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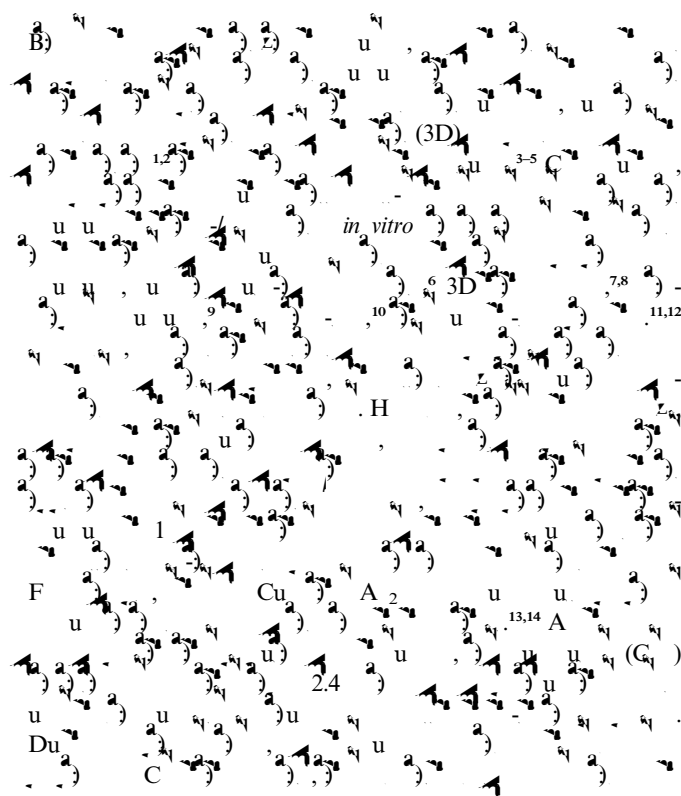
Facile additive-free solvothermal synthesis of cadmium sulfide flower-like three dimensional assemblies with unique optical properties and photocatalytic activity

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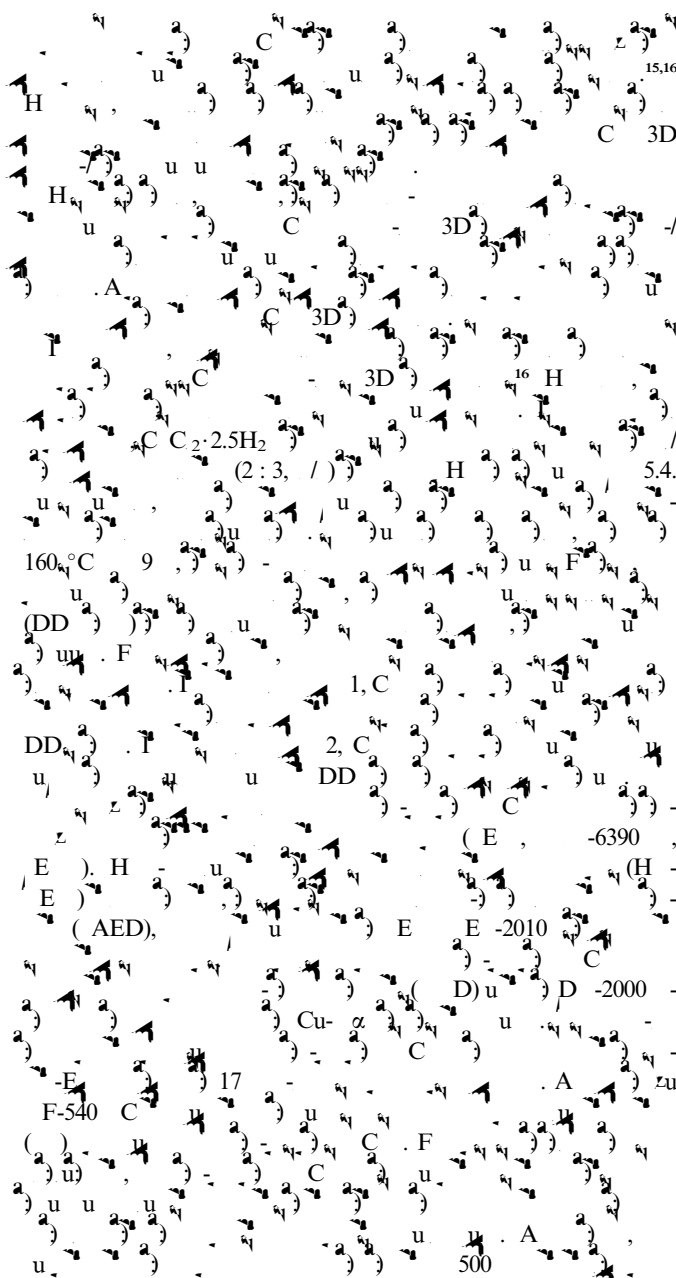
Cadmium sulfide flower-like 3D assemblies were successfully prepared through a facile additive-free solvothermal process. It was found that the ethanol played an important role in the formation of the CdS assemblies. Based on the time-dependent experiments, a possible mechanism was proposed. In addition, the CdS assemblies exhibit unique optical properties and potential photocatalytic activity.

