

**Friedrich-Alexander-Universität Erlangen-Nürnberg** 

## Beginner's guide to visual analysis of perovskite and organic solar cell current density-voltage characteristics

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## Instructions

The flowchart in this poster helps you to identify the most probably limiting process in a solar cell. It is mainly based on the outcome of lightintensity-dependent current-density voltage (JV) measurements.

Navigate through the flowchart by answering the "yes" or "no" questions in the grey diamond shapes ( 🚫 ). Sometimes, additional measurements are required, which are represented by the blue square-shaped nodes ( ) that have to be performed before continuing. Finally, the green rounded rectangles ( ) represent the endpoints which indicate the most dominant loss mechanism. The Roman numerals guide you to the respective simulated JVs so you can compare your measured result with the simulation.



----- 1 x 10<sup>1</sup>

---- 1 x 10<sup>17</sup>

-10

the GitHub repository with the code used for the simulations!



9.5 x 10<sup>-9</sup>

2.0 x 10<sup>-1</sup>







---- 500

-10



---- 0.4

---- 0.5

0.6

-10



- 0.4

-10

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