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## Physics of organic-organic interfaces

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# Publications

1. *Determination of vertical phase separation in a polyfluorene copolymer: fullerene derivative solar cell blend by X-ray photoelectron spectroscopy.*

M. Passos-Felicissimo, **D. Jarzab**, M. Gorgoi, M. Forster, U. Scherf, M. C. Scharber, S. Svensson, P. Rudolf, and M. A. Loi, *J. Mater. Chem.* **2009**, *19*, 4899-4901.

2. *High electron mobility and ambient stability in solution-processed perylene-based organic field-effect transistors.*

C. Piliago, **D. Jarzab**, G. Gigli, Z. Chen, A. Facchetti, and M. A. Loi, *Adv. Mater.* **2009**, *21*, 1573-1576.

3. *Near-IR photodetectors based on electron transfer from PbS nanocrystals to fullerene derivatives.*

K. Szendrei, F. Cordella, M. V. Kovalenko, M. Böberl, G. Hesser, M. Yarema, **D. Jarzab**, O. V. Mikhnenko, A. Gocalinska, M. Saba, F. Quochi, A. Mura, G. Bongiovanni, P. W. M. Blom, W. Heiss, and M. A. Loi *Adv. Mater.* **2009**, *21*, 683-687.

4. *Functionalized perylenes: origin of the enhanced electrical performances.*

C. Piliago, F. Cordella, **D. Jarzab**, S. Lu, Z. Chen, A. Facchetti, and M. A. Loi, *Appl. Phys. A*, **2009**, *95*, 303-308.

5. *Charge transfer dynamics in polymer-fullerene blends for efficient solar cells.*

**D. Jarzab**, F. Cordella, M. Lenes, F. B. Kooistra, P. W. M. Blom, J. C. Hummelen, and M. A. Loi, *J. Phys. Chem. B*, **2009**, *113*, 16513-16517.

6. *Ambipolar all-polymer bulk heterojunction field-effect transistors.*

K. Szendrei, **D. Jarzab**, Z. Chen, A. Facchetti, M. A. Loi, *J. Mater. Chem.* **2010**, *20*, 1317-1321.

7. *Surface modification of semiconductor nanocrystals by a methanofullerene carboxylic acid.*

K. Szendrei, **D. Jarzab**, M. Yarema, M. Sytnyk, S. Pichler, J. C. Hummelen, W. Heiss, M. A. Loi, *J. Mater. Chem.* **2010**, *20*, 8470.

8. *Photoluminescence of conjugated polymer blends at the nano-scale.*

**D. Jarzab**, M. Lu, T. Nicolai, P. W. M. Blom, M. A. Loi, *Soft Matter*, (in press).

9. *Charge separation dynamics in inorganic-organic ternary blend for efficient infrared photodiodes.*

**D. Jarzab**, K. Szendrei, M. Yarema, S. ten Cate, J. Schins, L. D. A. Siebbeles, W. Heiss, M. A. Loi, (*Submitted*).

10. *Charge transfer excitons in low band gap polymer based solar cell active layer and the role of processing additives.*

M. Scharber, M. Koppe, P. Denk, H. Azimi, M. Morana, H. J Egelhaaf, J. Gao, **D. Jarzab** and M. A. Loi, (*Submitted*).

11. *Charge transfer excitons in narrow-band-gap polymer-based bulk heterojunctions.*

**D. Jarzab**, F. Cordella, J. Gao, M. Scharber, H-J. Egelhaaf, M. A. Loi, (manuscript in preparation).