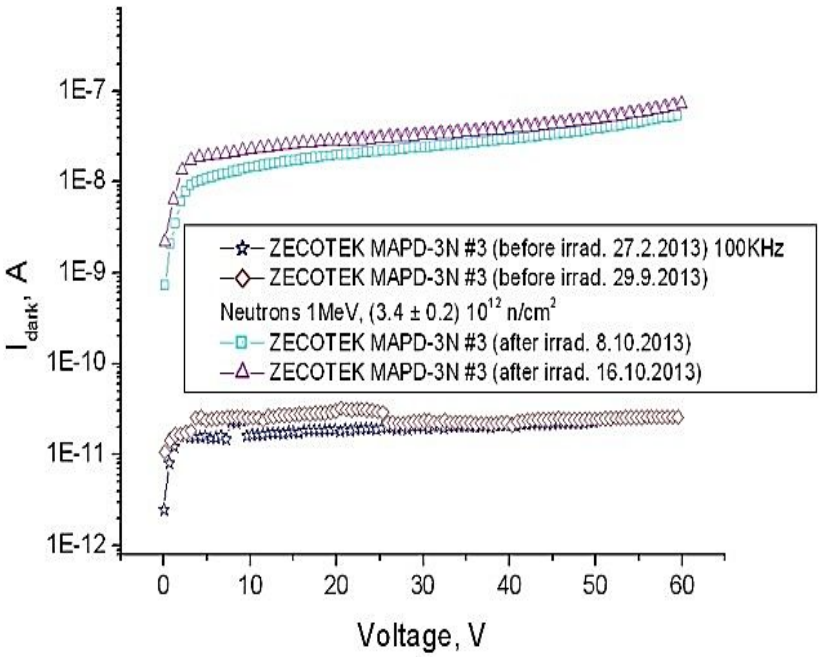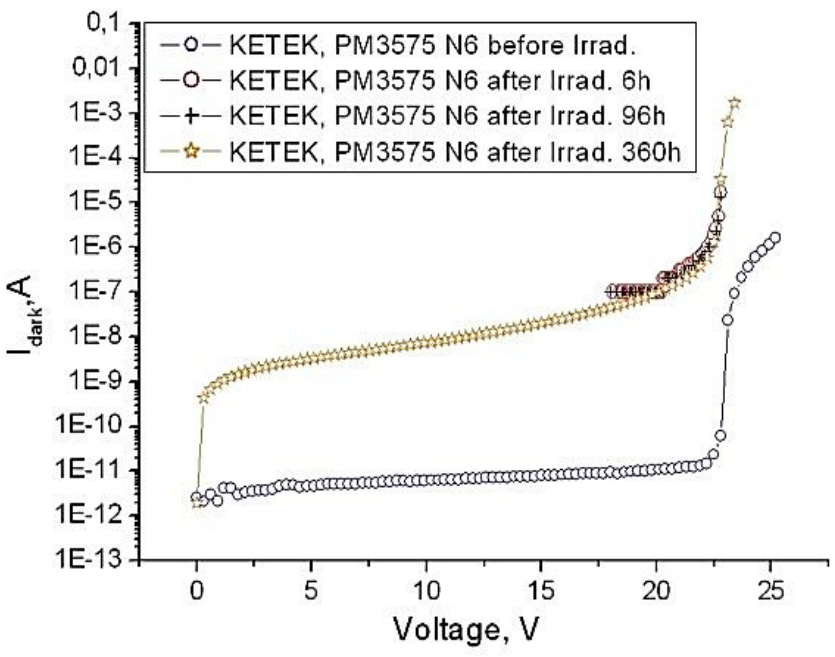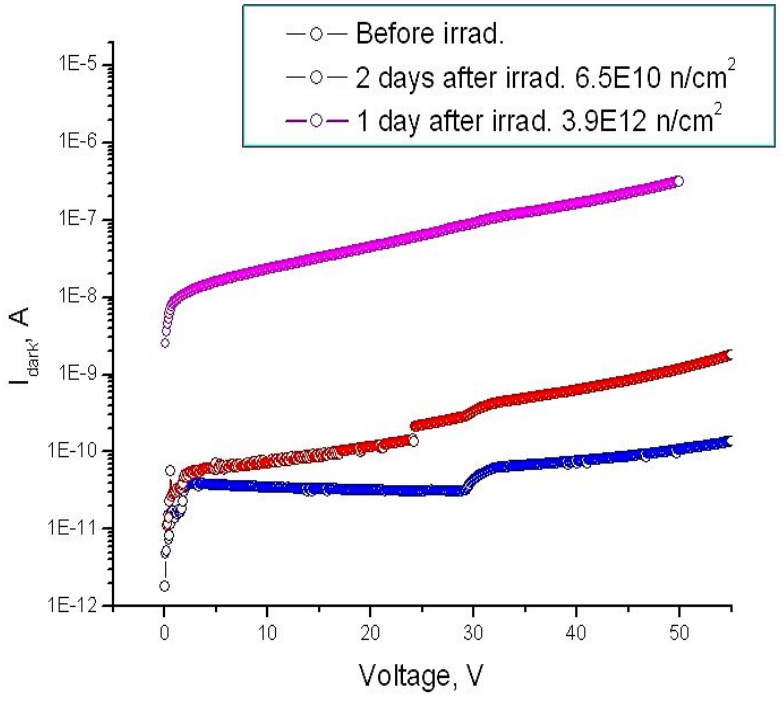# Характеристики (I-V) до и после облучения