

Supporting Information

Formation, Structure and Physical Properties of a Series of α -MoO₃ Nanocrystals: from 3D to 1D and 2D

Le Xin Song^{*a,b}, Juan Xia^a, Zheng Dang^a, Jun Yang^a, Liang Bing Wang^a and Jie Chen^a

^aDepartment of Chemistry, University of Science and Technology of China, Hefei 230026, P. R. China

^bState Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing 210093, P. R. China

solexin@ustc.edu.cn

A list of the contents for all the supporting information

Page	Contents
1	A table of contents page
2	Figure 1. XRD patterns of samples 5 (a), 6 (b), 7 (c) and 8 (d).
3	Figure 2. XRD patterns of samples 9 (a), 10 (b), 11 (c), 12 (d), 13 (e) and 14 (f).
4	Figure 3. XRD patterns of samples 15 (a), 16 (b), 17 (c) and 18 (d).
5	Figure 4. XPS patterns of samples 5~18 .
6	Figure 5. Raman patterns of samples (a) 15 , (b) 16 and (c) 17 .
7	Figure 6. PL spectra of samples 2 , 3 , 5~14 , 15 and 18 .

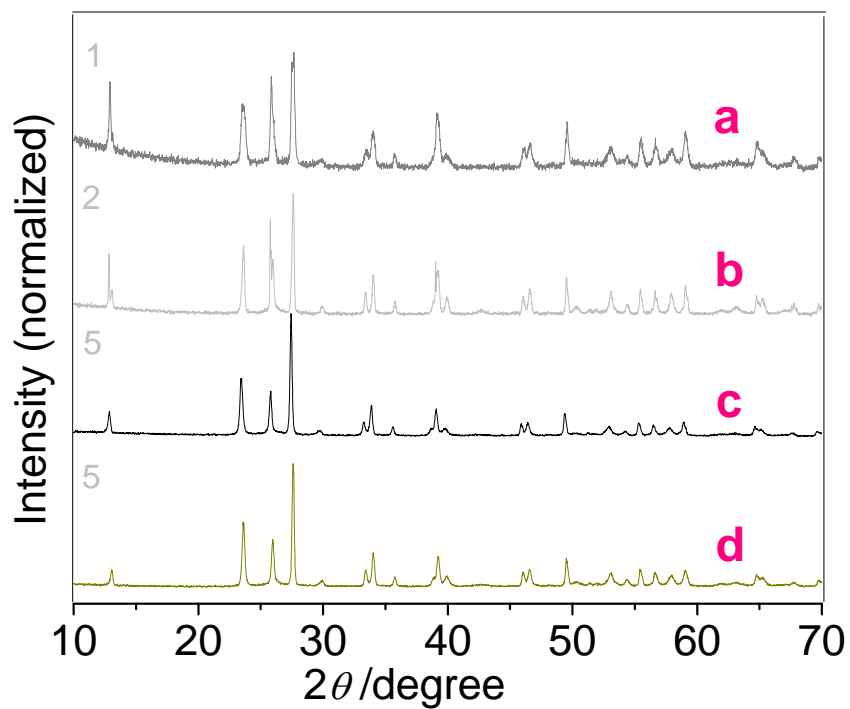


Figure 1. XRD patterns of samples **5** (a), **6** (b), **7** (c) and **8** (d). Relative signal intensity was normalized to the intensity of the peak at 27.4° in curve a.

