Prof. Dr. Wouter Maes

Institute for Materials Research (IMO-IMOMEC)
Design & Synthesis of Organic Semiconductors (DSOS)
UHasselt - Hasselt University
Agoralaan 1 - Building D (D-153)
B-3590 Diepenbeek, Belgium
wouter.maes@uhasselt.be
Tel.: +32 (0)11-268312
Fax: +32 (0)11-268299
https://www.uhasselt.be/dsos

ORCID 0000-0001-7883-3393

ResearcherID A-7575-2009

Personal Information

Surname	Maes
First name	Wouter
Date of birth	September 28, 1978
Nationality	Belgian
Marital status	Married to Faye Maertens (PhD in Chemistry), father of Mathieu (2010) and Fleur (2012)

Scientific Career and Education

Jan 2018 –	Professor ("*Hoogleraar*") UHasselt (100%), Group Leader Design & Synthesis of Organic Semiconductors (DSOS) - https://www.uhasselt.be/dsos
Jan 2014 – Dec 2017	Associate Professor ("*Hoofddocent*") UHasselt (100%), Group Leader Design & Synthesis of Organic Semiconductors (DSOS)
Oct 2012 – Dec 2013	Assistant Professor ("*Docent*") UHasselt (100%), Group Leader Design & Synthesis of Organic Semiconductors (DSOS)
Nov 2009 – Sep 2012	Assistant Professor ("*Docent*") UHasselt (20%), Group Leader Design & Synthesis of Organic Semiconductors (DSOS)
Oct 2009 – Sep 2012	Postdoctoral Fellow Research Foundation Flanders (*FWO Vlaanderen*), Supervisor: Prof. Dr. W. Dehaen (Molecular Design & Synthesis, KU Leuven, Belgium), Research topic: "Pyrimidine-based synthetic macro- and supramolecular chemistry"
Oct 2006 – Sep 2009	Postdoctoral Fellow Research Foundation – Flanders (*FWO Vlaanderen*), Supervisor: Prof. Dr. W. Dehaen (Molecular Design & Synthesis, KU Leuven, Belgium), Research topic: "Synthesis and application of *meso*-pyrimidinyl-substituted macrocyclic oligopyrroles" Postdoctoral research stay Oxford University, May – June 2009, Prof. Dr. H. Anderson Postdoctoral research stay Université Pierre et Marie Curie – Paris-VI, May – July 2007, Prof. Dr. E. Rose
Oct 2005 – Sep 2006	Postdoctoral Fellow KU Leuven, Supervisor: Prof. Dr. W. Dehaen (Molecular Design & Synthesis, KU Leuven, Belgium)
May 2005	PhD in Chemistry (20-05-2005), Supervisor: Prof. Dr. W. Dehaen (Molecular Design & Synthesis, KU Leuven, Belgium), Doctoral Fellow Research Foundation – Flanders (*FWO Vlaanderen*), PhD Dissertation: "Synthesis and

application of dendrimers incorporating porphyrins and other heterocyclic building blocks"

Research stay Université de Nice (Sophia-Antipolis), June 2003, Prof. Dr. M. Gingras

July 2000 Master of Science in Chemistry ("*Licentiaat*") (Major: Organic Chemistry), KU Leuven, Belgium, Master Thesis: "The use of 1,3,5-triazines in dendrimer chemistry", Supervisor: Prof. Dr. W. Dehaen (Molecular Design & Synthesis, KU Leuven, Belgium), Honors: graduated "with Highest Distinction"

July 1998 Bachelor of Science in Chemistry ("*Kandidaat*"), LUC Diepenbeek, Belgium, Honors: graduated "with High Distinction"

Scientific Awards

2013 2013 recipient (Belgium) Young Investigator for the Organic Division of EuCheMs

Research Interests

organic semiconductors, organic electronics, conjugated polymers, synthetic organic chemistry, porphyrinoid macrocycles, …

Guided PhD's (promoter)

12 finished PhD's: Sarah Van Mierloo (2012), Lidia Marin (2012), Toon Ghoos (2013), Süleyman Kudret (2013), Jurgen Kesters (2015), Pieter Verstappen (2015), Julija Kudrjasova (2015), Mirco Tomassetti (2015), Sanne Govaerts (2017), Geert Pirotte (2017), Yasmine Braeken (2017), Jeroen Brebels (2017)

