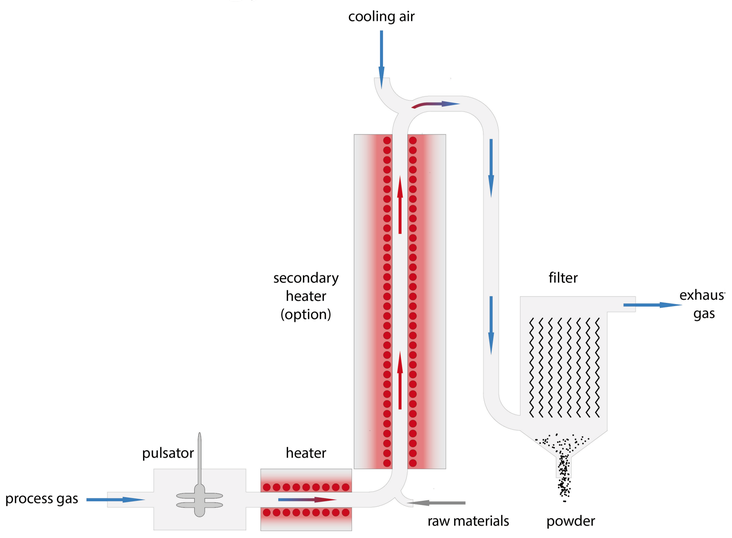
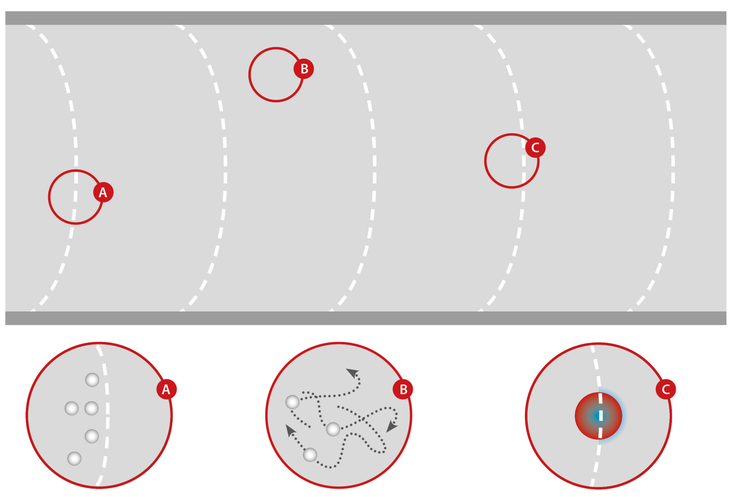
THE Glatt POW(D)ER SYNTHESIS

From synthesis to functionalization of powdery materials

Our Technology



Pulsation makes the difference!



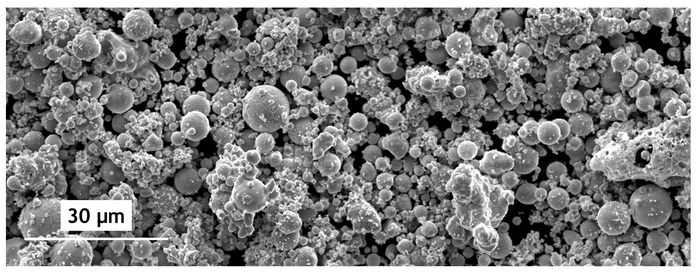
Impact of pulse will create superfine droplets by secondary atomization

Pulsation creates a highly turbulent flow, homogenizing temperature and velocity in the gas stream and constantly changes the position of the particles to equalize the resident times

