

Electronic Supporting Information

The Effect of Surface Passivation on the Structure of Sulphur-Rich PbS Colloidal Quantum Dots for Photovoltaic Application

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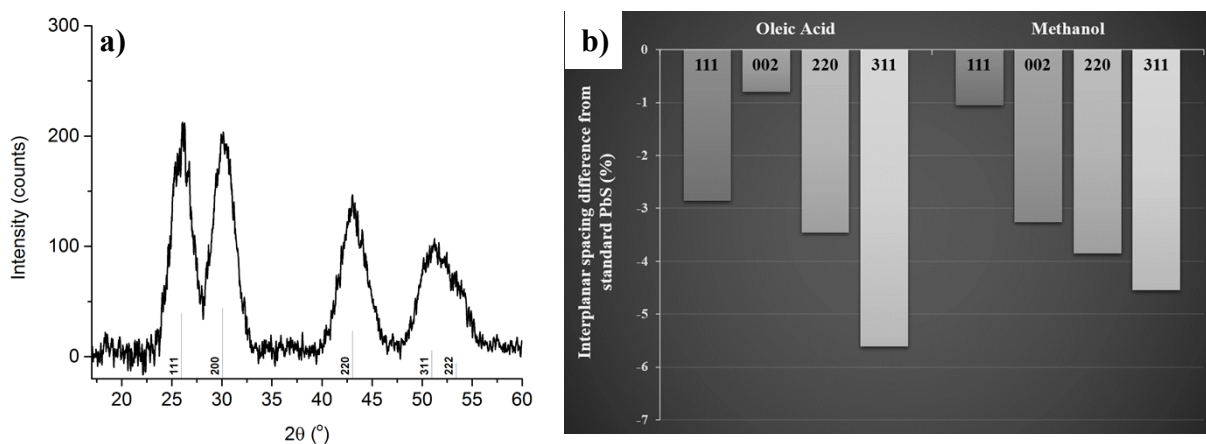


Fig. S1: a) XRD spectrum of PbS CQDs before methanol treatment. Reference lines are taken from JCPDS # 05-0592. b) Column histogram showing the standard deviation between the experimental interplanar spacing from TEM and the ones from JCPDS # 05-0592.

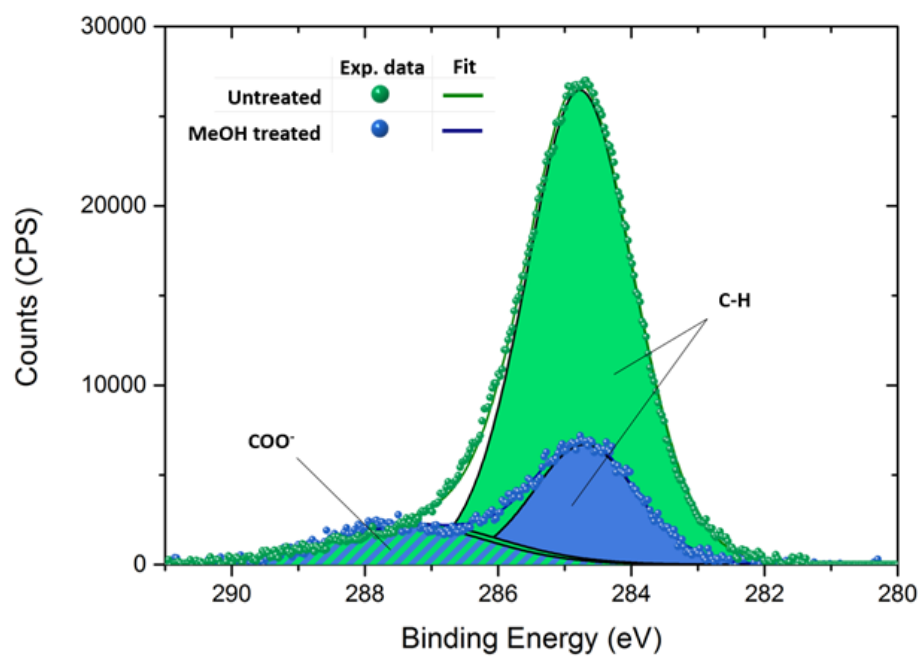


Fig. S2: High resolution XPS of the C 1s for the untreated and methanol treated samples.

