

In this thesis, I study charge transport in halide perovskites. This is done using the characterization method, which here is the I-V characteristics. It studies the effect of current and voltage on the prepared sample, also at different temperatures. A significant sensitivity of the material to the measurement history was found. Derived evaluations of this measurement technique further provide possibilities for the detection of hysteresis behavior as well as the evaluation of measurements over time to determine the temporal stability of carrier collection. This also proved the phenomenon of electromigration of defects. Furthermore, transport parameters were calculated from the time measurements, which point to their non-monotonic development in increasing temperatures. A theoretical model explaining such behavior was proposed as a possibility for further research on perovskites and development of this topic.