

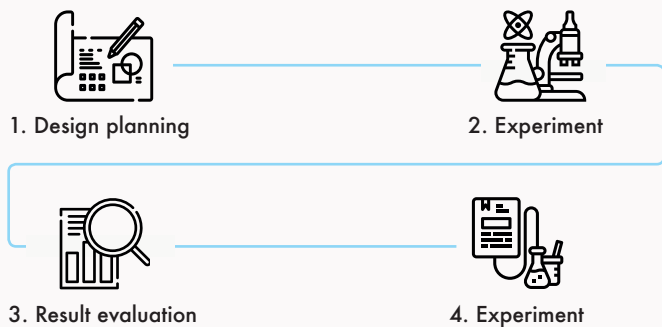


# SOLID-CHEM

Solid Solutions for the Solid State

## Dynamical screening

Combination of conventional screening and individual high throughput benches with all advantages.



Step by step, full control of the experiment, understanding the experiments and results.

- **Individual and flexible, rational based experiments**
- **Limited number of (the right) experiments are required**
- **Thermodynamic and kinetic data can be explored at once**
- **Better understanding of the system behavior (experimentalist)**
- **Large number of experiments**
- **Automation of time consuming experiments**
- **Processes can be performed simultaneously => saves time**
- **Evaluation of data based on automatic software**

## Characterization methods for crystalline phases

### Diffraction:

SCXRD, PXRD, T-PXRD

### Thermochemistry:

TGA-FTIR, TG-MS, DSC, HSM + DTA

### OTHERS:

KF, DVS, UV-Vis, PSD (particle size determination), <sup>1</sup>H, <sup>13</sup>C NMR, CP/MAS NMR

### Vibrational Spectroscopy:

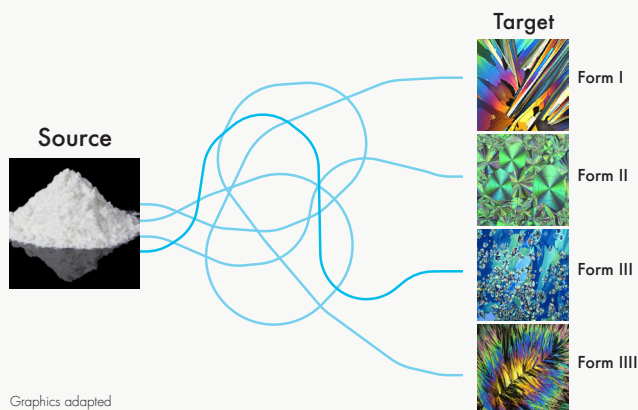
NIR, FTIR, Raman (micro-spectroscopy), Terahertz-spectroscopy

### Microscopy:

OMI (optical light microscopy), SEM, TEM

## Screening procedures

Finding the right way to discover new polymorphs, salts, co-crystals and solid-solutions



Graphics adapted  
Original Version by Prof. Dr. U. Griesse

## Who we are



Prof. Dr. R. Boese  
1. Managing Director



Dr. C. Schauerte  
2. Managing Director

We support our customers with expert opinions based on experimental, scientific, carefully retrieved data and on precisely documented experiments. Results and reports from our investigations can be potentially used for litigations, and therefore, scientific integrity is our absolute priority. When investigating the solid-state chemistry of products and modifications thereof, we offer consultative and scientific support for that encompasses the assessment and establishment of intellectual property rights. We are particularly experienced within solid-state chemistry, but do not restrict our work to this area.

## Get in touch

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**It's worth taking a closer look - Screening Procedures**