13 running PhD's: Gaël Heintges (2018), Mathias Kelchtermans (2018), Ruben Lenaerts (2019), Dries Devisscher (2019), Jorne Raymakers (2019), Frederik Verstraeten (2020), Sam Gielen (2020), Tom Cardeynaels (2020), Jasper Deckers (2021), Tom Vandermeeren (2021), Omar Beckers (2021), Simon Paredis (2022), Jochen Vanderspikken (2022) (+ 3 as co-promoter)

List of Publications (*h*-index 30 in Web of Science/33 in Google Scholar)

- Peer reviewed journal contributions

149. "Functionalization of Boron-Doped Diamond with a Push-Pull Chromophore via Sonogashira and CuAAC Chemistry": Raymakers, J.; Krysova, H.; Artemenko, A.; Čermák, J.; Nicley, S. S.; Verstappen, P.; Gielen, S.; Kromka, A.; Haenen, K.; Kavan, L.; Maes, W.; Rezek, B., *RSC Adv.* **2018**, DOI:10.1039/c8ra07545j (IF_{2017} 2.936) – *Open Access*

148. "The impact of acceptor-acceptor homocoupling on the optoelectronic properties and photovoltaic performance of $PDTSQx_{ff}$ low bandgap polymers": Pirotte, G.; Kesters, J.; Cardeynaels, T.; Verstappen, P.; D'Haen, J.; Lutsen, L.; Champagne, B.; Vanderzande, D.; Maes, W., *Macromol. Rapid Commun.* **2018**, *39*, 1800086 (IF_{2017} 4.441) – DOI:10.1002/marc.201800086

147. "Organic and perovskite solar cells for space applications": Cardinaletti, I.; Vangerven, T.; Nagels, S.; Cornelissen, R.; Schreurs, D.; Hruby, J.; Vodnik, J.; Devisscher, D.; Kesters, J.; D'Haen, J.; Franquet, A.; Spampinato, V.; Conard, T.; Maes, W.; Deferme, W.; Manca, J. V., *Sol. Energy Mater. Sol. Cells* **2018**, *182*, 121–127 (IF_{2017} 5.018) – DOI:10.1016/j.solmat.2018.03.24

146. "A universal route to fabricate *n-i-p* multi-junction polymer solar cells via solution processing": Di Carlo Rasi, D.; Hendriks, K. H.; Simone, G.; Gelinck, G. H.; Gevaerts, V. S.; Andriessen, R.; Pirotte, G.; Maes, W.; Li, W.; Wienk, M. M.; Janssen, R. A. J., *Solar RRL* **2018**, *2*, 1800018 (IF tbd) – DOI:10.1002/solr.201800018

145. "Disentangling overlapping high-field EPR spectra of organic radicals: identification of light-induced polarons in the record fullerene-free solar cell blend PBDB-T:ITIC": Van Landeghem, M.; Maes, W.; Goovaerts, E.; Van Doorslaer, S., *J. Magn. Reson.* **2018**, *288*, 1–10 (IF_{2017} 2.586) – DOI:10.1016/j.jmr.2018.01.007

144. "A PCPDTTPD-based narrow bandgap conjugated polyelectrolyte for organic solar cells": Brebels, J.; Kesters, J.; Defour, M.; Pirotte, G.; Van Mele, B.; Manca, J.; Lutsen, L.; Vanderzande, D.; Maes, W., *Polymer* **2018**, *137*, 303–311 (IF_{2017} 3.483) – DOI:10.1016/j.polymer.2018.01.027

143. "On the 'true' structure of push-pull type low bandgap polymers for organic electronics": Pirotte, G.; Verstappen, P.; Vanderzande, D.; Maes, W., *Adv. Electron. Mater.* **2018**, 1700481 (IF_{2017} 5.466) – DOI:10.1002/aelm.201700481

142. "An Effective Strategy to Enhance the Dielectric Constant of Organic Semiconductors – CPDTTPD-Based Low Bandgap Polymers Bearing Oligo(Ethylene Glycol) Side Chains": Brebels, J.; Douvogianni, J.; Devisscher, D.; Eachambadi, R. T.; Manca, J.; Lutsen, L.; Vanderzande, D.; Hummelen, J. C.; Maes, W., *J. Mater. Chem. C* **2018**, *6*, 500–511 (IF_{2017} 5.976) – DOI:10.1039/C7TC05264B

