

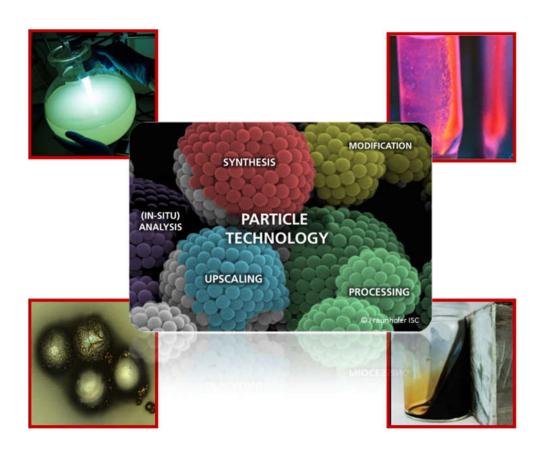
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Particle technology at Fraunhofer ISC and examples of current research in the field of magnetic particles

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In the first part of the talk, the merits of tailored nanoparticles synthesised bottom-up in dispersions will be presented, followed by giving a flavour on the challenges to upscale and process small (nano)particle suspensions.

In the second part of the talk, focus will be put on magnetic nanoparticles and composite particles made thereof. It will be shown how magnetic properties can be tailored from different synthesis approaches and how further modification and processing of magnetic nanoparticle-building blocks to more complex structures yields new composite particles with interesting properties and application potential.