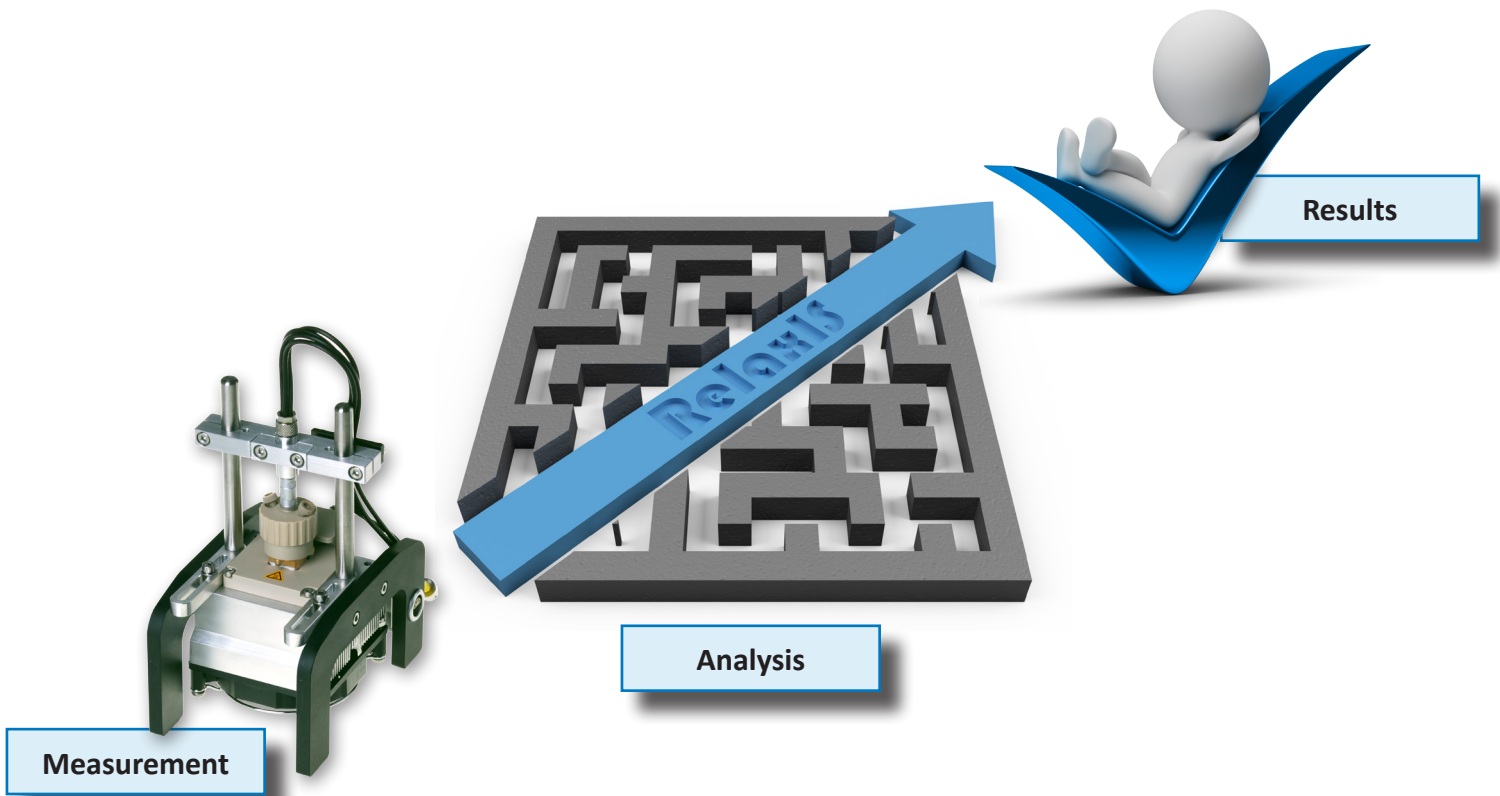# RelaxIS3
Impedance Spectrum Analysis

High quality measurements need high quality evaluation tools.

RelaxIS - Impedance Spectrum Analysis eases impedance data analysis.

Focus your attention on the results and not on how to obtain them.

Results

Analysis

Measurement

RelaxIS - Impedance Spectrum Analysis is a fast and powerful software solution for analyzing electrochemical impedance spectra.

