Project AutoPeroSol: Towards automatic data management and a common ontology for perovskite solar cell device data

Thursday 6 October 2022 09:25 (15 minutes)

A general photovoltaic device and materials data base compliant with FAIR principles is expected to greatly benefit research and development of solar cells. Because data are currently heterogeneous in different labs working on a variety of different materials and cell concepts, database development should be accompanied by ontology development. Based on a recently published literature database for perovskite solar cells, we have started an ontology for these devices and materials which could be extended to further photovoltaic applications. In order to facilitate data management at the lab scale and to allow easy upload of data and metadata to the database, electronic lab notebooks customized for perovskite solar research are developed in cooperation with the NFDI-FAIRmat project. Current status and challenges will be discussed.

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Session Classification: Session