141. "An efficient and simple tool for assessing singlet oxygen involvement in the photo-oxidation of conjugated materials": Perthué, A.; Fraga Domínguez, I.; Verstappen, P.; Maes, W.; Dautel, O. J.; Wantz, G.; Rivaton, A., *Sol. Energy Mater. Sol. Cells* **2018**, *176*, 336–339 (IF_{2017} 5.018) – DOI:10.1016/j.solmat.2017.10.019

140. "Conjugated polymer nanoparticles for bioimaging": Braeken, Y.; Cheruku, S.; Ethirajan, A.; Maes, W., *Materials* **2017**, *10*, 1420 (IF_{2017} 2.467) – DOI:10.3390/ma10121420 – *Open Access*

139. "High Dielectric Constant Conjugated Materials for Organic Photovoltaics": Brebels, J.; Manca, J.; Lutsen, L.; Vanderzande, D.; Maes, W., *J. Mater. Chem. A* **2017**, *5*, 24037–24050 (IF_{2017} 9.931) – DOI:10.1039/C7TA06808E

138. "Absorption and Fluorescence Features of an Amphiphilic *meso*-Pyrimidinylcorrole: Experimental Study and Quantum Chemical Calculations": Preiss, J.; Herrmann-Westendorf, F.; Ngo, T. H.; Martínez, T.; Dietzek, B.; Hill, J. P.; Ariga, K.; Kruk, M. M.; Maes, W.; Presselt, M., *J. Phys. Chem. A* **2017**, *121*, 8614–8624 (IF_{2017} 2.836) – DOI:10.1021/acs.jpca.7b08910

137. "Expanding the scope of diamond surface chemistry: Stille and Sonogashira cross-coupling reactions": Raymakers, J.; Artemenko, A.; Nicley, S. S.; Štenclová, P.; Kromka, A.; Haenen, K.; Maes, W.; Rezek, B., *J. Phys. Chem. C* **2017**, *121*, 23446–23454 (IF_{2017} 4.484) – DOI:10.1021/acs.jpcc.7b06426

136. "Conjugated ionic (co)polythiophene-based cathode interlayers for bulk heterojunction organic solar cells": Govaerts, S.; Kesters, J.; Defour, M.; Van Mele, B.; Penxten, H.; Neupane, S.; Renner, F. U.; Lutsen, L.; Vanderzande, D.; Maes, W., *Eur. Polym. J.* **2017**, *97*, 49–56 (IF_{2017} 3.741) – DOI:10.1016/j.eurpolymj.2017.09.043

135. "Molecular weight tuning of low bandgap polymers by continuous flow chemistry: increasing the applicability of PffBT4T for organic photovoltaics": Pirotte, G.; Agarkar, S.; Xu, B.; Zhang, J.; Lutsen, L.; Vanderzande, D.; Yan, H.; Pollet, P.; Reynolds, J. R.; Maes, W.; Marder, S. R., *J. Mater. Chem. A* **2017**, *5*, 18166–18175 (IF_{2017} 9.931) – DOI:10.1039/C7TA05627C

134. "Low bandgap polymers based on bay-annulated indigo for organic photovoltaics: enhanced sustainability in material design and solar cell fabrication": Brebels, J.; Klider, K. C. C. W. S.; Kelchtermans, M.; Verstappen, P.; Van Landeghem, M.; Van Doorslaer, S.; Goovaerts, E.; Garcia, J. R.; Manca, J.; Lutsen, L.; Vanderzande, D.; Maes, W. *Org. Electron.* **2017**, *50*, 264–272 (IF_{2017} 3.680) – DOI:10.1016/j.orgel.2017.07.037

133. "Spectral-Luminescent Properties of *Meso*-Tetraarylporphyrins Revisited: the Role of Aryl Type, Substitution Pattern and Macrocycle Core Protonation": Vershilovskaya, I. V.; Stefani, S.; Verstappen, P.; Ngo, T. H.; Scheblykin, I. G.; Dehaen, W.; Maes, W.; Kruk, M. M. *Macroheterocycles* **2017**, *10*, 257–267 (IF_{2017} 1.086) – DOI:10.6060/mhc160962n

