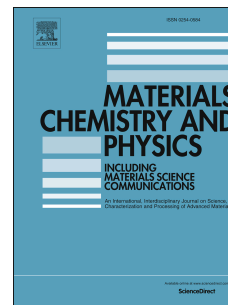


# Accepted Manuscript

Improvement of the optical and photocatalytic properties of ZnSe QDs by growth of ZnS shell using a new approach

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• ZnSe/ZnS QDs were prepared by a photochemical approach • TGA acted as both of the capping agent and  $S^{2-}$  source for ZnS shell growth • Optical properties and photocatalytic activity were improved after ZnS shell growth

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