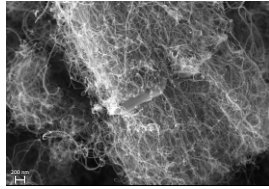
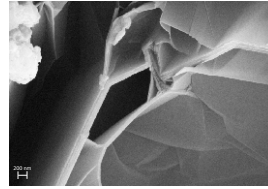


Nanocomposites and blends based on thermoplastics and nanoscale carbon allotropes

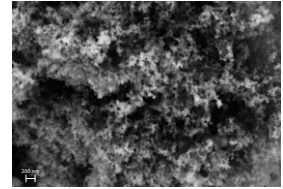
Allotropes of Carbon



Carbon nanotubes

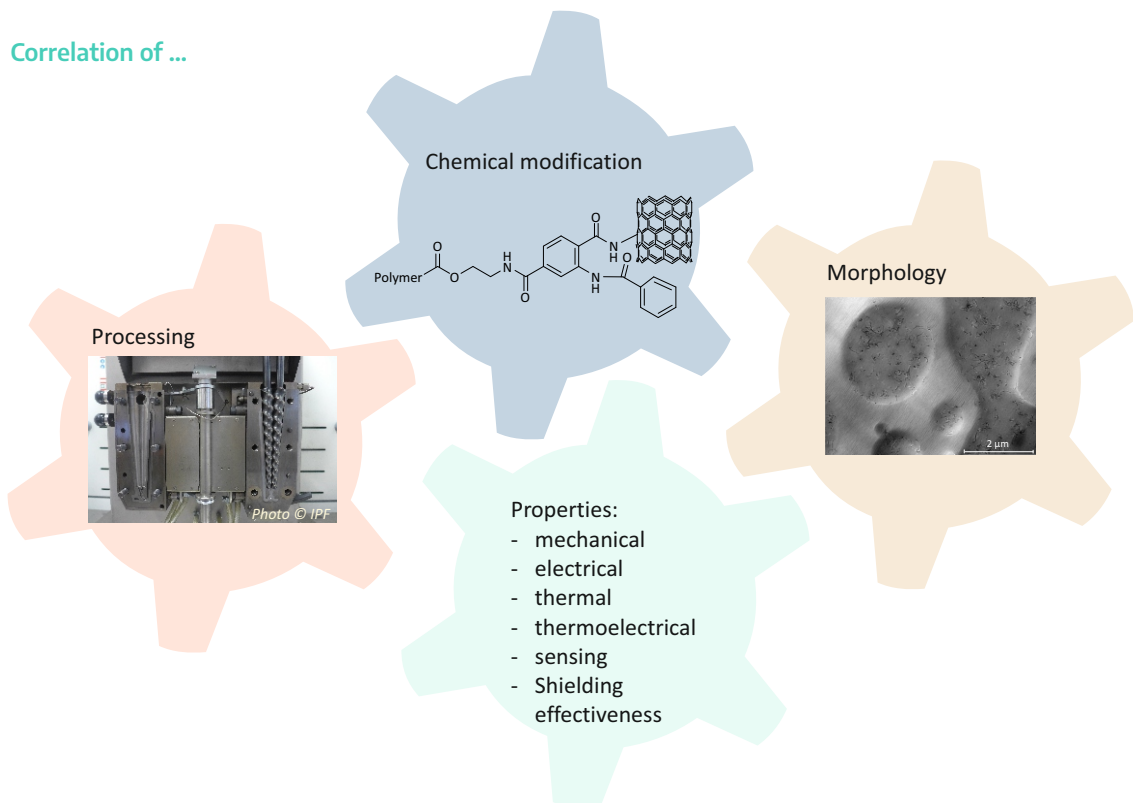


Graphite derivatives

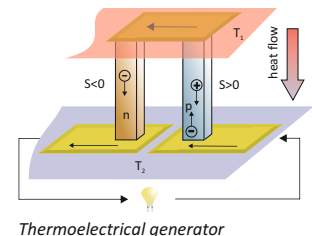
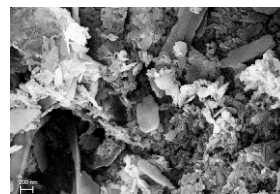
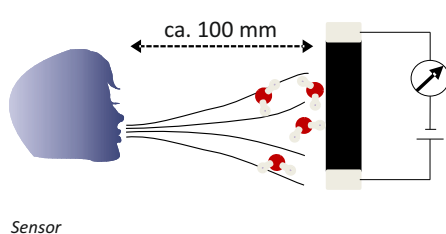


Carbon black

Correlation of ...



Examples of functional applications of electrically conductive composites



Heat exchanger



Bipolar plate

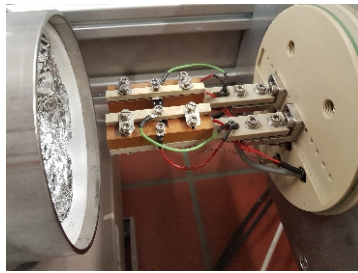
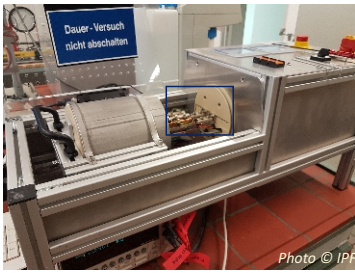


Electrostatic paintability



Electromagnetic shielding

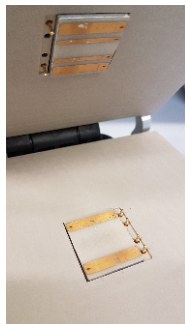
Special techniques



Thermoelectric measuring device (self-made IPF) for the measurement of the temperature-dependent Seebeck coefficients, the electrical conductivity, the power factors and the figure of merit.



Powder conductivity measuring device (self-made IPF) for the measurement of the pressure-dependent electrical conductivity of powders and pastes (pressure up to max. 30 MPa)



Adjustable temperature measuring device (self-made IPF) for measurement of the directional electrical conductivity



GNOMIX PVT apparatus (GNOMIX Inc, USA) to determine changes in the specific volume of solids and liquids depending on pressure (0.1 MPa to 200 MPa), temperature (RT to 400 °C) and time ($t \rightarrow \infty$)

- Phase equations of states
- Phase transitions
- Chemical changes

Contact

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