

Publication list

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](https://doi.org/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. Chabinyk, A.B. Sieval, J.J. Michels and N. Stingelin – Journal of Materials Chemistry A 2017, 5, 2689–2700. DOI: [10.1039/C6TA08950J](https://doi.org/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](https://doi.org/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](https://doi.org/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. Rodriguez, 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](https://doi.org/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](https://doi.org/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](https://doi.org/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, [DOI: 10.1002/adfm.200900459](https://doi.org/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](https://doi.org/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

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