INM
Leibniz Institute for New Materials

Project idea/ Field of expertise:

Recycling; material separation

Particle-based materials; flexible printed electronics

Organisation Name:

Leibniz Institute for New Materials

Addressed topic(s):

Recycling, circular economy, batteries, fuel cells, sensors, raw materials, conductive networks, characterization methods

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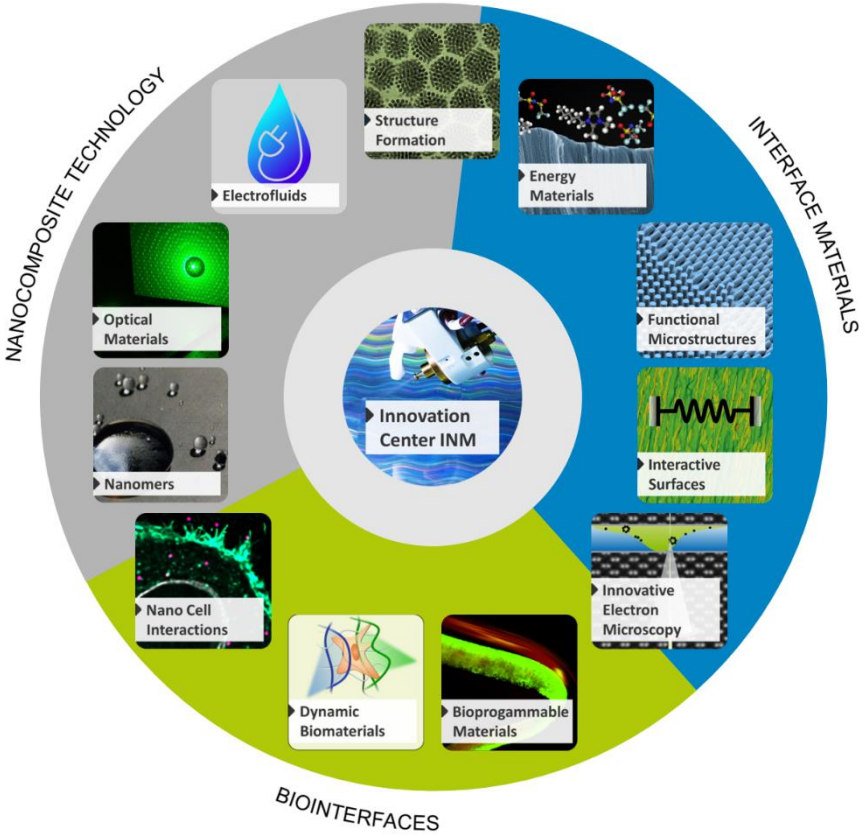
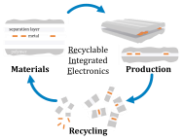


I-Seed: Towards new frontiers for distributed environmental monitoring based on an eco-system of plant seed-like soft robots

→ *FET Proactive Env. Intelligence of the **Horizon Europe***



ReIn-E: Recyclable integrated electronics

→ *EU **Co**llective **R**esearching **Net**work **(CORNET)***

Interreg Grande Région | Großregion IMPROVE-STEM

Improve-Stem: New materials for the propagation of stem cells

→ ***Interreg Europe** co-funded by the European Union*

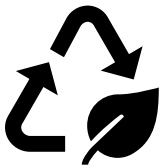
Electrofluid

Electrofluid: Conductive suspension flows for soft electronics

→ ***European Research Council Starting Grant***

European Union · European Research Council · Federal Ministry of Economics and Technology · Federal Ministry of Education and Research · SAARLAND · Leibniz Association · Else Kröner Fresenius Stiftung · VolkswagenStiftung · DFG Deutsche Forschungsgemeinschaft

Project interests:



- Recycling functional materials
  - Separation on a material level
  - Recyclability-by-design

- Stretchable printed electronics
  - Development of new, printable materials with liquid precursors
  - Sensors
  - Semiconductors
  - Dielectrics
  - Conductors

- Sensor integration in materials e.g., via:
  - Screen printing
  - Ink jet printing
  - Gravure printing

- Bio-hybrid materials
  - Living-organic-inorganic hybrids
  - Particle-based materials processing

Why will we be successful?

- ✓ Regulatory Compliance
- ✓ Technology Transfer
- ✓ Interdisciplinary Experience

Contact details

Leibniz Institute for New Materials

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