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Small Angle Scattering: Leaving Atoms Behind and Going Big

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Many processes in energy materials do not only depend on the microscopic arrangement of atoms on the atomic scale, but are controlled by the gross characteristics and morphology of matter on the nano and microscale. Small-angle X-ray/neutron scattering (SAXS/SANS) allows to access these features giving insights into the size, shape, and arrangement of objects of few nanometers to several hundreds of nanometers. This lecture will introduce key concepts of small-angle scattering and give some examples on how SAXS and SANS can be used to study battery materials.

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