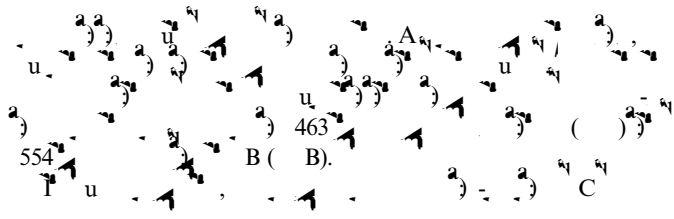


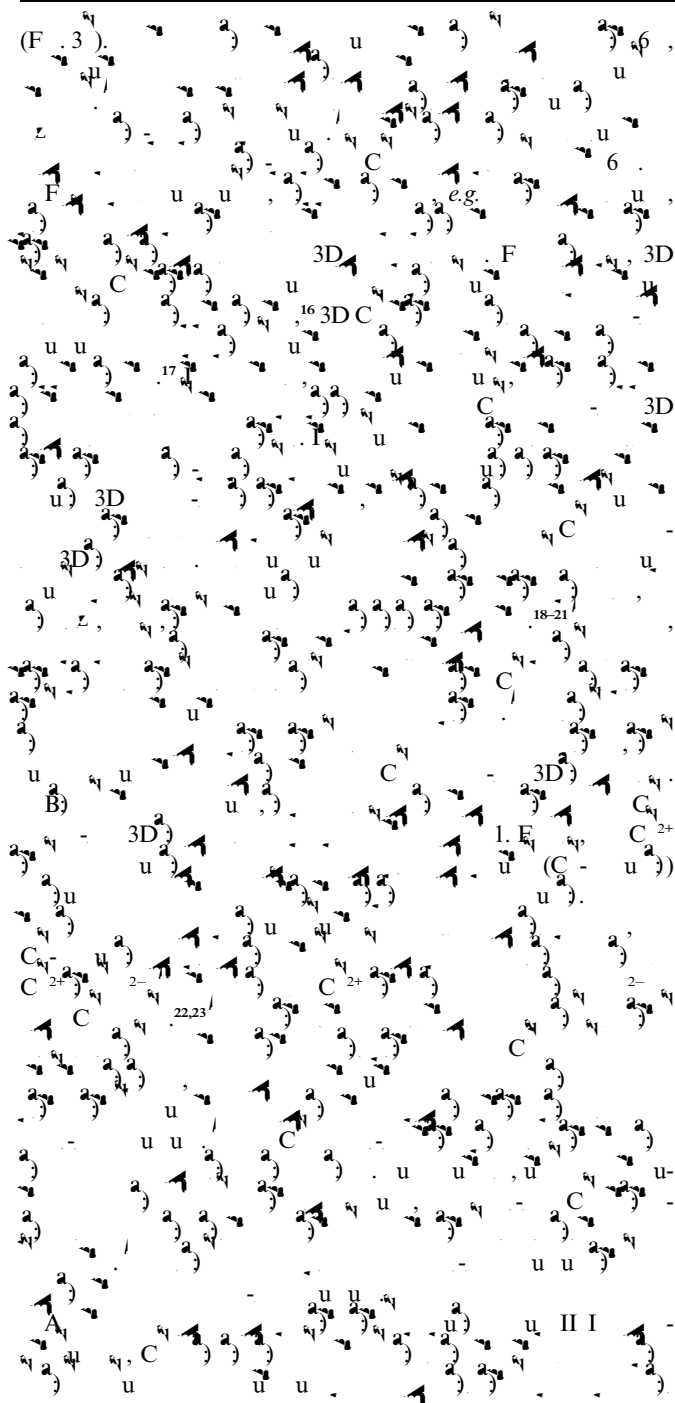
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Scheme 1
 C

