Electronic Supporting Information

Nonsymmetric 9,10-diphenylanthracene-based deep-blue emitters with enhanced charge transport properties

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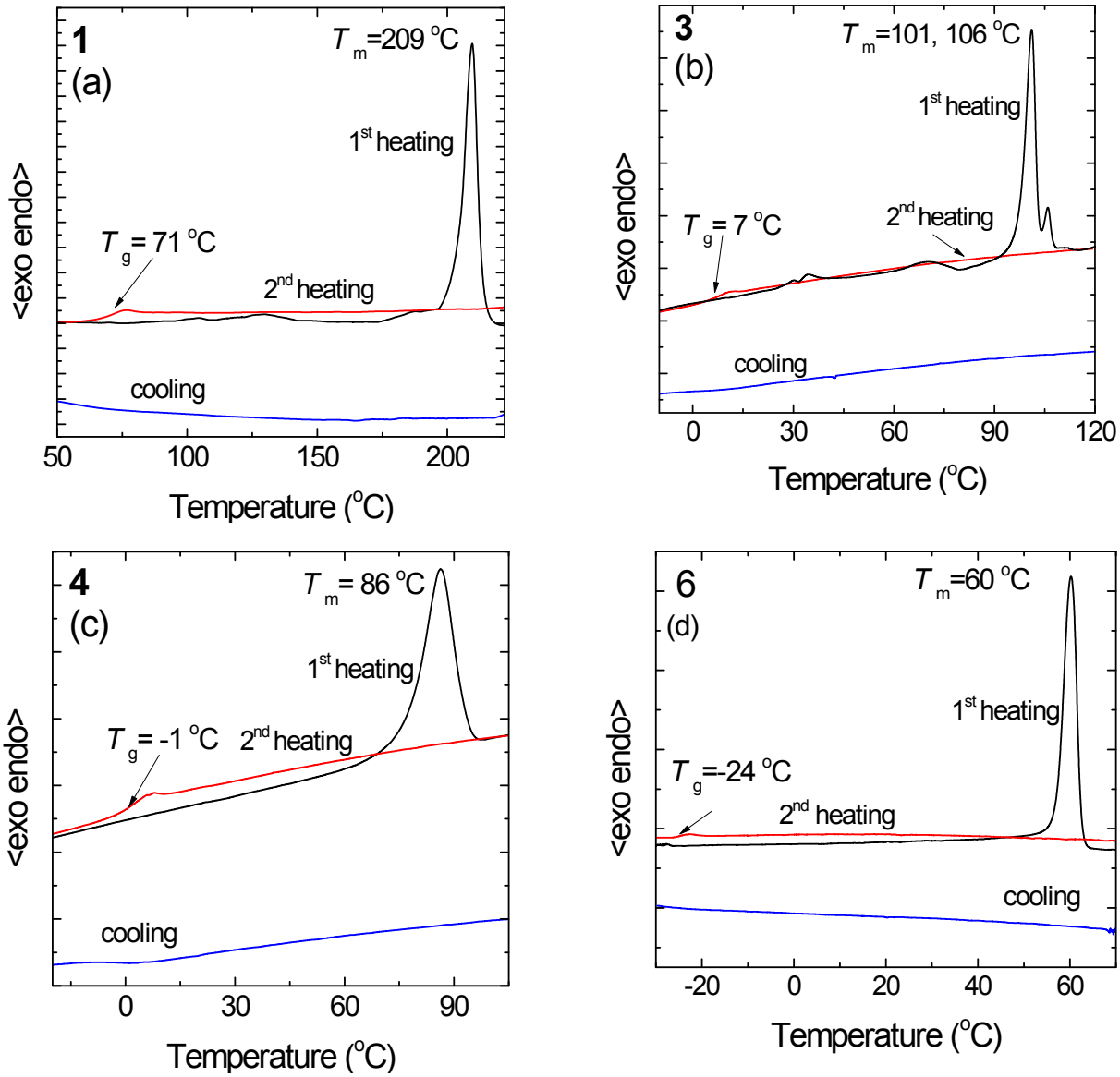

Figure S1. DSC curves of the DPA compounds **1** (a), **3** (b), **4** (c) and **6** (d).