It allows for quick and comfortable evaluation of large amounts of spectra by combining powerful fitting algorithms with a modern user interface. **RelaxIS** supports a broad variety of file formats from different hardware manufacturers as well as arbitrary text formats. Files can be loaded by simple drag & drop operations. It is possible to perform automatic fitting of different standard spectra as well as using arbitrary, user-defined equivalent circuits.
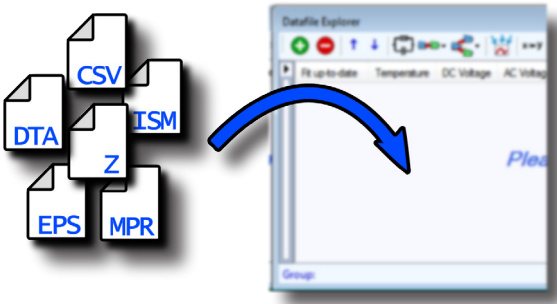
Multiple advanced features like the live preview of fit results, fitting of temperature dependent data to Arrhenius and VFT functions, a circuit simulator and powerful export capabilities make **RelaxIS** a valuable asset for everyone using impedance spectroscopy.
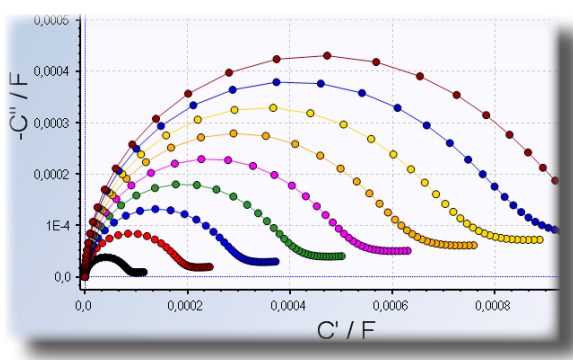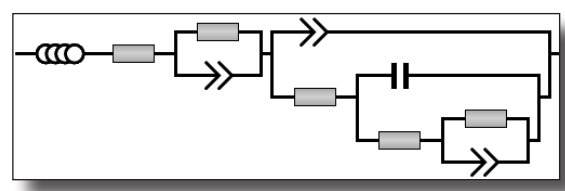
rhd instruments
flexible cell solutions

- Import more than ten^{SDK} different data file formats or arbitrary text files.
- Simple drag & drop operation.
- Read and use additional information from data files like temperature or DC bias.
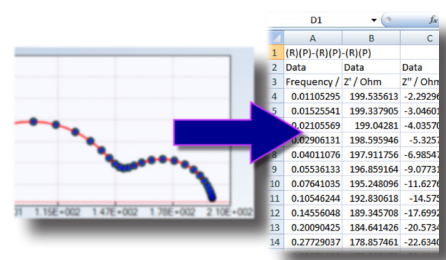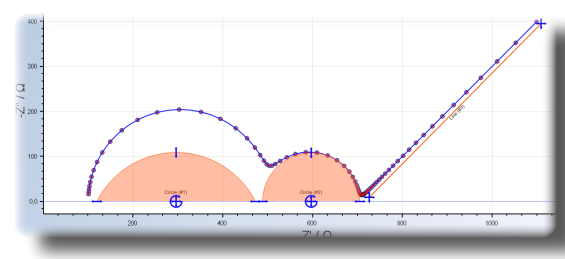- Easily duplicate or merge data files as needed.

- Visualize your spectra in multiple different representations like Nyquist or Bode plots.^{SDK}
- Display and fit data in the impedance, complex capacitance or admittance plane.^{SDK}
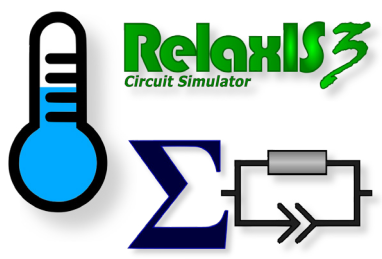- Create an overlay of multiple spectra for easy comparison.

- Use a large library of more than 70 pre-made, common equivalent circuits.
- Quickly create your own arbitrary circuits.
- Create new circuit elements^{SDK} to solve your tasks.

- Use a combination of some of the most powerful fitting algorithms and data weighting options.^{SDK}
- Use the Test Fit option to try your chosen options without any risks.
- Draw impedance circles and lines directly into your data.
- Save precious time by using the extensive batch fitting possibilities.

- Create further evaluations^{SDK} of fit parameters as function of secondary variables.
- Export any type of data into text formats for use in third-party programs.
- Export graphs or equivalent circuits directly as images for use in presentations.
- Use RelaxIS as a central data server with RelaxIS Remote and RelaxIS WCF Link.^{SDK}

- Simulate arbitrary equivalent circuits with free options in the RelaxIS Circuit Simulator.
- Evaluate temperature dependent data by integrated Arrhenius and VFT fitting routines.^{SDK}
- Determine the quality of your data by linear Kramers-Kronig testing and residual analysis.
- Extend RelaxIS with your own plugins using the RelaxIS SDK.

^{SDK} Extendable with the RelaxIS SDK