

University of Groningen

Charge extraction from colloidal inorganic nanocrystals

Szendrei, Krisztina

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version

Publisher's PDF, also known as Version of record

Publication date:

2011

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Szendrei, K. (2011). *Charge extraction from colloidal inorganic nanocrystals*. s.n.

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

Take-down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

List of publications

Solution-processable near-IR photodetectors based on electron transfer from PbS nanocrystals to fullerene derivatives

K. Szendrei, F. Cordella, M. Kovalenko, M. Böberl, G. Hesser, M. Yarema, D. Jarzab, O. V. Mikhnenko, A. Gocalinska, F. Quochi, A. Mura, G. Bongiovanni, P. W. M. Blom, W. Heiss, M. A. Loi, *Advanced Materials*, **21**, 683, (2009)

Ambipolar all-polymer bulk heterojunction field-effect transistors

K. Szendrei, D. Jarzab, Z. Chen, A. Facchetti, M. A. Loi, *Journal of Materials Chemistry*, **20**, 1317, (2010)

Surface modification of semiconductor nanocrystals by a methanofullerene carboxylic acid

K. Szendrei, D. Jarzab, M. Yarema, M. Sytnyk, S. Pichler, J. C. Hummelen, W. Heiss, M. A. Loi, *Journal of Materials Chemistry*, **20**, 8470, (2010)

Size-dependent electron transfer from colloidal PbS nanocrystals to fullerene

A. Gocalinska, M. Saba, F. Quochi, M. Marceddu, K. Szendrei, J. Gao, M. A. Loi, M. Yarema, R. Seyrkammer, W. Heiss, A. Mura, G. Bongiovanni, *Journal of Physical Chemistry Letters*, **1**, 1149, (2010)

PbS nanocrystal solar cells with high efficiency and fill factor

K. Szendrei, W. Gomulya, M. Yarema, W. Heiss, M. A. Loi, *Applied Physics Letters*, **97**, 203501, (2010)

Charge separation dynamics in inorganic-organic ternary blends for efficient infrared photodiodes

D. Jarzab, K. Szendrei, M. Yarema, S. Pichler, W. Heiss, M. A. Loi, *Advanced Functional Materials*, DOI: 10.1002/adfm.201001999, (2011)

Infrared emitting and photoconducting colloidal silver chalcogenide nanocrystal quantum dots from a silylamide promoted synthesis

M. Yarema, S. Pichler, M. Sytnyk, R. Seyrkammer, R. Lechner, G. Fritz-Popovski, D. Jarzab, K. Szendrei, R. Resel, O. Korovyanko, M. A. Loi, O. Paris, G. Hesser, W. Heiss, *ACS Nano*, DOI: 10.1021/nn2001118, (2011)

Thickness and light intensity dependence of PbS NC solar cells

K. Szendrei, W. Gomulya, M. Yarema, W. Heiss, M. A. Loi, *manuscript in preparation*

Low temperature optical and electrical properties of PbS NC arrays

K. Szendrei, M. Speirs, D. Jarzab, M. Manca, O. V. Mikhnenko, M. Yarema, W. Heiss, M. A. Loi, *manuscript in preparation*