



钙钛矿太阳能电池

报告人: 逢淑平, 副研究员 中国科学院青岛能源所

报告摘要:

Hybrid organic/inorganic perovskite materials with the formula ABX_3 have received a great deal of attention because of their good intrinsic properties for photovoltaic applications. $CH_3NH_3PbI_3$ (MAPbI₃) is easier to be processed while $NH_2CH=NH_2PbI_3$ (FAPbI₃) has more proper band gap and higher thermal stability. The current focus of our group is using “solvent engineering” method to enhance the crystallinity and uniformity of the perovskite films. Devices with high thermo-stability and no hysteresis are fabricated, with highest efficiency of 13.7%. We also present evidence for the reversible switching of the ferroelectric domains by poling with DC biases in high-quality β - $CH_3NH_3PbI_3$ perovskite thin films, which contribute toward the basic understanding of photovoltaic mechanisms in perovskite solar cells.

报告人简介:

Dr. Shuping Pang studied as a Ph.D. at Max Planck Institute for polymer research, under the direction of Prof. Klaus Müllen. He graduated at Sep, 2011 and worked at Qingdao Institute of Bioenergy and Bioprocess Technology since then. His research now focuses on perovskite solar cells.

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报告地点: 南校区双超楼 211 报告室

联系人: 阳军亮 研究员