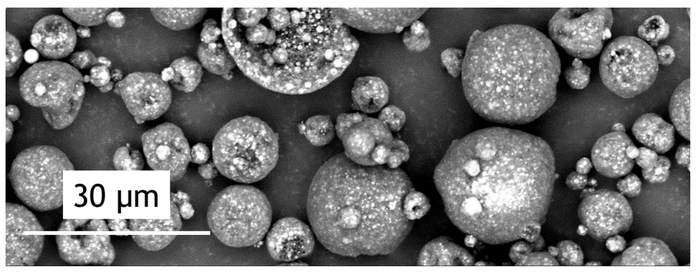
Impact of pulse and perpetual relative velocity between particle and gas stream will continuously break up boundary layers, guaranteeing high heat and mass transfer

Advantages

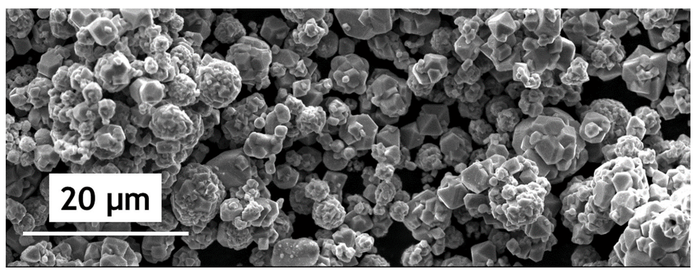
- Adjustable particle size and narrow size-distribution from 50 nm - 50 µm
- Drying, coating and calcination in one step starting from solutions, suspensions or solids
- Superior product properties by innovative pulsating gas technology up to 1300 °C
- Flexible process variations like coating, synthesis, agglomeration and encapsulation
- Unique structures and chemical compositions like doped and undoped complex oxides, mixed oxides like spinel or mullite, doped materials
- Selectable reaction atmosphere: inert, oxidizing, reducing
- Innovative electrical heating; heat recovery
- Feasibility trials; process development; batch or continuous plants; contract manufacturing; scale-up



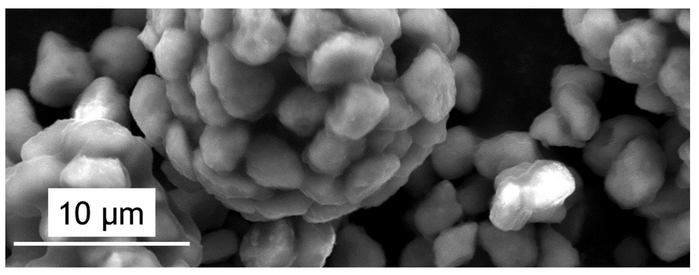
Catalyst for eletrochemical applications