132. "Tuning the optical properties of poly(*p*-phenylene ethynylene) nanoparticles as bio-imaging probes by side chain functionalization": D'Olieslaeger, L.; Braeken, Y.; Cheruku, S.; Smits, J.; Ameloot, M.; Vanderzande, D.; Maes, W.; Ethirajan, A., *J. Colloid Interface Sci.* **2017**, *504*, 527–537 (IF_{2017} 5.091) – DOI:10.1016/j.jcis.2017.05.072

131. "Designing Small Molecule Organic Solar Cells with High Open-Circuit Voltage": Kudrjasova, J.; Van Landeghem, M.; Vangerven, T.; Kesters, J.; Heintges, G. H. L.; Cardinaletti, I.; Lenaerts R.; Penxten, H.; Adriaensens, P.; Lutsen, L.; Vanderzande, D.; Manca, J.; Goovaerts, E.; Maes, W. *ChemistrySelect* **2017**, *2*, 1253–1261 (IF_{2017} 1.505) – DOI:10.1002/slct.201601915

130. "Steering the performance of MoO_3 hole transporting layers for organic photovoltaics: interface morphology vs. electronic structure": Marchal, W.; Verboven, I.; Kesters, J.; Moeremans, B.; De

Dobbelaere, C.; Bonneux, G.; Elen, K.; Conings, B.; Maes, W.; Boyen, H.-G.; Deferme, W.; Van Bael, M. K.; Hardy, A. *Materials* **2017**, *10*, 123 (IF_{2017} 2.467) – DOI:10.3390/ma10020123 – *Open Access*

129. "Eco-Friendly Fabrication of PBDTTPD:$PC_{71}BM$ Solar Cells Reaching a PCE of 3.8% Using Water-Based Nanoparticle Dispersions": D'Olieslaeger, L.; Pirotte, G.; Cardinaletti, I.; D'Haen, J.; Manca, J.; Vanderzande, D.; Maes, W.; Ethirajan, A. *Org. Electron.* **2017**, *42*, 42–46 (IF_{2017} 3.680) – DOI:10.1016/j.orgel.2016.12.018

128. "Tuning of PCDTBT:$PC_{71}BM$ blend nanoparticles for eco-friendly processing of polymer solar cells": D'Olieslaeger, L.; Pfannmöller, M.; Fron, E.; Cardinaletti, I.; Van Der Auweraer, M.; Van Tendeloo, G.; Bals, S.; Maes, W.; Vanderzande, D.; Manca, J.; Ethirajan, A., *Sol. Energy Mater. Sol. Cells* **2017**, *159*, 179–188 (IF_{2017} 5.018) – DOI:10.1016/j.solmat.2016.09.008

127. "Elucidating Batch-to-batch Variation Caused by Homocoupled Side Products in Solution Processable Organic Solar Cells": Vangerven, T.; Verstappen, P.; Patil, N.; D'Haen, J.; Cardinaletti, I.; Benduhn, J.; Van den Brande, N.; Defour, M.; Lemaur, V.; Beljonne, D.; Lazzaroni, R.; Champagne, B.; Vandewal, K.; Andreasen, J. W.; Adriaensens, P.; Breiby, D. W.; Van Mele, B.; Vanderzande, D.; Maes, W.; Manca, J. *Chem. Mater.* **2016**, *28*, 9088–9098 (IF_{2016} 9.466) – DOI:10.1021/acs.chemmater.6b04143

126. "A stability study of polymer solar cells using conjugated polymers with different donor or acceptor side chain patterns": Heckler, I. M.; Kesters, J.; Defour, M.; Penxten, H.; Van Mele, B.; Maes, W.; Bundgaard, E. *J. Mater. Chem. A* **2016**, *4*, 16677–16689 (IF_{2016} 8.867) – DOI:10.1039/C6TA07244E

125. "Influence of the amorphous phase and preceding solution processing on the eutectic behaviour in the state diagram of P3HT:$PC_{61}BM$ determined by rapid heat-cool calorimetry": Defour, M.; Van den Brande, N.; Van Lokeren, L.; Van Assche, G.; Maes, W.; Vanderzande, D.; Van Mele, B., *RSC Adv.* **2016**, *6*, 92981–92988 (IF_{2016} 3.108) – DOI:10.1039/C6RA20659J