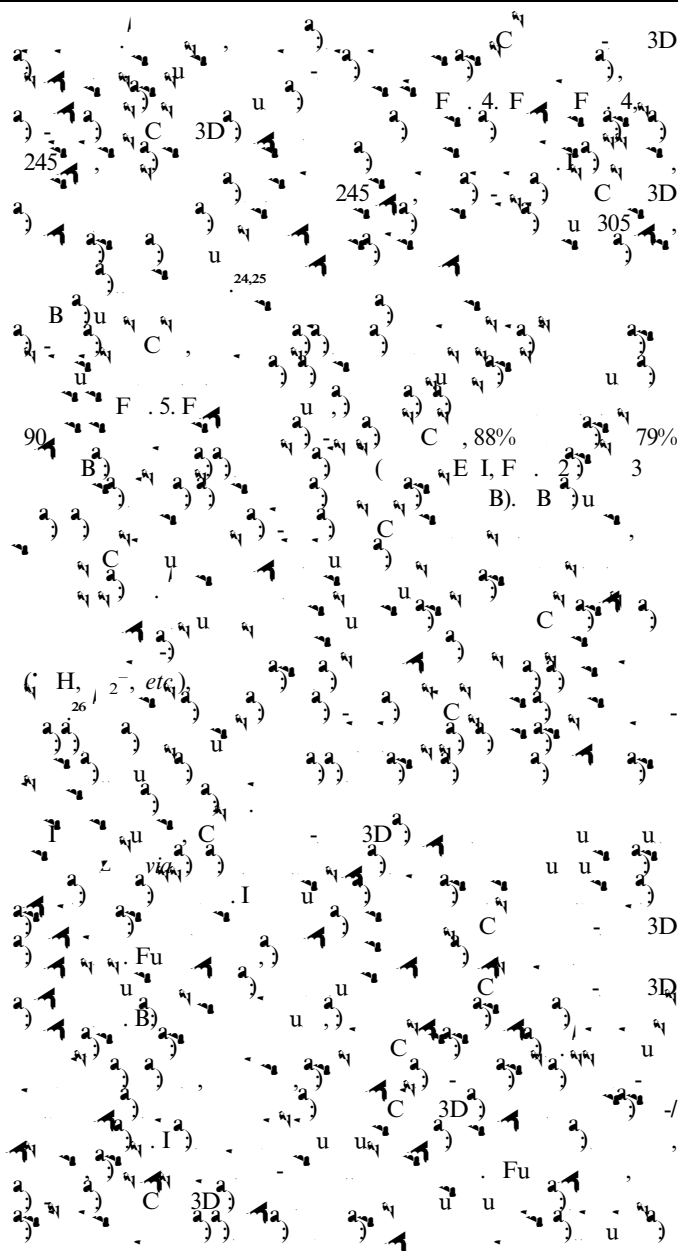


Fig. 4
 3D)

