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Herbie: ELN and research database from Hereon

Herbie is an Electronic Lab Notebook (ELN) developed at Helmholtz-Zentrum Hereon. Highly structured, yet flexible protocols for parameters and results of individual manufacturing and characterization processes are described with machine-readable ontologies in RDF using OWL and SHACL. By interlinking the protocols and putting them into context with involved staff, samples, equipment, projects, free-text comments, and the actual data files, Herbie enables scientists and technicians to conveniently find all data they need in one place, thus facilitating efficient data evaluation and analysis. Originating from the field of metallic biomaterials, Herbie supports cross-discipline research including but not limited to materials science, engineering, biology, and medicine. Through active participation in various standardization and collaboration initiatives, Herbie can easily connect to other software systems and ELNs.

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Keywords

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