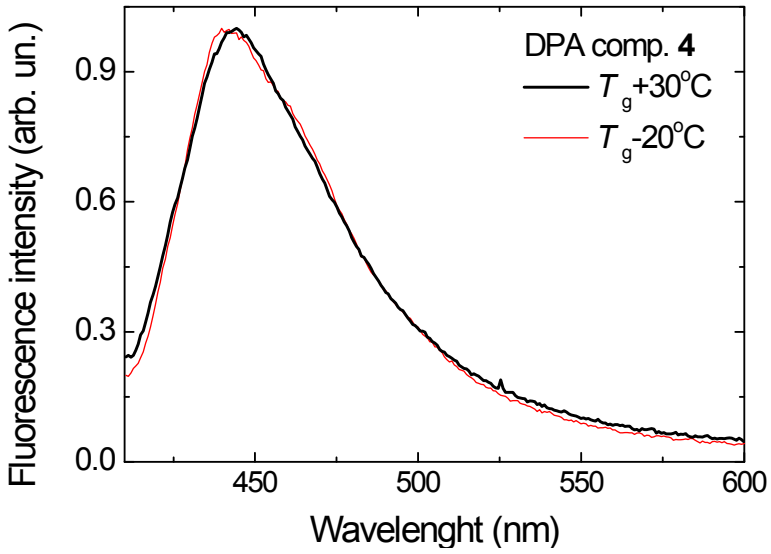

Figure S2. Fluorescence spectra of the characteristic DPA compound **4** at T_g+30 °C (black line) and T_g-20 °C temperatures.

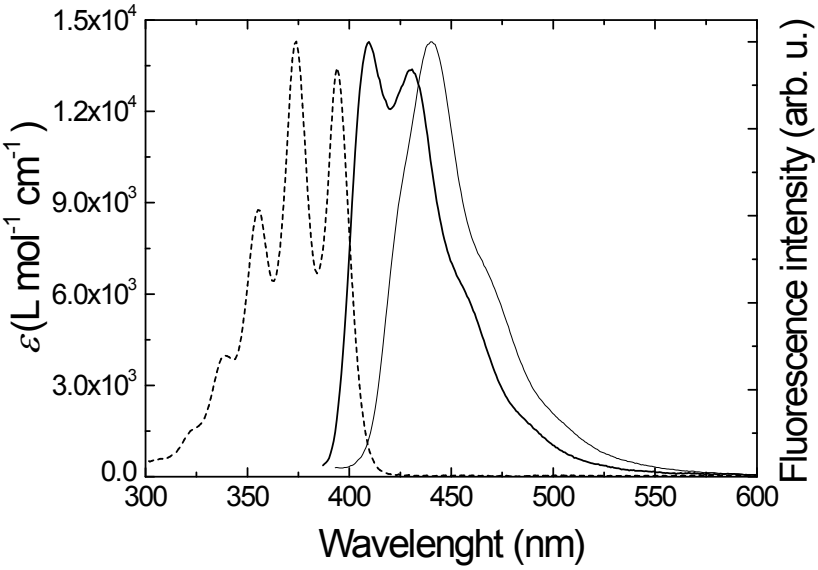

Figure S3. Absorption (dashed line) and fluorescence spectra (solid line) of the unsubstituted DPA in THF solution (thick line) and in the neat film (thin line).

