

# NANO-TECHNOLOGY IN CONSTRUCTION



المؤتمر الدولي السابع لتكنولوجيا الناتو في الانشاء (NTC 2015)

Seventh International Conference on

# Paper title

## **Author names**

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# ABSTRACT

CdSe nanocrystalline had been prepared via colloidal chemical method.

# **Key Words**

5-8 words

## INTRODUCTION

Semiconductor nanocrystals, or quantum dots, are attractive physical systems because the strong confinement of excited electrons and holes leads to dramatically different optical properties [1,2].

# EXPERIMENTAL

QDs were prepared according to procedure developed by Murray et al [10], the colloidal chemical processes to synthesize the CdSe QDs, CdO and Se were used as precursors.

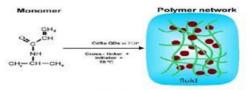


Fig.1: Scheme summarize the process of Preparation

Table 1: Stock shift of 1st and 2nd absorbance and emission Peaks.

Sample name	1st Abs.Peak $(\hat{\lambda}_{abc}.)$	1st Emiss. Peak ( λem.)	Stock Shift $(\Delta S)$	
Pure	300 nm	453 nm	153	

## REFERENCES

- 1. D.C. Harris, W.H.Freeman Co., New York. "Quantitive Chemical Analysis" 5th Ed.
- 2. Cristina Buzea, Ivan Pacheco, and Kevin Robbie. "Nanomaterials and Nanoparticles: Sources and Toxicity". Biointerphases 2: MR17, (2007).

# Seventh International Conference on NANO-TECHNOLOGY IN CONSTRUCTION (NTC 2015) Sharm El-Sheikh, Egypt

### Introduction:

Introduction:

Nanotechnology is the enabling technology that allows us to develop materials with improved or totally new properties. Changing the properties of material particles without affecting their chemical composition can now be easily achieved utilizing nanotechnology. The building and construction sector will inevitably be a beneficiary with nanotechnology due to its significant impact in improving the physical and mechanical properties of the materials. Therefore, it is considered to be the base of future technologies. The application of nanotechnology can be of great help in innovating green and sustainable construction.

This series of conferences started in 2009. The conference gathered participants from different countries in the world and provided a platform for discussions and reporting about research results. HBRC and ERU agreed upon organizing the current conference to explore potentials and facilitate the cooperation in nanotechnology fields.

## Objectives:

This conference aims at stimulating international collaborative research in nanotechnology, discussing the application of recent related research results in green and sustainable construction and providing an opportunity for scientists and practicing engineers from different countries to exchange ideas and experience.

### Guidelines for preparation of papers:

Summaries and full texts of papers should be submitted in electronic form prepared in MS word 2003/2013. Manuscripts must be formatted as max. of 12 pages, paper size A4, font Times New roman, font size 14, single line spacing, margins (Top, Bottom, right, left) 25 mm. The text should include the title, authors names, degree, position, institution, telephone number, email address, abstract (1 paragraph) and keywords (5-5). All figures and tables should be enumerated and entitled.

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### Conference Themes:

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### Conference Fees:

- 2400 EGP / person for Egyptian. 700 USD / person for Non-Egyptian.
- Payment of registration fees must pay before 1 March 2015 and it could be
- 2015 and it could be: In cash or by cheque to "Egyptian Russian university" at the following address: Housing & Building National Research Center 87 EI Tahrir Str. Dokki, Giza, Egypt

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Prepare your paper according to the detailed requirements listed in the guidelines for preparation of the papers. The guidelines are available on the conference site. All unformatted manuscripts will be rejected. Please send

# your paper to E-mail: ntc\_nano@yahoo.com

Selected papers will be published in HBRC Journal and/or Russian Journal of Construction Materials.

Registration
Participants of the conference are asked to fill out the registration form available at the conference site.
E-mail: rtc\_nano@yahoo.com
www.hbrcntc.com

Language
The conference language is English. Presentations and proceedings will be in English.

Exhibition:
An exhibition will be held at the Hotel premises.

Exhibitors are welcome.

## Deadlines

Submission of abstract 01/01/2015 Submission of full manuscript 01/02/2015 Final acceptance 01/03/2015

The venue of the conference is at Sharm El-Sheikh.

For more information, Please visit: www.hbrc.edu.eg



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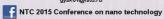
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