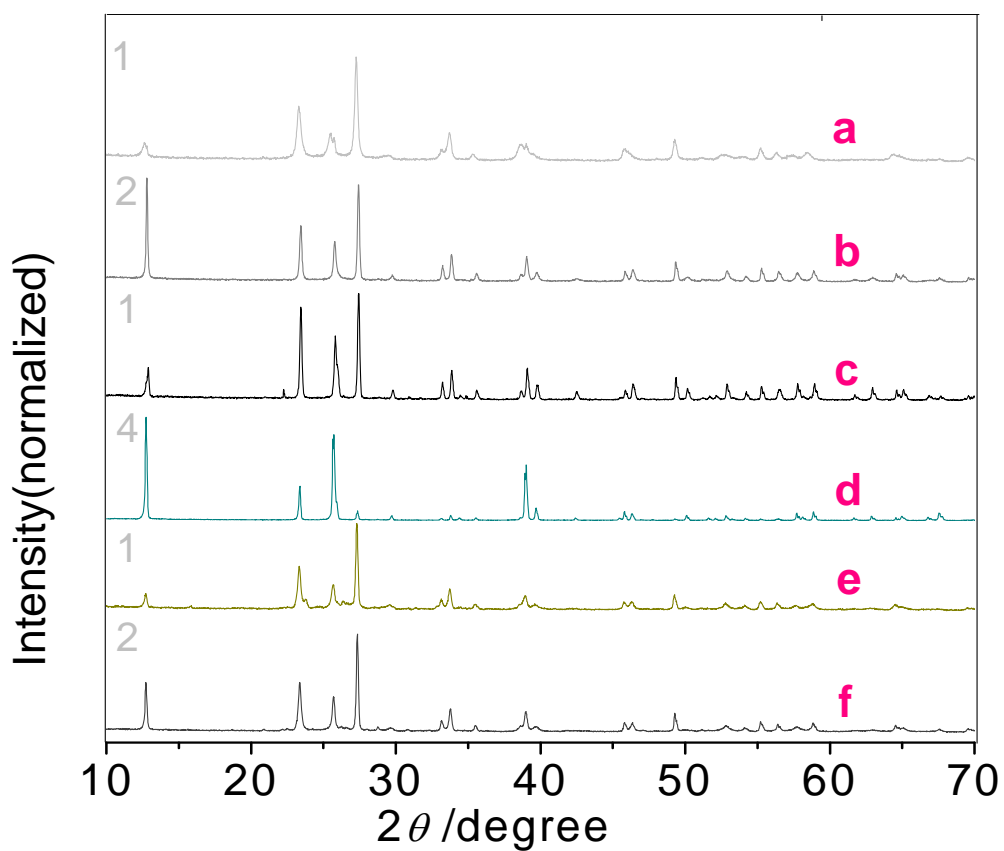


Figure 2. XRD patterns of samples **9** (a), **10** (b), **11** (c), **12** (d), **13** (e) and **14** (f). Relative signal intensity was normalized to the intensity of the peak at 27.4° in curve a.

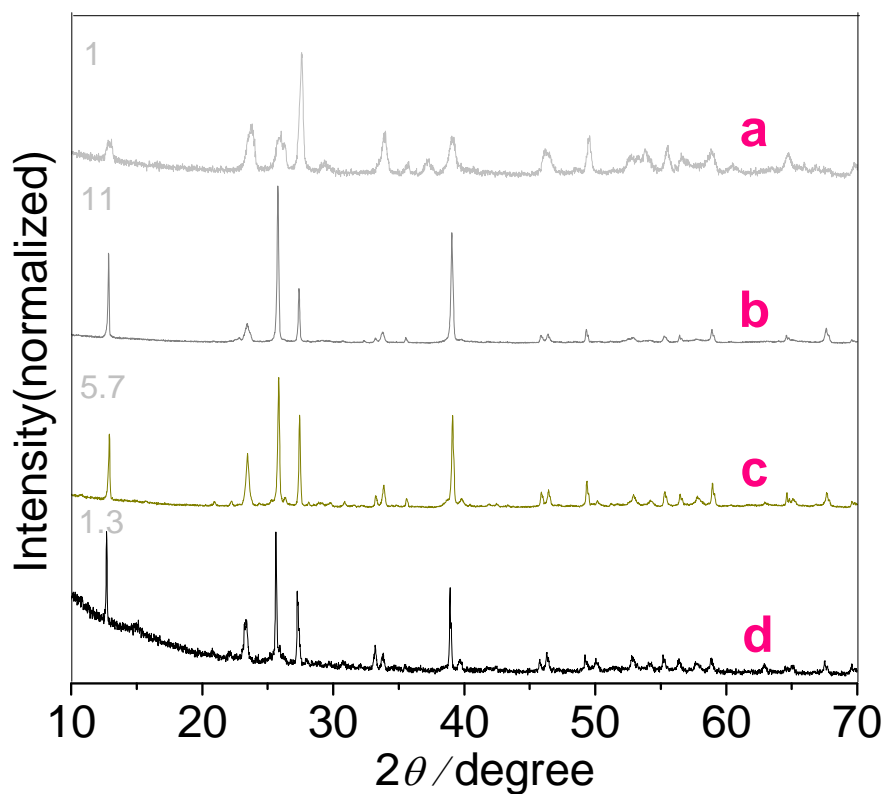


Figure 3. XRD patterns of samples **15** (a), **16** (b), **17** (c) and **18** (d). Relative signal intensity was normalized to the intensity of the peak at 27.4° in curve a.

