

## Water-dispersed quantum dots of coordination polymers with strong photoluminescence

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We have developed an unprecedented strategy to prepare well-defined coordination polymers PZn QDs and NPs with high tunability metal ions and organic molecules as building blocks. For the first time, quantum dots of coordination polymers PZn with a uniform diameter of  $3 \pm 0.5$  nm were successfully prepared by rationally controlling the reaction conditions. Significantly, the PZn QDs and NPs have good water dispersibility, high photoluminescence, and outstanding photostability. The results of cellular experiments show that the PZn QDs are remarkably suited for long-term cell imaging and would be promising candidates for fluorescent probes in biology, medicine, optics etc.

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