

Electronic supplementary information for the manuscript

“Material structure – composite morphology-photovoltaic performance relationship for organic bulk heterojunction solar cells”

Pavel A. Troshin,* Olga A. Mukhacheva, Andrey E. Goryachev, Nadezhda N.
Dremova, Dmitry Voylov, Christoph Ulbricht, Niyazi Serdar Sariciftci,
Daniel A. M. Egbe* and Vladimir F. Razumov

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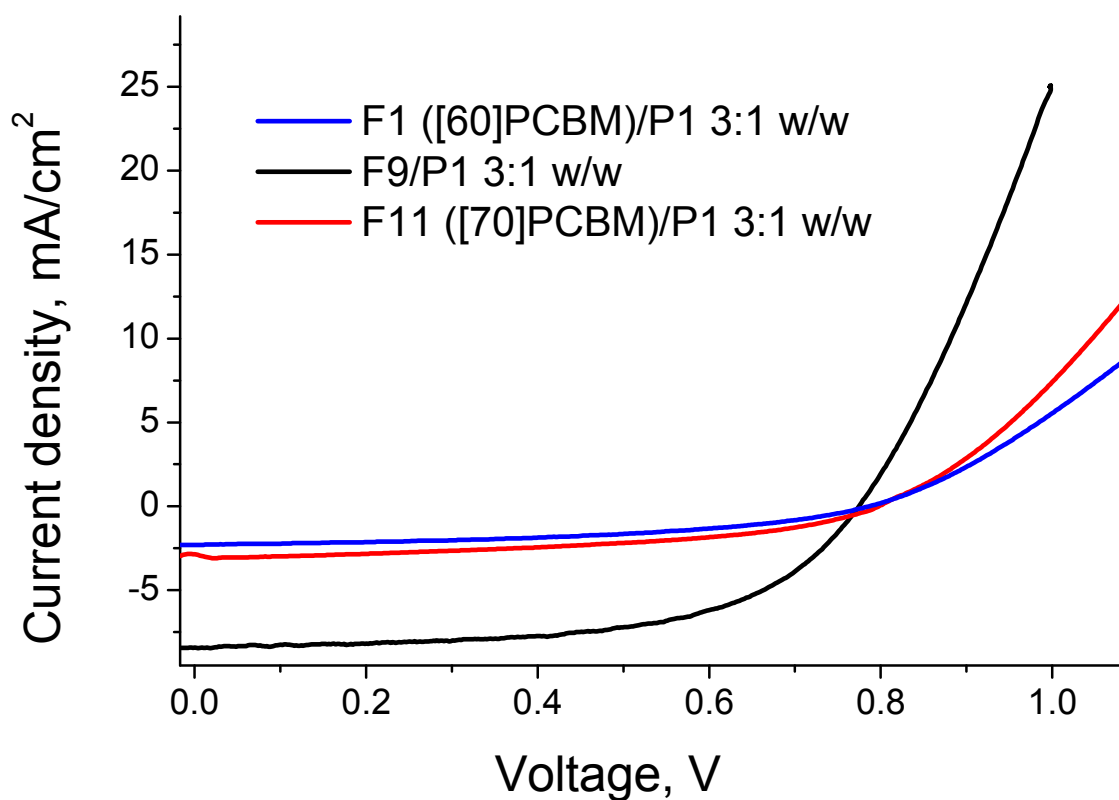


Figure S1. I-V curves of the devices based on the composites **P1/F1**, **P1/F11** and **P1/F9** (100 mW/cm², AM1.5 irradiation simulated with KHS Steuernagel solar simulator)

