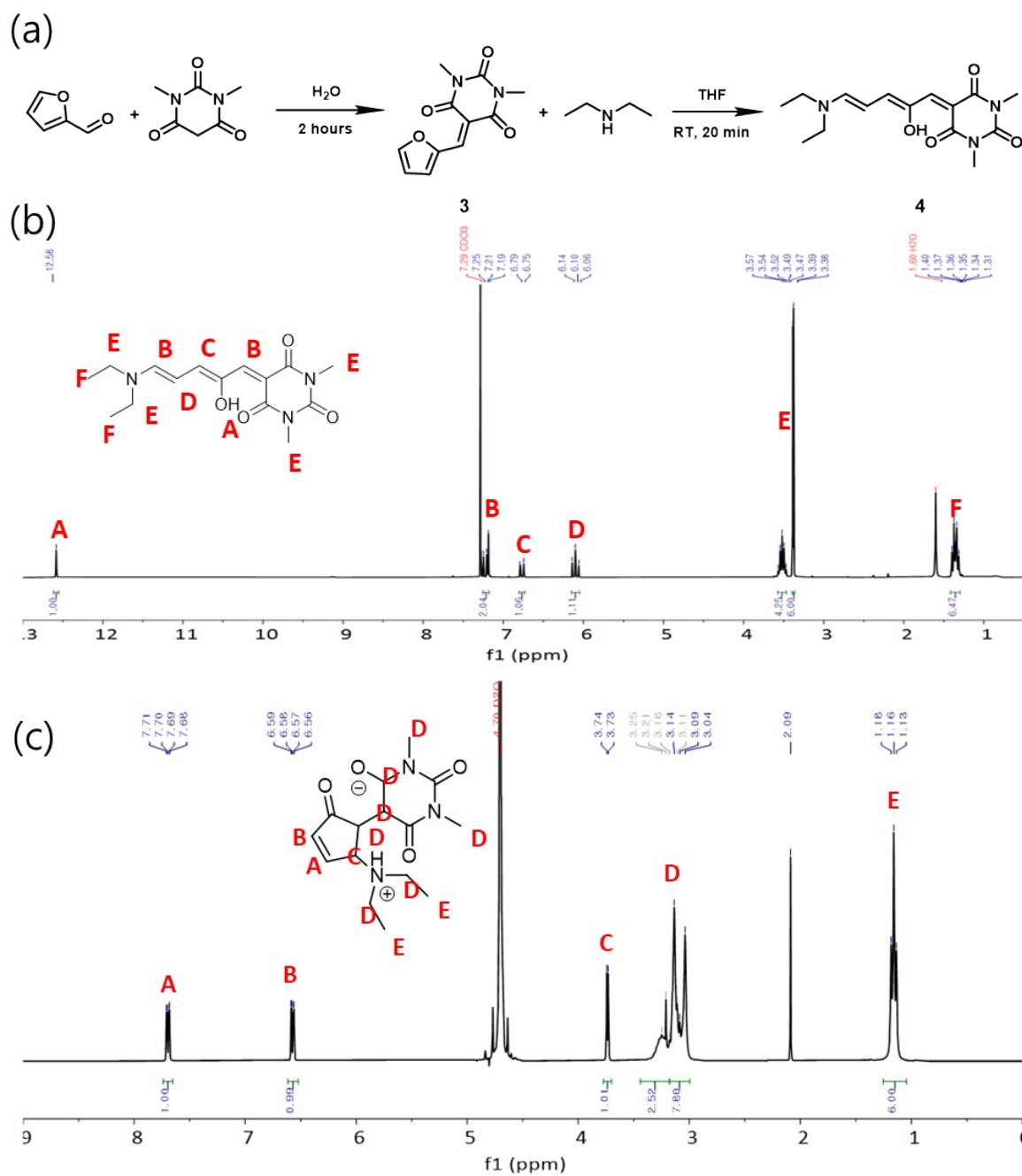


Figure S2. Synthetic scheme of donor-acceptor Stenhouse adduct (DASA)

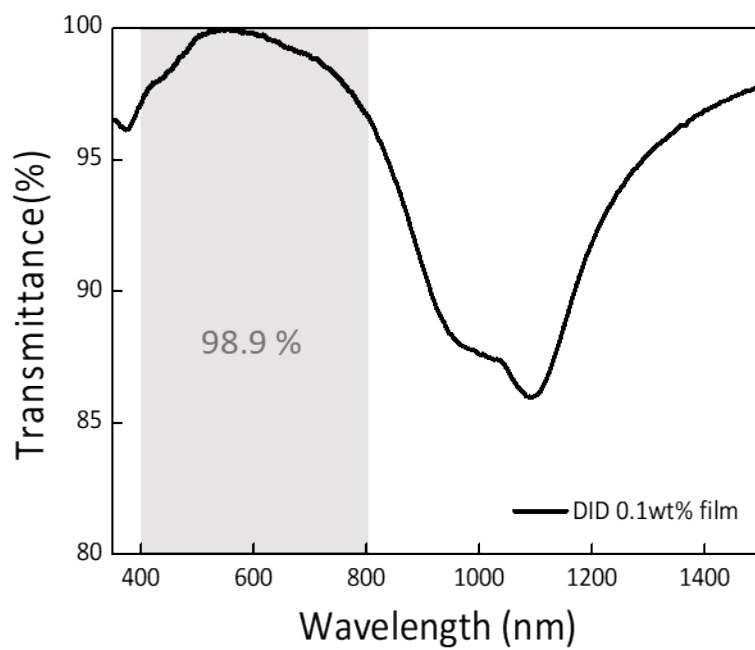


Figure S3. Transmittance spectrum of DID film (0.1 wt DID in PMMA).