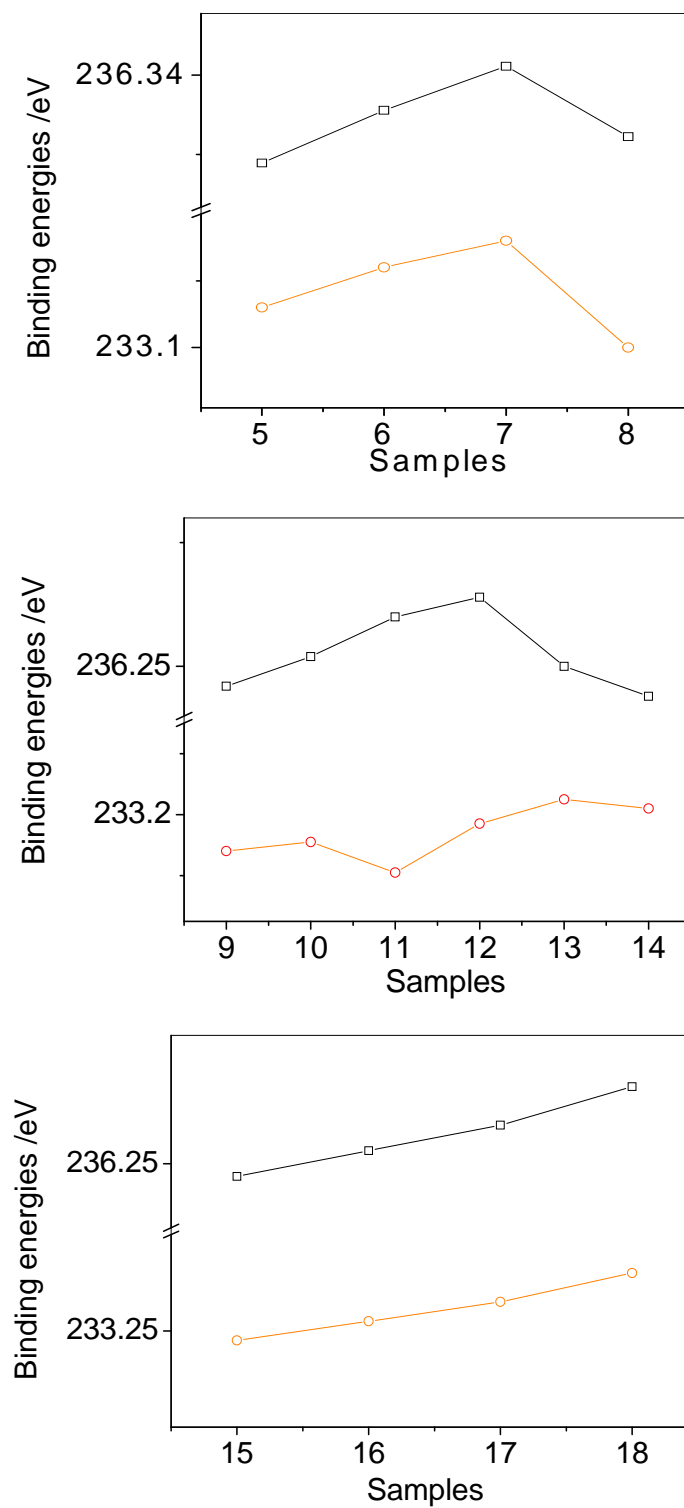


Figure 4. XPS patterns of samples 5~18, Mo 3d_{3/2} (dark lines) and 3d_{5/2} (orange lines).

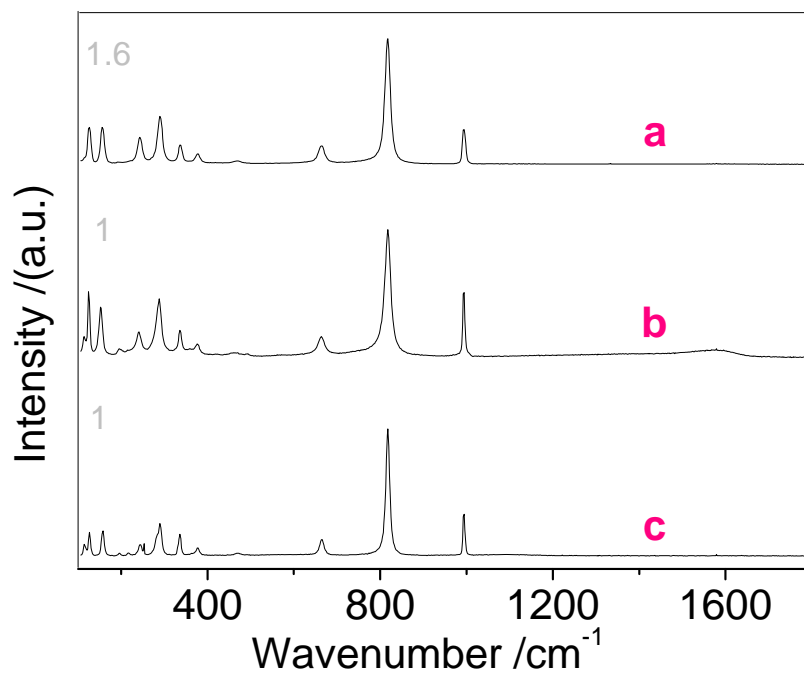


Figure 5. Raman patterns of samples **15** (a), **16** (b) and **17** (c).

