



<https://polycond-2024.sciencesconf.org/>

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Topics:

- ✓ Recent advances in polycondensation polymers (photocatalysis, enzymatic catalysis, biocatalysis, assisted microwave polymerisation, polymerisation in ionic liquid solvents, in deep eutectic solvents, solid-state chemistry)
- ✓ Polymers from biosourced monomers (synthesis, properties)
- ✓ Polymers from direct arylation reaction (synthesis, properties)
- ✓ Multi-component polycondensation
- ✓ Functional polymers: synthesis, properties (ionic conducting properties, optoelectronic properties, gas permeation properties, electrochemical properties, electrochromic properties)
- ✓ High performance polymers: synthesis, properties
- ✓ Polymers of intrinsic microporosity: synthesis, properties
- ✓ Hybrid organic / inorganic materials
- ✓ Polymer processing: Extrusion, reactive extrusion, injection molding, 3D printing, electro-spray/spinning
- ✓ Polycondensation and artificial intelligence (machine learning)
- ✓ Thermosetting materials
- ✓ Recycling/depolymerisation of polycondensates
- ✓ Covalent Adaptable Networks



A wide range of application fields

Polymers for the development of new materials to answer current societal issues concerning :

- Renewable energy :**
Materials for batteries, fuel cells, redox-flow batteries, supercapacitors
- Optoelectronics, Electric and Electronic applications :**
OLED, smart windows, ...
- Membrane separation processes :**
water desalination, gas separation purposes, water purification
- (Bio)medical applications :**
High-tech prothese, anti-bacterial material
- Others (Packaging, automotive applications)**