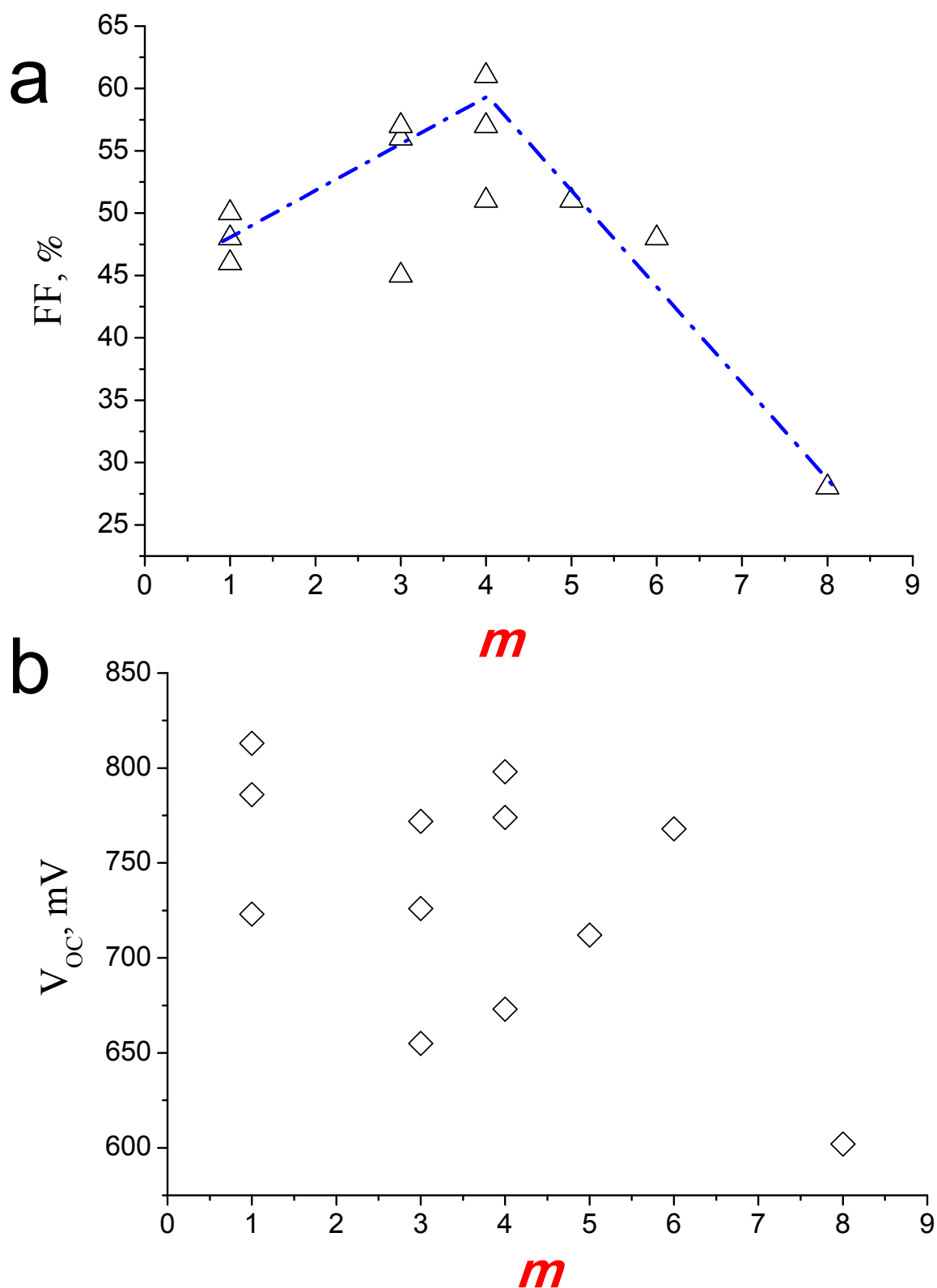


Figure S2. Fill factor (a) and open circuit voltage (b) of organic solar cells as functions of the structural descriptor *m*. The blue lines are provided as guides for the eye.

