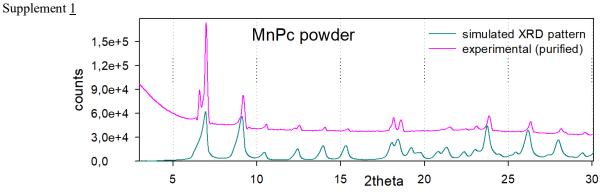
Supplementary materials

Stability of manganese(II) phthalocyanine films in ambient air

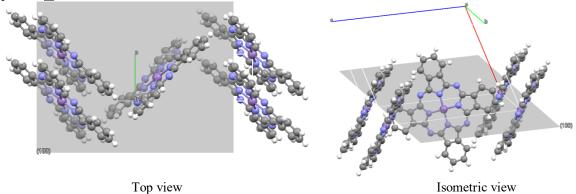
P.A. Yunin, Y.I. Sachkov, V.V. Travkin, G.L. Pakhomov

DOI: 10.6060/mhc224426y



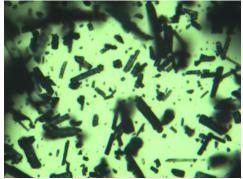
Comparison of the experimental XRD spectrum (purified PcMn powder in Fig. 2) and the spectrum calculated using the CIF file CCDC#1212698 [18].

Supplement 2

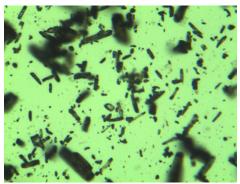


Views of the packing of molecules in a β -PcMn film textured by the (100) plane oriented parallel to the silicon substrate (marked in gray)

Supplement 3



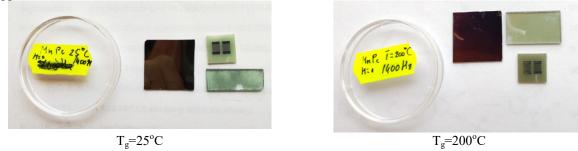
As-received (raw, unpurified)



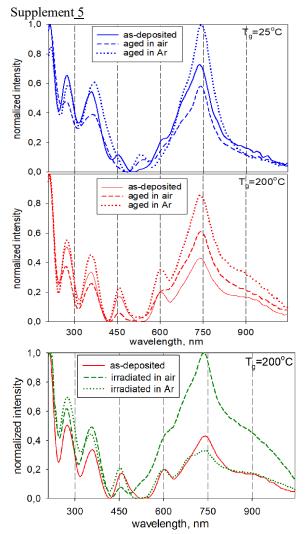
Recrystallized (purified)

Photographs of MnPc powder in an optical microscope (200× magnification)

Supplement 4

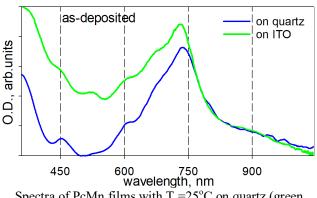


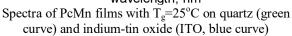
Photographs of thin-film PcMn samples on various substrates used in this work after one month storage in air.

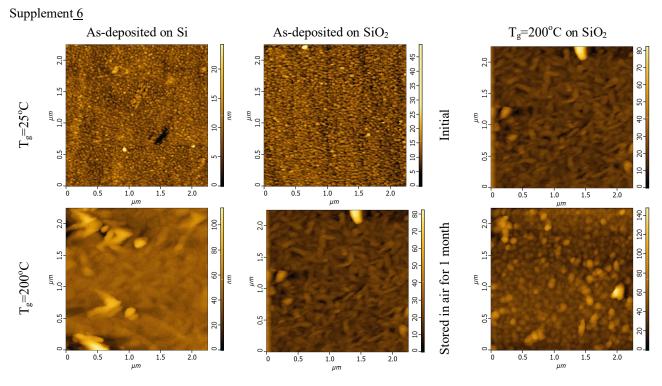


Spectra of the β -PcMn film in air and Ar before and after one-sun illumination for 13 h (a Zolix SS150 solar simulator with AM1.5G filter)

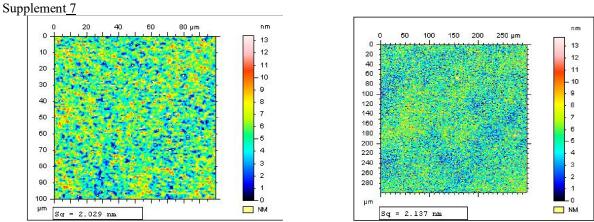
← Redrawn from Fig. 4: Comparison of spectra of PcMn films on cold and hot substrates.



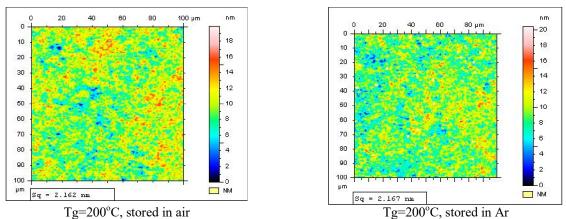




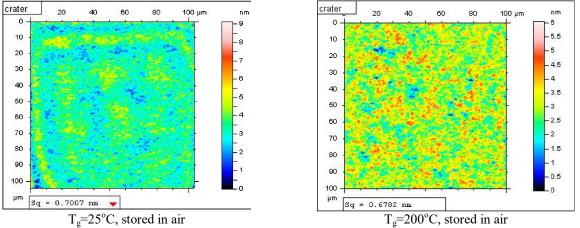
AFM images of the surface of PcMn films deposited on silicon (left column) and quartz substrates at 25° and 200°C, before and after 1 month storage in air, *cf.* Fig. 6.



WLI images of the surface of the low-temperature PcMn film after 1 month storage in air, with different magnification. Sq = root mean square roughness

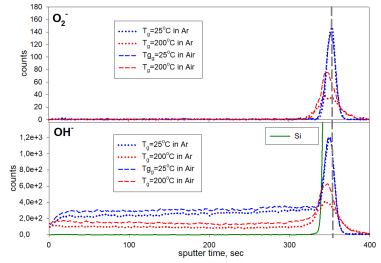


WLI images of the surface of the high-temperature PcMn film after 1 month storage



WLI images of the bottom of crater remaining after SIMS depth profiling down to silicon substrate





SIMS profiles for negative secondary ions O_2^- and OH^- , *cf.* Fig. 5.