124. "Synthesis of highly fluorescent all-conjugated alternating donor-acceptor (block) copolymers via GRIM polymerization": Govaerts, S.; Verstappen, P.; Penxten, H.; Defour, M.; Van Mele, B.; Lutsen, L.; Vanderzande, D.; Maes, W. *Macromolecules* **2016**, *49*, 6411–6419 (IF_{2016} 5.835) – DOI:10.1021/acs.macromol.6b01389

123. "Phosphorescence of Free Base Corroles": Knyukshto, V. N.; Ngo, T. H.; Dehaen, W.; Maes, W.; Kruk, M. M. *RSC Adv.* **2016**, *6*, 43911–43915 (IF_{2016} 3.108) – DOI:10.1039/C6RA06196F

122. "Impact of structure and homo-coupling of the central donor unit of small molecule organic semiconductors on solar cell performance": Verstappen, P.; Cardinaletti, I.; Vangerven, T.; Vanormelingen, W.; Verstraeten, F.; Lutsen, L.; Vanderzande, D.; Manca, J.; Maes, W., *RSC Adv.* **2016**, *6*, 32298–32307 (IF_{2016} 3.108) – DOI:10.1039/C6RA06146J - *Open Access*

121. "Improved Efficiency of Polymer-Fullerene Bulk Heterojunction Solar Cells by the Addition of Cu(II)-Porphyrin-Oligothiophene Conjugates": Stoltsfuz, D. M.; Kesters, J.; Kelchtermans, M.; Verstappen, P.; Cardinaletti, I.; Cornelissen, R.; D'Haen, J.; Lutsen, L.; Vanderzande, D.; Manca, J.; Bielawski, C. W.; Maes, W.; Sessler, J. L., *Synth. Metals* **2016**, *218*, 1–8 (IF_{2016} 2.435) – DOI:10.1016/j.synthmet.2016.04.026

120. "The influence of conjugated polymer side chain manipulation on the efficiency and stability of polymer solar cells": Heckler, I.; Kesters, J.; Defour, M.; Madsen, M. V.; Penxten, H.; D'Haen, J.; Van Mele, B.; Maes, W.; Bundgaard, E., *Materials* **2016**, *9*, 181 (IF_{2016} 2.654) – DOI:10.3390/ma9030181 - *Open Access*

119. "High Permittivity Conjugated Polyelectrolyte Interlayers for High Performance Bulk Heterojunction Organic Solar Cells": Kesters, J.; Govaerts, S.; Pirotte, G.; Drijkoningen, J.; Chevrier, M.; Van den Brande, N.; Liu, X.; Fahlman, M.; Van Mele, B.; Lutsen, L.; Vanderzande, D.; Manca, J.; Clément, S.; Von Hauff, E.; Maes, W. *ACS Appl. Mater. Interfaces* **2016**, *8*, 6309–6314 (IF_{2016} 7.504) – DOI:10.1021/acsami.6b00242 - *Open Access*

118. "Regioregular Polythiophene-Porphyrin Supramolecular Copolymers for Optoelectronic Applications": Chevrier, M.; Kesters, J.; Blayo, C.; Richeter, S.; Van Der Lee, A.; Coulembier, O.; Surin, M.; Mehdi, A.; Lazzaroni, R.; Evans, R. C.; Maes, W.; Dubois, P.; Clément, S. *Macromol. Chem. Phys.* **2016**, 217, 445–458 (IF_{2016} 2.500) – DOI:10.1002/macp.201500280

117. "Homodiselenacalix[4]arenes: molecules with unique channeled crystal structures": Thomas, J.; Dobrzańska, L.; Van Meervelt, L.; Quevedo, M. A.; Woźniak, K.; Stachowicz, M.; Smet, M.; Maes, W.; Dehaen, W., *Chem. Eur. J.* **2016**, *22*, 979–987 (IF_{2016} 5.317) – DOI:10.1002/chem.201503385

116. "A direct arylation approach towards efficient small molecule organic solar cells": Kudrjasova, J.; Kesters, J.; Verstappen, P.; Brebels, J.; Vangerven, T.; Cardinaletti, I.; Drijkoningen, J.; Penxten, H.; Manca, J.; Lutsen, L.; Vanderzande, D.; Maes, W. *J. Mater. Chem. A* **2016**, *4*, 791–795 (IF_{2016} 8.867) – DOI:10.1039/C5TA09023G - *Open Access*