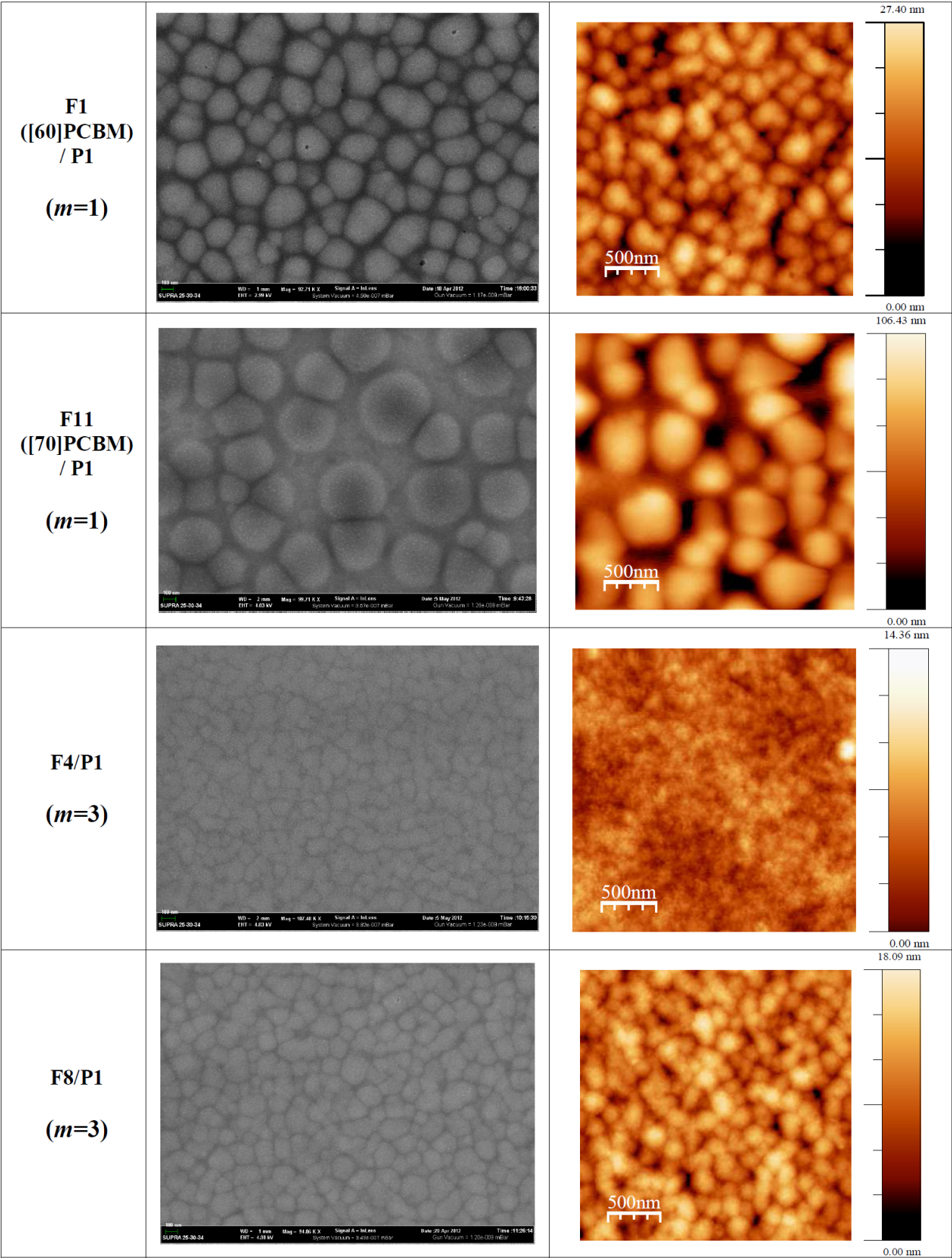


Figure S3. AFM and SEM images for thin films of some fullerene derivative/**P1** composites

