

Accepted Manuscript

Synthesis and properties of alloyed $\text{Cd}_x\text{Zn}_{1-x}\text{Se}$ core and manganese-doped $\text{Cd}_x\text{Zn}_{1-x}\text{Se/ZnS}$ core/shell nanocrystals

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PII: S0925-8388(18)31008-9

DOI: [10.1016/j.jallcom.2018.03.140](https://doi.org/10.1016/j.jallcom.2018.03.140)

Reference: JALCOM 45370

To appear in: *Journal of Alloys and Compounds*

Received Date: 22 November 2017

Revised Date: 9 March 2018

Accepted Date: 11 March 2018

Please cite this article as: C.-H. Huang, C.-H. Yang, Y.-T. Shieh, T.-L. Wang, Synthesis and properties of alloyed $\text{Cd}_x\text{Zn}_{1-x}\text{Se}$ core and manganese-doped $\text{Cd}_x\text{Zn}_{1-x}\text{Se/ZnS}$ core/shell nanocrystals, *Journal of Alloys and Compounds* (2018), doi: 10.1016/j.jallcom.2018.03.140.

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