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PbS colloidal quantum dots for near-infrared optoelectronics

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- 1. Many comparison studies of the influence of tetraalkylammonium halides as ligands or dopants for solution-processable semiconductors are missing two important points: having water in fluoride precursor misrepresents the outcome while the (only available) anhydrous fluoride precursor is incompatible with many chosen solvents (Chapter 2).
- 2. The industrialization of PbS CQD technologies requires an enormous upscaling of CQD synthesis and, probably, more sophisticated synthetic methods.
- 3. PbS CQD inks can be stored for months if they are properly engineered (Chapter 4).
- 4. It is essential to achieve efficient, cheap and durable large-scale solar fuel production for combating global warming.
- 5. Researchers often say "something worked/did not work" and "good/bad results". Such language is misleading.
- 6. Spending an extra hour on reading and planning an experiment can save a few hours in the lab or during the data analysis. However, sometimes it is easier and faster just to try something.
- 7. If I get a euro whenever someone fails to reproduce someone's results, I would be a millionaire.
- 8. The goal of chess is the checkmate and not capturing the queen or another piece. Even though, capturing a piece often leads to the checkmate.