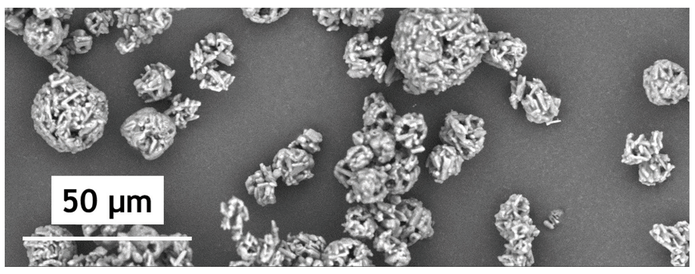
Cathode material



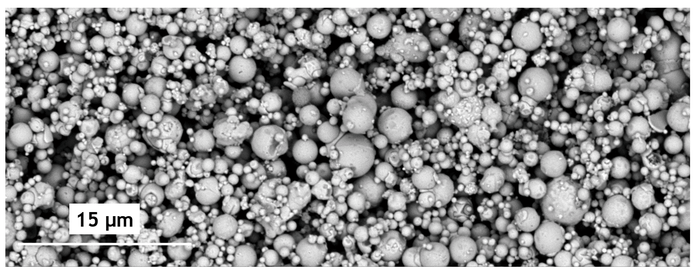
Spray dried and coated Si-C-composite



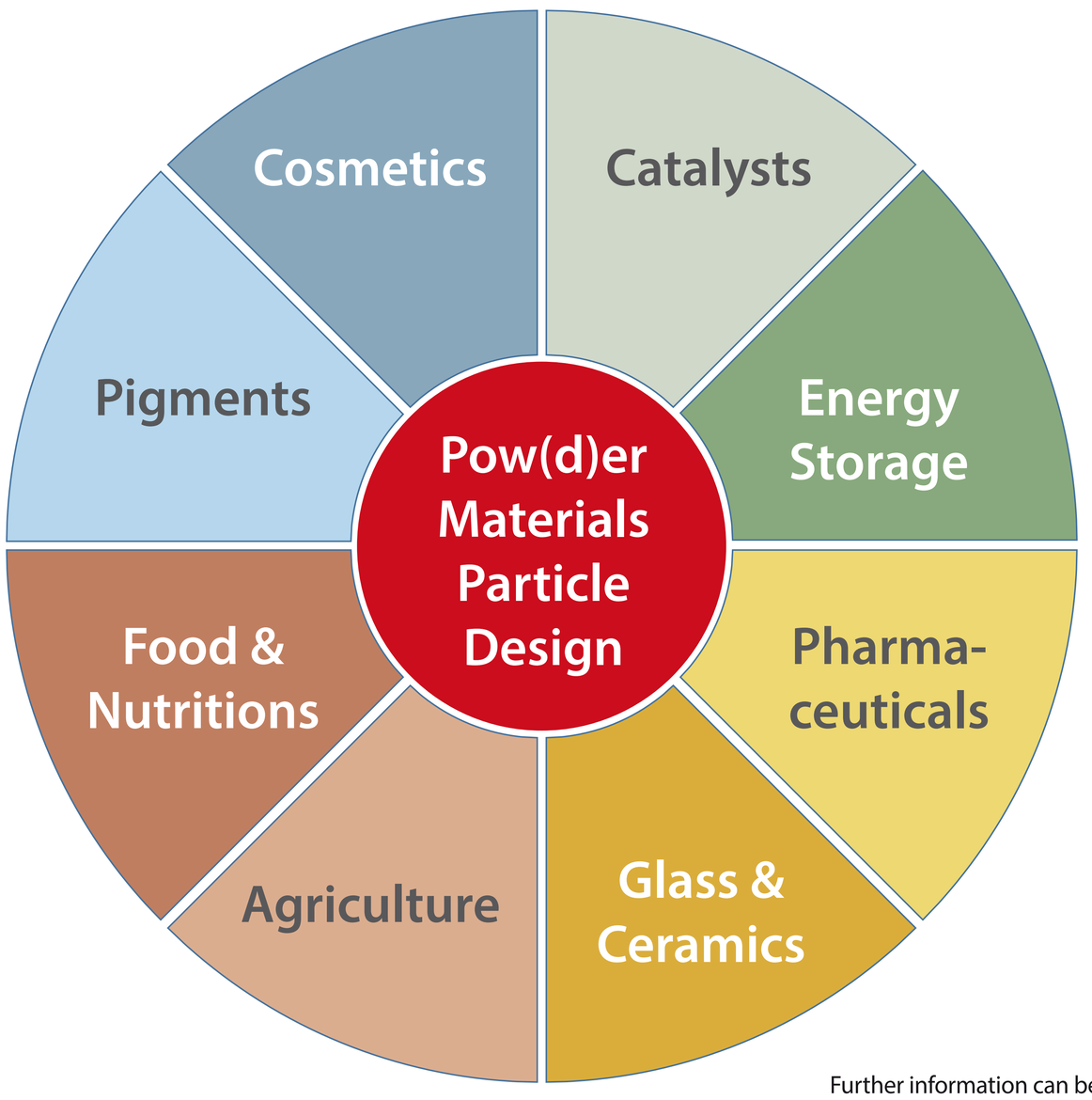
Agglomerated/coated Si



Coated fungizide



Ag-Ru bimetallic compound



Further information can be found on our website
powdersynthesis.glatt.com