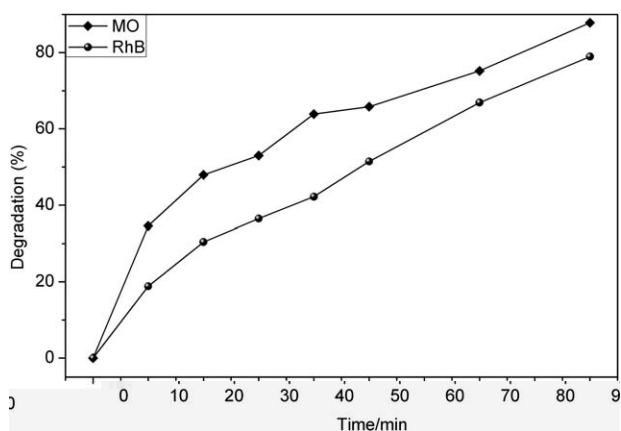


Fig. 5 MO and RhB degradation curves. (A) MO, (B) RhB, (C) MO and RhB, (D) MO and RhB, (E) MO and RhB, (F) MO and RhB, (G) MO and RhB, (H) MO and RhB, (I) MO and RhB, (J) MO and RhB, (K) MO and RhB, (L) MO and RhB, (M) MO and RhB, (N) MO and RhB, (O) MO and RhB, (P) MO and RhB, (Q) MO and RhB, (R) MO and RhB, (S) MO and RhB, (T) MO and RhB, (U) MO and RhB, (V) MO and RhB, (W) MO and RhB, (X) MO and RhB, (Y) MO and RhB, (Z) MO and RhB, (AA) MO and RhB, (AB) MO and RhB, (AC) MO and RhB, (AD) MO and RhB, (AE) MO and RhB, (AF) MO and RhB, (AG) MO and RhB, (AH) MO and RhB, (AI) MO and RhB, (AJ) MO and RhB, (AK) MO and RhB, (AL) MO and RhB, (AM) MO and RhB, (AN) MO and RhB, (AO) MO and RhB, (AP) MO and RhB, (AQ) MO and RhB, (AR) MO and RhB, (AS) MO and RhB, (AT) MO and RhB, (AU) MO and RhB, (AV) MO and RhB, (AW) MO and RhB, (AX) MO and RhB, (AY) MO and RhB, (AZ) MO and RhB, (BA) MO and RhB, (BB) MO and RhB, (BC) MO and RhB, (BD) MO and RhB, (BE) MO and RhB, (BF) MO and RhB, (BG) MO and RhB, (BH) MO and RhB, (BI) MO and RhB, (BJ) MO and RhB, (BK) MO and RhB, (BL) MO and RhB, (BM) MO and RhB, (BN) MO and RhB, (BO) MO and RhB, (BP) MO and RhB, (BQ) MO and RhB, (BR) MO and RhB, (BS) MO and RhB, (BT) MO and RhB, (BU) MO and RhB, (BV) MO and RhB, (BW) MO and RhB, (BX) MO and RhB, (BY) MO and RhB, (BZ) MO and RhB, (CA) MO and RhB, (CB) MO and RhB, (CC) MO and RhB, (CD) MO and RhB, (CE) MO and RhB, (CF) MO and RhB, (CG) MO and RhB, (CH) MO and RhB, (CI) MO and RhB, (CJ) MO and RhB, (CK) MO and RhB, (CL) MO and RhB, (CM) MO and RhB, (CN) MO and RhB, (CO) MO and RhB, (CP) MO and RhB, (CQ) MO and RhB, (CR) MO and RhB, (CS) MO and RhB, (CT) MO and RhB, (CU) MO and RhB, (CV) MO and RhB, (CW) MO and RhB, (CX) MO and RhB, (CY) MO and RhB, (CZ) MO and RhB, (DA) MO and RhB, (DB) MO and RhB, (DC) MO and RhB, (DD) MO and RhB, (DE) MO and RhB, (DF) MO and RhB, (DG) MO and RhB, (DH) MO and RhB, (DI) MO and RhB, (DJ) MO and RhB, (DK) MO and RhB, (DL) MO and RhB, (DM) MO and RhB, (DN) MO and RhB, (DO) MO and RhB, (DP) MO and RhB, 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