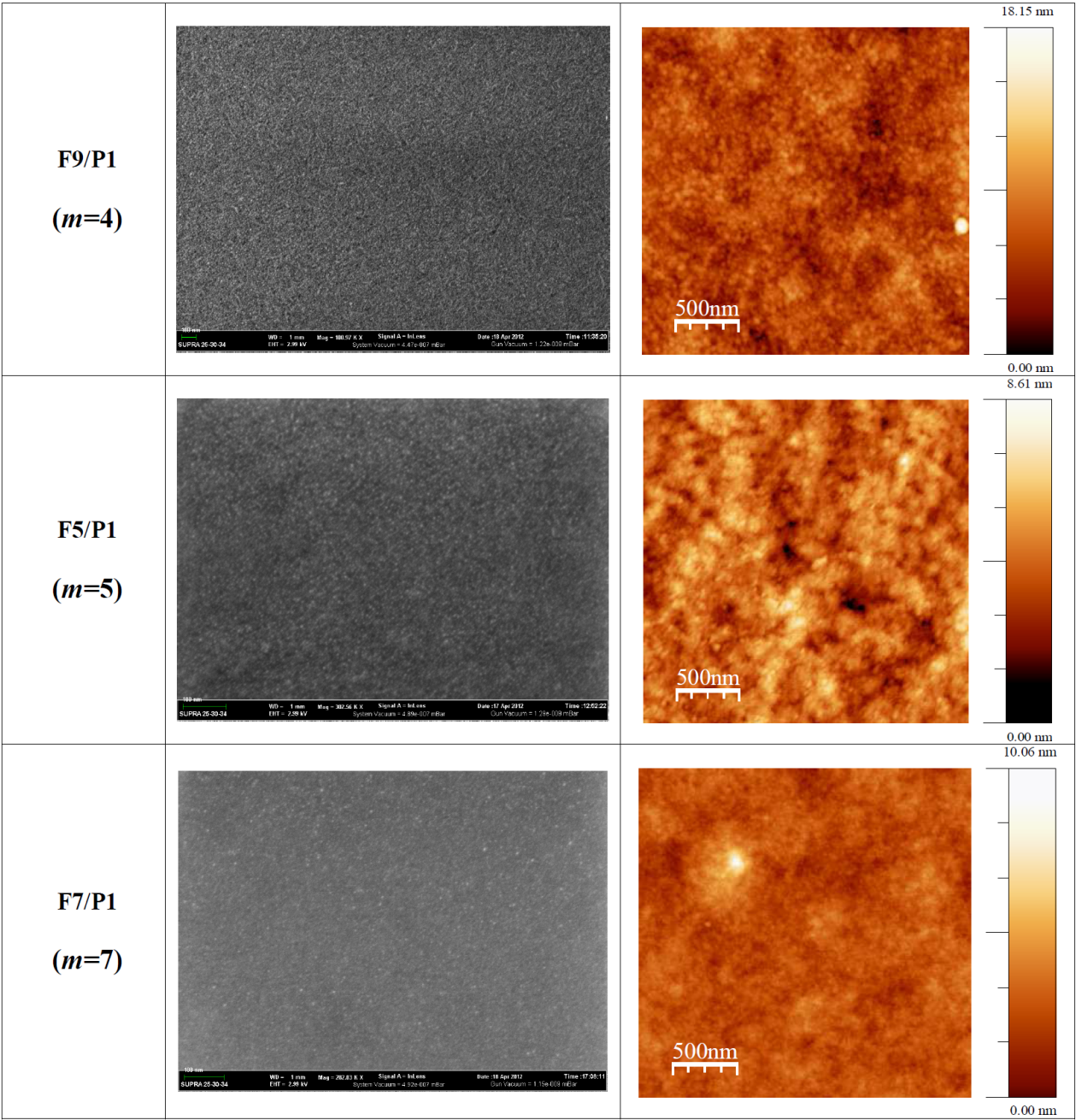


Figure S4. AFM and SEM images for thin films of some fullerene derivative/**P1** composites

