

*Citation for published version:*

Feron, K, Cave, JM, Thameel, MN, O'Sullivan, C, Kroon, R, Andersson, MR, Zhou, X, Fell, CJ, Belcher, WJ, Walker, AB & Dastoor, PC 2016, 'Utilizing energy transfer in binary and ternary bulk heterojunction organic solar cells', *ACS Applied Materials and Interfaces*, vol. 8, no. 32, pp. 20928-20937.  
<https://doi.org/10.1021/acsami.6b05474>

*DOI:*

[10.1021/acsami.6b05474](https://doi.org/10.1021/acsami.6b05474)

*Publication date:*

2016

*Document Version*

Peer reviewed version

[Link to publication](#)

## University of Bath

### Alternative formats

If you require this document in an alternative format, please contact:  
[openaccess@bath.ac.uk](mailto:openaccess@bath.ac.uk)

#### General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

#### Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

## Supporting Information

### Utilising energy transfer in binary and ternary bulk heterojunction organic solar cells

Krishna Feron<sup>a,b,\*</sup>, James M. Cave<sup>c</sup>, Mahir N. Thameel<sup>b,d</sup>, Connor O'Sullivan<sup>b</sup>, Renee Kroon<sup>e,f</sup>, Mats R. Andersson<sup>e,f</sup>, Xiaojing Zhou<sup>b</sup>, Christopher J. Fell<sup>a</sup>, Warwick J. Belcher<sup>b</sup>, Alison B. Walker<sup>c</sup>, Paul C. Dastoor<sup>b</sup>

<sup>a</sup> CSIRO Energy, Newcastle, NSW 2300, Australia

<sup>b</sup> Centre for Organic Electronics, University of Newcastle, University Drive, Callaghan, NSW, 2308, Australia

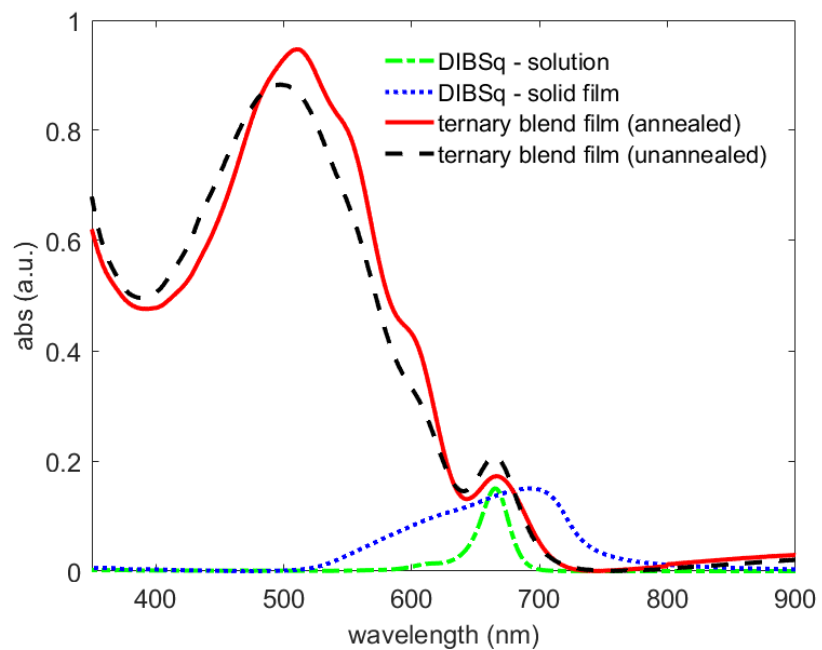
<sup>c</sup> Department of Physics, University of Bath, Bath BA2 7AY, United Kingdom

<sup>d</sup> Department of Physics, College of education for pure science, University of Anbar, Iraq

<sup>e</sup> Future Industries Institute, University of South Australia, Mawson Lakes Campus, SA 5095, Australia

<sup>f</sup> Department of Chemistry and Chemical Engineering/Polymer Technology, Chalmers University of Technology, 41296 Göteborg, Sweden

\*Corresponding author, e-mail: [Krishna.Feron@csiro.au](mailto:Krishna.Feron@csiro.au)



**Figure S1.** Absorbance for DIBSq in solution (chlorobenzene) and solid-state (vacuum deposited) and a P3HT:PCBM:DIBSq ternary blend film (spincast) with a 1:0.8:0.05 weight ratio before and after annealing.