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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 20 pages. Original publisher: Golden, Colo. : National Renewable Energy Laboratory, 2006 OCLC Number: (OCoLC)173666150 Subject: Photovoltaic cells -- Research. Excerpt: . . . liquid deposit smooth larger area solar cells and to improve the overall power efficiency of these inexpensive devices are now being developed under an NSF STTR Phase I grant. Lifetime Properties of Device Structures Lifetime behavior of all three types of devices (polymer blends, TiOx layers, and PCBM blends) was monitored for changes in their IV-curves and quantum efficiency upon exposure to solar radiation. The blended devices were observed to degrade the fastest (typically 30 days), with PCBM blends being the most unstable, while the TiOx layers were stable for the duration of the test (80 days). The rapid degradation of the blends appeared to be caused by UV-PEDOT PCBM: Thio Al induced damage to the PEDOT-PSS and PPV polymers that was mitigated by including TiOx in the device structure. The rapid degradation of the PCBM blend devices were also observed for devices kept in a dark dry nitrogen atmosphere. The significantly short shelf life (7 days...

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