



HAL
open science

Correction: Decrease in thermal conductivity in polymeric P3HT nanowires by size-reduction induced by crystal orientation: new approaches towards thermal transport engineering of organic materials

Miguel Muñoz Rojo, Jaime Martín, Stéphane Grauby, Theodorian Borca-Tasciuc, Stefan Dilhaire, Marisol Martin-Gonzalez

► **To cite this version:**

Miguel Muñoz Rojo, Jaime Martín, Stéphane Grauby, Theodorian Borca-Tasciuc, Stefan Dilhaire, et al.. Correction: Decrease in thermal conductivity in polymeric P3HT nanowires by size-reduction induced by crystal orientation: new approaches towards thermal transport engineering of organic materials. *Nanoscale*, 2015, 7 (9), pp.4256-4257. 10.1039/C5NR90020D . hal-01407516

HAL Id: hal-01407516

<https://hal.science/hal-01407516>

Submitted on 2 Dec 2016

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Distributed under a Creative Commons Attribution 4.0 International License

Correction: Decrease in thermal conductivity in polymeric P3HT nanowires by size-reduction induced by crystal orientation: new approaches towards thermal transport engineering of organic materials

Miguel Muñoz Rojo,^a Jaime Martín,^a Stéphane Grauby,^b Theodorian Borca Tasciuc,^c Stefan Dilhaire^b and Marisol Martín González^{*a}

Correction for 'Decrease in thermal conductivity in polymeric P3HT nanowires by size-reduction induced by crystal orientation: new approaches towards thermal transport engineering of organic materials' by Miguel Muñoz Rojo *et al.*, *Nanoscale*, 2014, **6**, 7858–7865.

The authors wish to make the following corrections to the manuscript:

(a) The composite thermal conductivity of the 220 nm diameter composite should be quoted as $1.21 \text{ W K}^{-1} \text{ m}^{-1}$ instead of $1.18 \text{ W K}^{-1} \text{ m}^{-1}$ in Table 1 on page 7860 and in line 3 of the text on page 7862.

(b) In the last paragraph of text at the end of page 7862 and in the caption for Fig. 2b on page 7863, the written diameter should be quoted as 220 nm instead of 250 nm.

(c) In the text and caption for Fig. S5 on page 6 of the supplementary information, the written diameter should be quoted as 350 nm instead of 300 nm.

(d) Fig. 3 in the manuscript does not represent the thermal conductivities given in Table 1 because of graphical data misplacement of the 220 nm and 350 nm diameter results. The new Fig. 3 shows the correct thermal conductivity values of 0.7 W Km^{-1} (instead of 0.58 W Km^{-1}) for 220 nm and 2.29 W Km^{-1} (instead of 2.2 W Km^{-1}) for 350 nm. It also includes error bars for the measured thermal conductivities. Fig. 3 should appear as follows:

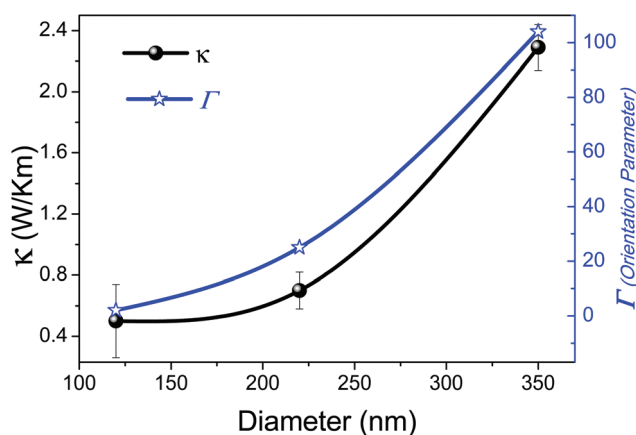


Fig. 1 Plot of the thermal conductivity (black spheres) and the orientation parameter, Γ , (blue stars) of P3HT NWs as a function of the NW diameter. $\Gamma = \gamma_{\perp}/1.18\gamma_{\parallel}$, where γ_{\perp} and γ_{\parallel} are the areas of the (100) peaks in directions perpendicular and parallel to the NW axis, respectively. The coefficient 1.18 is extracted from the ratio $\gamma_{\perp}/\gamma_{\parallel}$ of the bulk P3HT.

^aInstituto de Microelectrónica de Madrid, Calle de Isaac Newton, 8 28760 Tres Cantos, Madrid, Spain. E mail: marisol@imm.cnm.csic.es

^bUniv. Bordeaux, LOMA, UMR 5798, 33405 Talence, France

^cRensselaer Polytechnic Institute, 110 8th St, Troy, NY 12180, USA