

# **Photoconduction Properties in Aligned Assemblies of Colloidal CdSe-CdS Nanorods**

Anna Persano<sup>1</sup>, Milena De Giorgi<sup>2</sup>, Angela Fiore<sup>3</sup>, Roberto Cingolani<sup>2</sup>, Liberato Manna<sup>3</sup>, Adriano Cola<sup>1</sup> and Roman Krahne<sup>3</sup>

<sup>1</sup>IMM-CNR, Institute for Microelectronics and Microsystems – Unit of Lecce, Via Monteroni, I-73100 Lecce, Italy

<sup>2</sup>NNL-National Nanotechnology Laboratory of CNR-INFN, Via Arnesano 16, 73100 Lecce, Italy

<sup>3</sup>IIT- Italian Institute of Technology, Via Morego 30, 16163 Genova, Italia

corresponding author: [roman.krahne@iit.it](mailto:roman.krahne@iit.it)

**Supporting Information:**

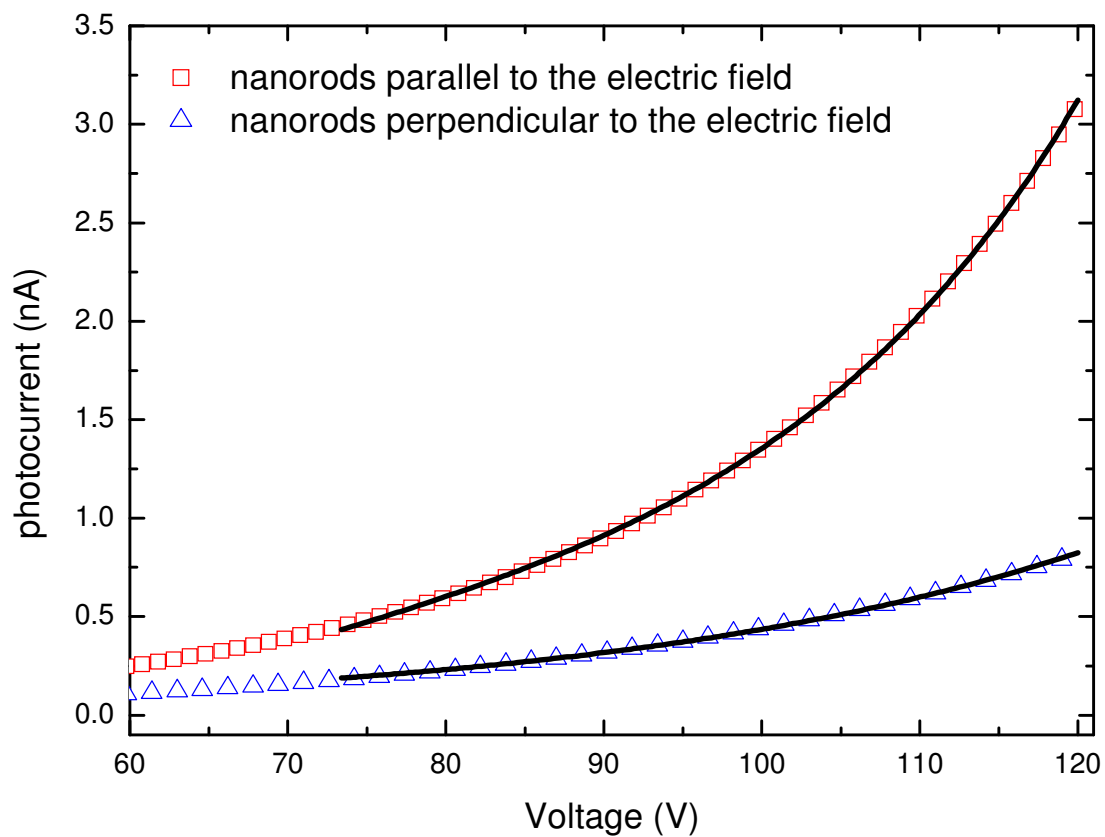


Figure S1: Fits (black solid lines) to the orientation dependent photocurrent data (red squares and blue triangles for rods parallel and perpendicular to the electric field, respectively) displayed in Fig. 4c of the main paper with the model of Leatherdale *et al.*<sup>35</sup>

The values obtained from the fitting are reported in the following table:

	nanorods parallel to the electric field	Nanorods perpendicular to the electric field
Site-to-site potential	V/133	V/1166
Rod-to-rod distance	8 Å	11 Å
Energy cost between initial and final states	0.50 eV	0.54 eV
Barrier height	1.2 eV	0.3 eV