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**Pair-Distribution Function analysis to
elucidate the role of the local
structure on the diffusion
mechanisms and conductivity**

In this presentation we are going to give first a concise description of the Pair Distribution Function (PDF) technique and then an overview about the successful application of total scattering methods to the investigation of crystalline materials for clean energy applications. This approach already showed its power in order to provide information at the atomic scale level that are essential to give new insights, for example, about the mechanisms involved in the carrier motion, study the defects structure and find correlations between different crystal structure of a material.

Der Vortrag findet um **16:15 Uhr** im Gebäude der Materialwissenschaften,
Lichtwiese, Alarich-Weiss-Str. 2, **Raum 228** statt