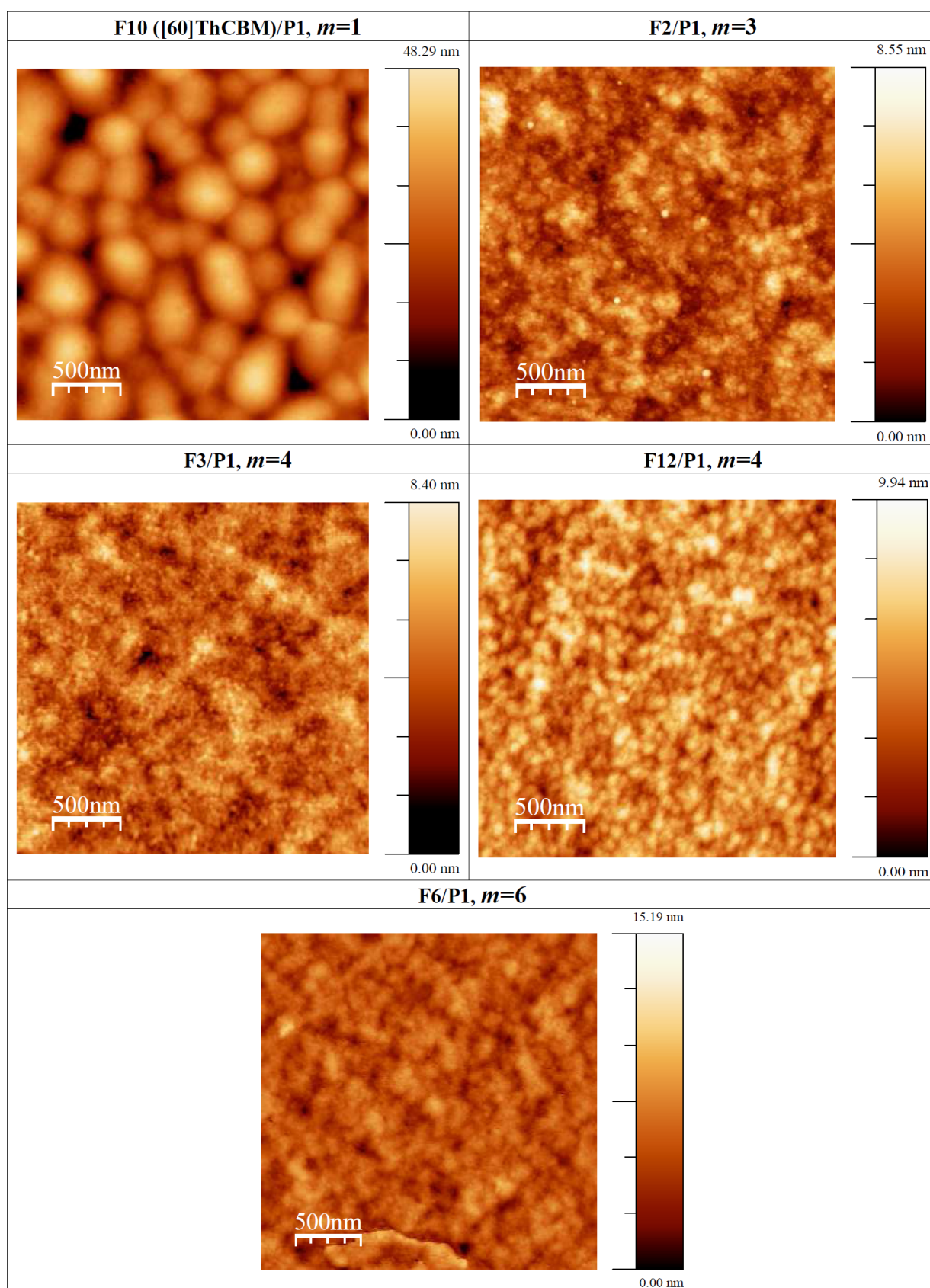


Figure S5. AFM images for thin films of the fullerene derivative/P1 composites (not shown in Figs. S3-S4)