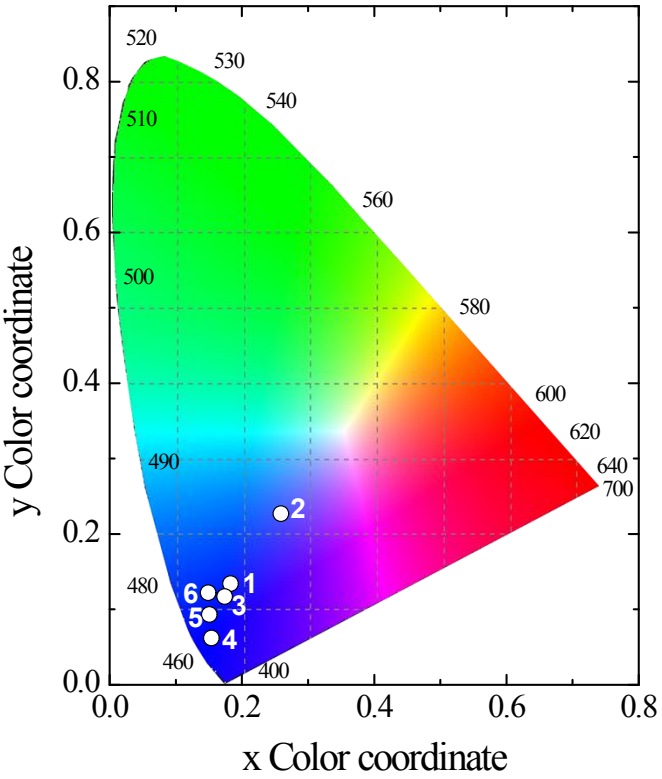

Figure S4. CIE chromaticity diagram with color coordinates of the DPA derivatives **1-6**.

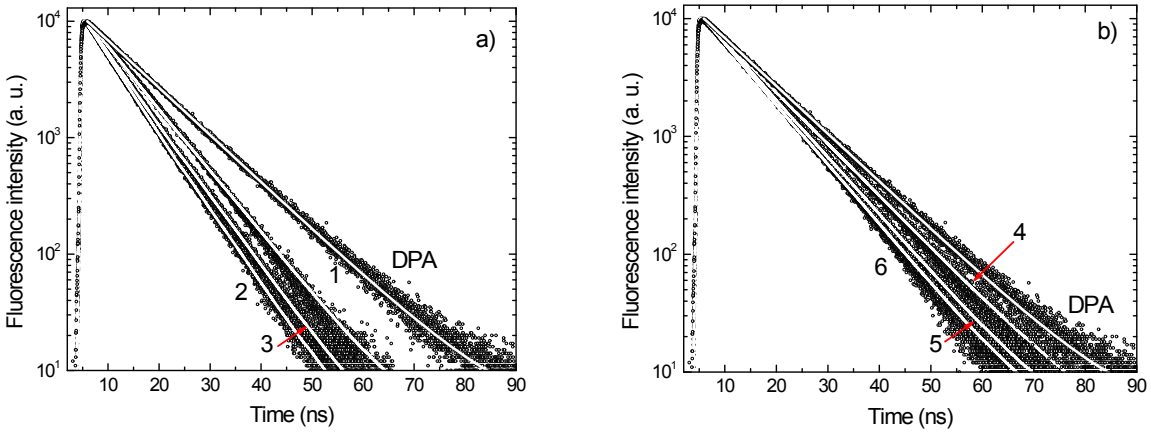

Figure S5. Fluorescence decay transients of the DPA derivatives **1-3** (a) and **4-6** (b) dispersed in PS matrix at 0.1 wt %.