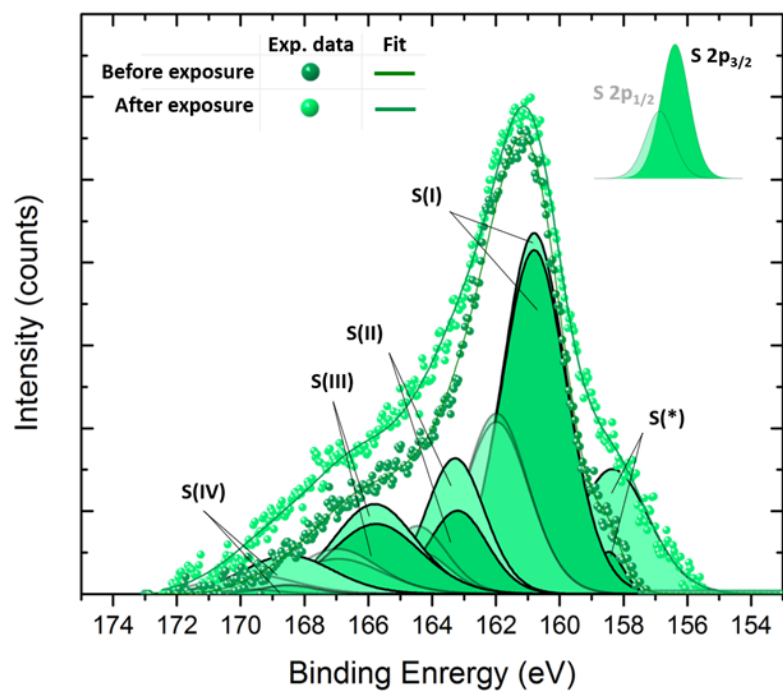


Fig. S3: High resolution XPS of the S 2p of the untreated sample before and after atmospheric exposure for 5 days.

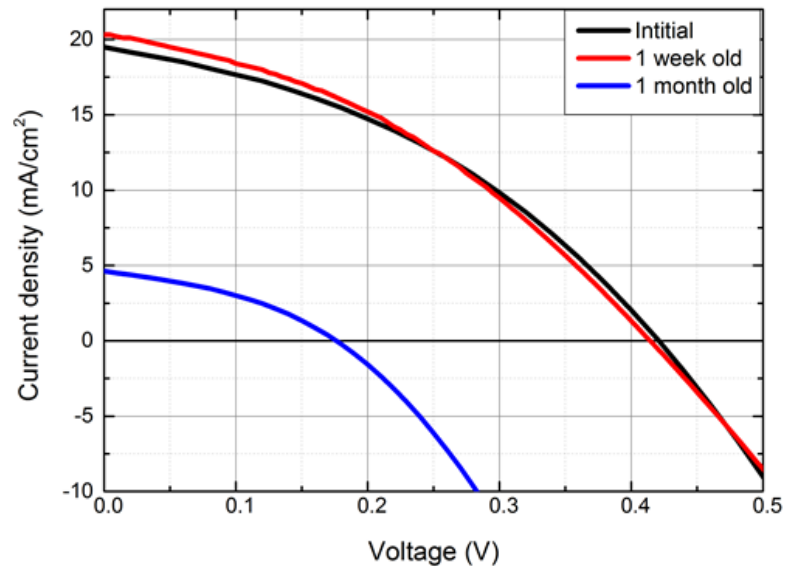


Fig. S4: Comparison between the solar cell's performance after 1 week and after 1 month.