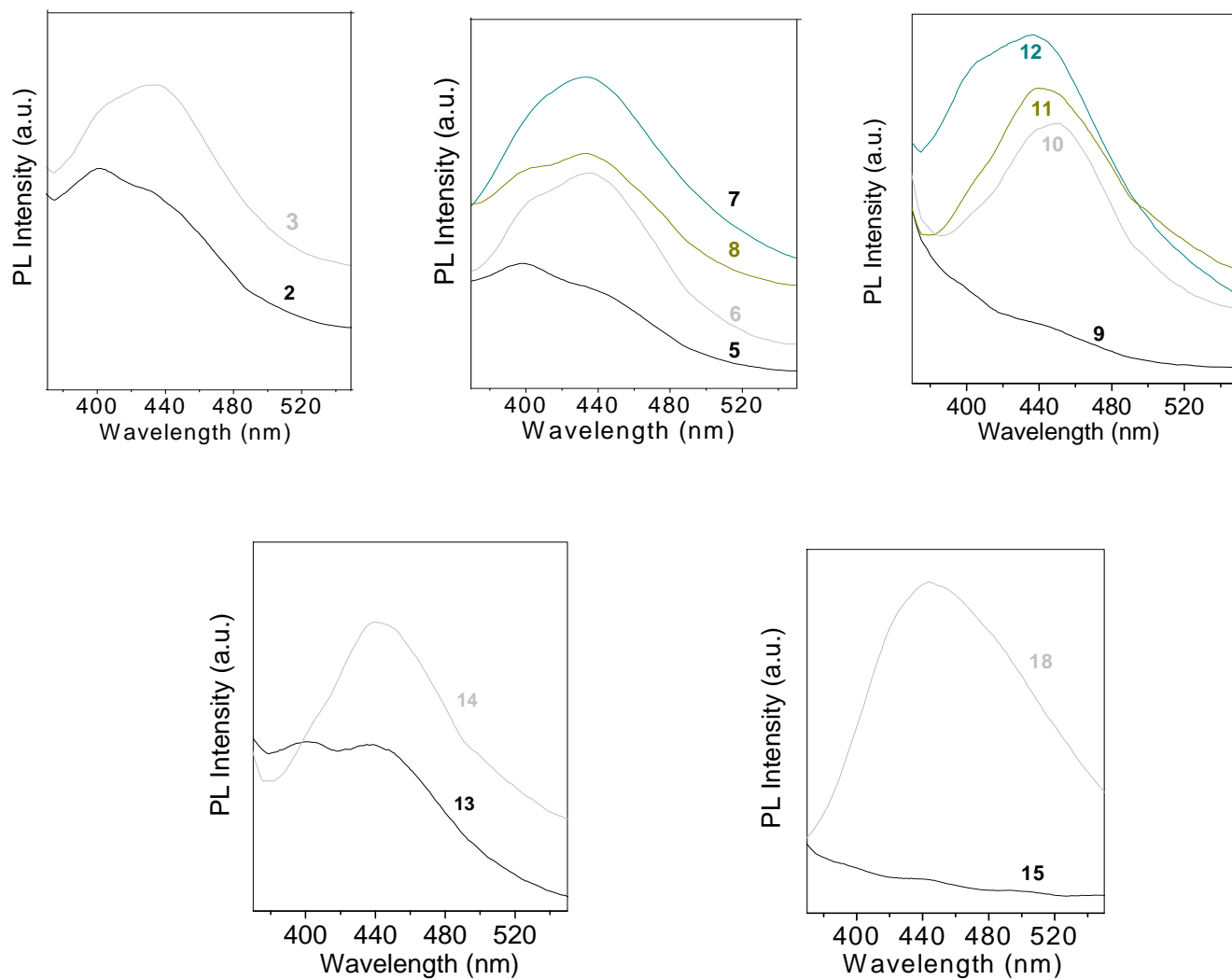


Figure 6. PL spectra of samples 2, 3, 5~14, 15 and 18.