115. "Synthesis of N,N'-dialkyl-6,6'-dibromoisoindigo Derivatives by Continuous Flow": Maes, V.; Pirotte, G.; Brebels, J.; Verstappen, P.; Lutsen, L.; Vanderzande, D.; Maes, W., *J. Flow. Chem.* **2015**, *5*, 201–209 (IF_{2015} 1.942) – DOI:10.1556/1846.2015.00033

114. "Self-Assembled Conjugated Polyelectrolyte-Surfactant Complexes as Efficient Cathode Interlayer Materials for Bulk Heterojunction Organic Solar Cells": Chevrier, M.; Houston, J. E.; Kesters, J.; Van den Brande, N.; Terry, A. E.; Richeter, S.; Mehdi, A.; Coulembier, O.; Dubois, P.; Lazzaroni, R.; Van Mele, B.; Maes, W.; Evans, R. E.; Clément, S., *J. Mater. Chem. A* **2015**, *3*, 23905–23916 (IF_{2015} 8.262) – DOI:10.1039/C5TA06966A

113. "Combustion deposition of MoO_3 thin films: from fundamentals to OPV applications": Marchal, W.; De Dobbelaere, C.; Kesters, J.; Bonneux, G.; Vandenbergh, J.; Damm, H.; Junkers, T.; Maes, W.; D'Haen, J.; Van Bael, M.; Hardy, A., *RSC Adv.* **2015**, *5*, 91349–91362 (IF_{2015} 3.289) – DOI:10.1039/C5RA18001E

112. "Branched and linear A_2-D-A_1-D-A_2 isoindigo-based solution-processable small molecules for organic field-effect transistors and solar cells": Tomassetti, M.; Ouhib, F.; Cardinaletti, I.; Verstappen, P.; Salleo, A.; Jérôme, C.; Manca, J.; Maes, W.; Detrembleur, C. *RSC Adv.* **2015**, 5, 85460–85469 (IF_{2015} 3.289) – DOI:10.1039/C5RA17660C

111. "Dye-Sensitization of Boron-Doped Diamond Foam: Champion Photoelectrochemical Performance of Diamond Electrodes under Solar Light Illumination": Krysova, H.; Kavan, L.; Vlcková-

Zivcová, Z.; Yeap, W. S.; Verstappen, P.; Maes, W.; Haenen, K.; Gao, F.; Nebel, C. E., *RSC Adv.* **2015**, *5*, 81069–81077 (IF_{2015} 3.289) – DOI:10.1039/C5RA12413A

110. "Synthesis of a multifunctional poly(*p*-phenylene ethylene) scaffold with clickable azide-containing side chains": Braeken, Y.; Verstappen, P.; Lutsen, L.; Vanderzande, D.; Maes, W., *Polym. Chem.* **2015**, *6*, 6720–6731 (IF_{2015} 5.687) – DOI:10.1039/C5PY00741K

109. "Continuous Flow Polymer Synthesis toward Reproducible Large-Scale Production for Efficient Bulk Heterojunction Organic Solar Cells": Pirotte, G.; Kesters, J.; Verstappen, P.; Govaerts, S.; Manca, J.; Lutsen, L.; Vanderzande, D.; Maes, W., *ChemSusChem* **2015**, *8*, 3228–3233 (IF_{2015} 7.116) – DOI:10.1002/cssc.201500850

108. "Low bandgap copolymers based on monofluorinated isoindigo toward efficient polymer solar cells": Tomassetti, M.; Ouhib, F.; Wislez, A.; Duwez, A.-S.; Penxten, H.; Dierckx, W.; Bovee, R.; van Pruissen, G. W. P.; Jérôme, C.; Manca, J.; Maes, W.; Detrembleur, C., *Polym. Chem.* **2015**, *6*, 6040–6049 (IF_{2015} 5.687) – DOI:10.1039/C5PY00693G

