Publication list

Impact of Marginal Exciton–Charge-Transfer-State Offset on Charge Generation and Recombination in Polymer:Fullerene Solar Cells – M.S. Vezie, M. Azzouzi, A.M. Telford, T.R. Hopper, A.B. Sieval, J.C. Hummelen, K. Fallon, H. Bronstein, T. Kirchartz, A.A. Bakulin, T.M. Clarke and J. Nelson – *ACS Energy Letters* **2019**, *4*, 2096–2103. DOI: 10.1021/acsenergylett.9b01368

Characterization of Interfacial Structure in Polymer-Fullerene Bulk Heterojunctions via ^{13}C {^{2}H} Rotational Echo Double Resonance NMR – R.C. Nieuwendaal, D.M. DeLongchamp, L.J. Richter, C.R. Snyder, R.L. Jones, S. Engmann, A. Herzing, M. Heeney, Z. Fei, A.B. Sieval, and J.C. Hummelen – *Physical Review Letters* **2018**, *121*, 026101. DOI: 10.1103/PhysRevLett.121.026101

Structure/property/processing relationships for organic solar cells (book chapter) – M. Dyson, R. Kroon, A.B. Sieval, M. Campoy-Quiles, C. Müller and N. Stingelin – *Chapter 6 in Nanostructured Materials for Type III Photovoltaics (eds. M. Azad Malik and P. Skabara)*, **2017**. DOI: 10.1039/9781782626749-00182

Origin of fullerene-induced vitrification of fullerene:donor polymer photovoltaic blends and its impact on solar cell performance – P. Westacott, N.D. Treat, J. Martin, J.H. Bannock, J.C. de Mello, M. Chabinyc, A.B. Sieval, J.J. Michels and N. Stingelin – *Journal of Materials Chemistry A* **2017**, *5*, 2689–2700. DOI: 10.1039/C6TA08950J

Purification and electronic characterisation of 18 isomers of the OPV-acceptor material bis[60]PCBM – W. Shi, X. Hou, T. Liu, Z. Zhao, A.B. Sieval, J.C. Hummelen and T.J.S. Dennis – *Chemical Communications* **2017**, *53*, 975–978. DOI: 10.1039/C6CC07820F

Diels–Alder adducts of C60 and esters of 3-(1-indenyl)-propionic acid: alternatives for [60]PCBM in polymer:fullerene solar cells – A.B. Sieval, N.D. Treat, D. Rozema, J.C. Hummelen and N. Stingelin – *Chemical Communications* **2015**, *51*, 8126–8129. DOI: 10.1039/C5CC01642H

[70]PCBM and incompletely separated grades of methanofullerenes produce bulk heterojunctions with increased robustness for ultra-flexible and stretchable electronics – S. Savagatrup, D. Rodriquez, A.D. Printz, A.B. Sieval, J.C. Hummelen and D.J. Lipomi – *Chemistry of Materials* **2015**, *27*, 3902–3911. DOI: 10.1021/acs.chemmater.5b00638

Fullerene-based acceptor materials (book chapter) – A.B. Sieval and J.C. Hummelen – *Chapter 7 in Organic Photovoltaics: Materials, device physics, and manufacturing technologies (eds. C. Brabec, U. Scherf and V. Dyakonov)*, **2014**. DOI: 10.1002/9783527656912.ch07

Mixed C60/C70 based fullerene acceptors in polymer bulk-heterojunction solar cells – L.M. Andersson, Y.–T. Hsu, K. Vandewal, A.B. Sieval, M.R. Andersson and O. Inganäs – *Organic Electronics* **2012**, *13*, 2856–2864. DOI:10.1016/j.orgel.2012.08.028

Electron trapping in higher adduct fullerene-based solar cells – M. Lenes, S.W. Shelton, A.B. Sieval, D.F. Kronholm, J.C. Hummelen and P.W.M Blom – *Advanced Functional Materials* **2009**, *19*, 3002–3007. DOI: 10.1002/adfm.200900459

Photovoltaic performance of an ultrasmall band gap polymer – A.P. Zoombelt, M. Fonrodona, M.M. Wienk, A.B. Sieval, J.C. Hummelen and R.A.J. Janssen – *Organic Letters* **2009**, *11*, 903–906. DOI: 10.1021/ol802839z

Patents

Blends of fullerene derivatives, and uses thereof in electronic devices – D.F. Kronholm, J.C. Hummelen, A.B. Sieval and P. van ‘t Hof – Patent numbers: US 8076050; US 8435713; US 8945807; EP 2043952 B1; and JP 5568300.