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## Liquid crystal self-assembly of upconversion nanorods enriched by depletion forces for mesostructured material preparation†

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✓ ✓ ✓

1. (002)  $d = 1.5$  nm  
1.  $d = 1.5$  nm  
1.  $d = 1.5$  nm  
0.3  $d = 1.5$  nm  
(002)  $d = 1.5$  nm

100%



## SEM characterization of the orientational ordering





ff

( . . 4 )

( . . 5 ) .

4,†

. . 5 . .

( . . 4 , . . ) .

( . . 3 . . ) .

. . 5

( . . 5 . . )

“ ” . . . 4

( . . . )

( . . 3 . . 4 ) .

( . . 4

ff

5,†

.6551()-13(-8()-3.4()- 47( )-12 )-13.

1 ( . . 6†)

## Discussion

17,18,41

ff

( . . . ) .

( . . 10

1 . . )

ff

( )

ff

ff

0. ,

## Conclusions