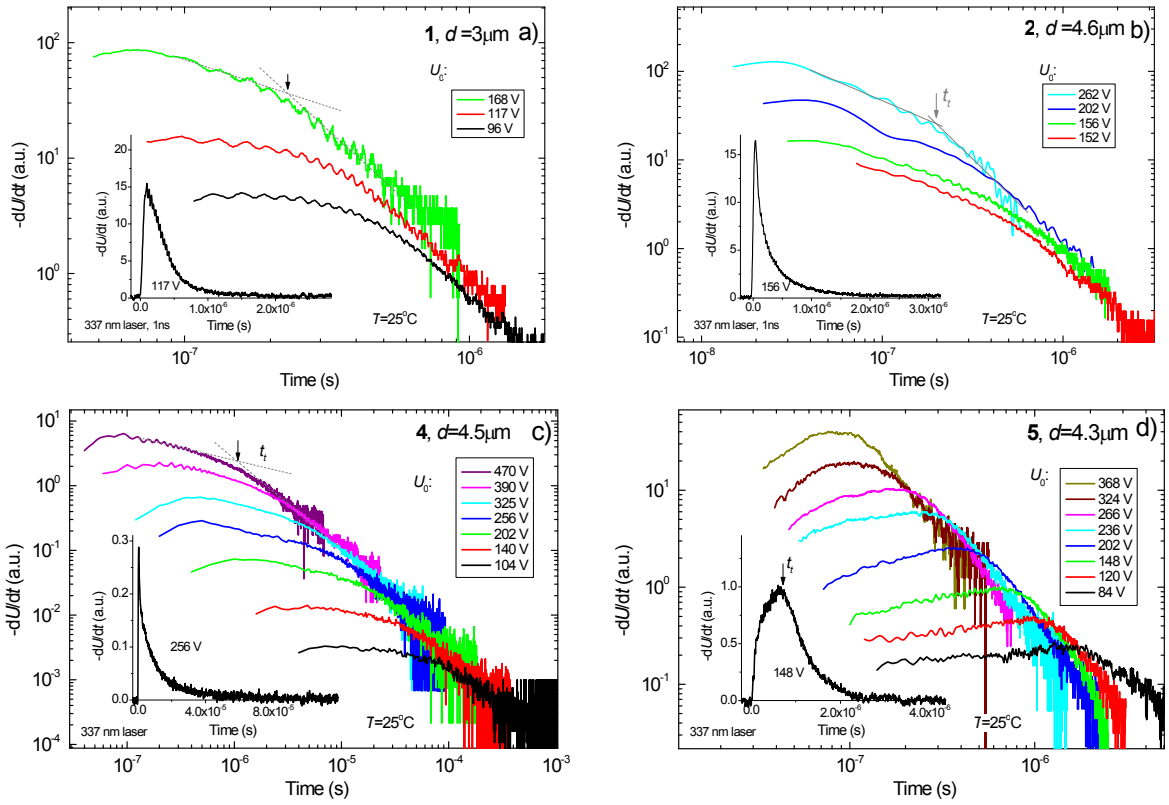

Figure S6. XTOF transients of the DPA derivatives **1** (a)**, 2** (b), **4** (c) and **5** (d) at different voltage.

Complete reference 37:

[37] Gaussian 09, Revision D.01, M. J. Frisch, G. W. Trucks, H. B. Schlegel, G. E. Scuseria, M. A. Robb, J. R. Cheeseman, G. Scalmani, V. Barone, B. Mennucci, G. A. Petersson, H. Nakatsuji, M. Caricato, X. Li, H. P. Hratchian, A. F. Izmaylov, J. Bloino, G. Zheng, J. L. Sonnenberg, M. Hada, M. Ehara, K. Toyota, R. Fukuda, J. Hasegawa, M. Ishida, T. Nakajima, Y. Honda, O. Kitao, H. Nakai, T. Vreven, J. A. Montgomery, Jr., J. E. Peralta, F. Ogliaro, M. Bearpark, J. J. Heyd, E. Brothers, K. N. Kudin, V. N. Staroverov, T. Keith, R. Kobayashi, J. Normand, K. Raghavachari, A. Rendell, J. C. Burant, S. S. Iyengar, J. Tomasi, M. Cossi, N. Rega, J. M. Millam, M. Klene, J. E. Knox, J. B. Cross, V. Bakken, C. Adamo, J. Jaramillo, R. Gomperts, R. E. Stratmann, O. Yazyev, A. J. Austin, R. Cammi, C. Pomelli, J. W. Ochterski, R. L. Martin, K. Morokuma, V. G. Zakrzewski, G. A. Voth, P. Salvador, J. J. Dannenberg, S. Dapprich, A. D. Daniels, O. Farkas, J. B. Foresman, J. V. Ortiz, J. Cioslowski, and D. J. Fox, Gaussian, Inc., Wallingford CT, 2013.