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High-throughput processing for diffraction data

Synchrotron X-ray diffraction (XRD) experiments are a versatile tool in understanding material properties and processes, for example light-weight materials or additive manufacturing and for generating data to create digital twin models.
The analysis of XRD data is often still the domain of experts because software tools were designed for flexibility with numerous parameters which makes them difficult to use for non-experts. Our new software pydidas is a framework designed to open up the user-base of XRD experiments by delivering a user-friendly processing tool capable of handling large datasets of potentially tens of thousands of diffraction images. Processing workflows are modular and based on plugins which can incorporate any computational methodology.

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Keywords

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Autor: Dr. STORM, Malte

Co-Autoren: Dr. KRYWKA, Christina; Dr. STARON, Peter