LIST OF PUBLICATIONS

1. An approach for optimizing the shell thickness of core-shell quantum dots using photoinduced charge transfer.

2. Synthesis of CdS nanorods and nanospheres: shape tuning by controlled addition rate of sulphide at room temperature.

3. Silanised CdSe QDs for the selective detection of biothiols.
   **R. Vinayakan** and K. George Thomas
   *(Under submission to Angew. Chem. Int. Ed.)*

4. Silanised CdSe QDs for the selective detection of Hg$^{2+}$ in aqueous media.
   **R. Vinayakan** and K. George Thomas
   *(Under submission to Chem. Commun.)*

5. *In vitro* cytotoxicity analysis and imaging using silanised CdSe QDs.
   M. Vibin, **R. Vinayakan**, and Annie Abraham. *(To be submitted).*