107. "Origin of the individual basicity of corrole NH-tautomers: a quantum chemical study on molecular structure and dynamics, kinetics, and thermodynamics": Beenken, W.; Maes, W.; Kruk, M.; Martinez, T.; Presselt, M. *J. Phys. Chem. A* **2015**, 119, 6875–6883 (IF_{2015} 2.883) – DOI:10.1021/acs.jpca.5b02869

106. "Simultaneous enhancement of solar cell efficiency and stability by reducing the side chain density on fluorinated PCPDTQx copolymers": Verstappen, P.; Kesters, J.; D'Olieslaeger, L.; Drijkoningen, J.; Cardinaletti, I.; Vangerven, T.; Bruijnaers, B. J.; Willems, R. E. M.; D'Haen, J.; Manca, J. V.; Lutsen, L.; Vanderzande, D. J. M.; Maes, W., *Macromolecules* **2015**, *48*, 3873–3882 (IF_{2015} 5.554) – DOI:10.1021/acs.macromol.5b00035

105. "Quantum Chemical Insights into the Dependence of Porphyrin Basicity on the *meso*-Aryl Substituents: Thermodynamics, Buckling, Reaction Sites and Molecular Flexibility": Presselt, M.; Dehaen, W.; Maes, W.; Klamt, A.; Martinez, T.; Beenken, W. J. D.; Kruk, M. M. *Phys. Chem. Chem. Phys.* **2015**, *17*, 14096–14106 (IF_{2015} 4.449) – DOI:10.1039/C5CP01808K

104. "Molar mass versus polymer solar cell performance: Highlighting the role of homocouplings": Vangerven, T.; Verstappen, P.; Drijkoningen, J.; Dierckx, W.; Himmelberger, S.; Salleo, A.; Vanderzande, D.; Maes, W.; Manca, J. V., *Chem. Mater.* **2015**, *27*, 3726–3732 (IF_{2015} 9.407) – DOI:10.1021/acs.chemmater.5b00939

103. "Porphyrin-Based Bulk Heterojunction Organic Photovoltaics: The Rise of the Colors of Life": Kesters, J.; Verstappen, P.; Kelchtermans, M.; Lutsen, L.; Vanderzande, D.; Maes, W., *Adv. Energy Mater.* **2015**, 1500218 (IF_{2015} 15.230) – DOI:10.1002/aenm.201500218

102. "Electro-reduction of Oxygen to Water Mediated by Stable Glassy Carbon Electrodes Modified by Co(II)-porphyrins with Voluminous Meso-Substituents": Marín V., A.; Aguirre, M. J.; Muena, J. P.; Dehaen, W.; Maes, W.; Ngo, T. H.; Ramírez, G.; Arévalo, M. C., *Int. J. Electrochem. Sci.* **2015**, *10*, 3949–3960 (IF_{2015} 1.692) - *Open Access*

101. "Effect of molecular weight on morphology and photovoltaic properties in P3HT:PCBM solar cells": Spoltore, D.; Vangerven, T.; Verstappen, P.; Piersimoni, F.; Bertho, S.; Vandewal, K.; Van den Brande, N.; Defour, M.; Van Mele, B.; De Sio, A.; Parisi, J.; Lutsen, L.; Vanderzande, D.; Maes, W.; Manca, J. V. *Org. Electron.* **2015**, 21, 160–170 (IF_{2015} 3.471) – DOI:10.1016/j.orgel.2015.02.017

100. "Enhanced Organic Solar Cell Stability by Polymer (PCPDTBT) Side Chain Functionalization": Kesters, J.; Verstappen, P.; Raymakers, J.; Vanormelingen, W.; Drijkoningen, J.; D'Haen, J.; Manca, J.; Lutsen, L.; Vanderzande, D.; Maes, W. *Chem. Mater.* **2015**, *27*, 1332–1341 (IF_{2015} 9.407) – DOI:10.1021/cm504391k

99. "Linear and propeller-like fluoro-isoindigo based donor-acceptor small molecules for organic solar cells": Ouhib, F.; Tomassetti, M.; Dierckx, W.; Verstappen, P.; Wisley, A.; Duwez, A.-S.; Lemaur, V.; Lazzaroni, R.; Manca, J.; Maes, W.; Jérôme, C.; Detrembleur, C., *Org. Electron.* **2015**, *20*, 76–88 (IF_{2015} 3.471) – DOI:10.1016/j.orgel.2015.01.033

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