



FIBRE based solutions

CALL FOR PAPERS

# Paper for Power

*Using Paper Technology for energy supply,  
conversion and storage in this decade*

10th November 2022



**Location**

Steigenberger Hotel Dresden



**Organizer**

Papiertechnische Stiftung (PTS)



**Information & Registration:**

[www.ptspaper.com/events](http://www.ptspaper.com/events)

# Call for Papers

Bringing technological goals in energy supply, conversion and storage together along with paper making technology for creating novel cost effective technical materials.

The green energy transition drives ambitious goals around the globe to reach green deal targets in decarbonization of overall economic fields. Green Hydrogen is one of the key strategic substances for energy carrying, retaining and storing as also for coupling the overall economic fields out of the gas section with each other (Gas-to-Power, Gas-to-Heat, Gas-to-Mobility, Gas-to-X). Electrolyzers and fuel cells functional materials therefore need to be high performant, homogenous and cost effective in large amounts in the midterm scale by the end of this decade. Lignocellulosic fibre based materials from wooden and vegetable sources play an increasing role by pointing these properties, controlled by special paper making techniques, no matters if functional materials have to be metallic, ceramic or polymer based. So not even growing markets in the global packaging, health, mobility and construction sector offer manifold opportunities for introducing new processes and future materials based on lignocellulosic fibres for designing carbon dioxide neutral bioeconomy, also the wide application fields of energy techniques are under closer inspection of R&D activities looking toward completely novel material developments of flat functional membranes, separators, electrodes, catalyst carriers, porous transport layers, compact membrane electrode assemblies, solid electrolyte layers, electrode electrolyte composites / electrode separator assemblies, bipolar separator plates and so forth.

## SUBMISSION & FORMAT:

**Deadline for Submission until 31.05.2022!**

- Meaningful summaries in English
- Conference language: English
- Indication of authors and companies involved
- Maximum one DIN-A4 page
- Indication of authors and companies involved
- All speakers participate free of charge.

## CONFERENCE FOCUS:

- fibre, paper, battery, fuel cell and electrolyzer manufacturers
- machinery, measurement and quality control suppliers
- chemical, gas, aviation, automotive industry
- power companies, power plants, energy park development of the application section
- and research institutes of environmental and electrochemical materials, processes, analytics and devices.



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PTS Academy Team

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Phone: +49 (0) 3529 551 618

If you are interested to give a lecture we look forward to your abstract submission covering the above topics. Please send your submission to [ptsacademy@ptspaper.de](mailto:ptsacademy@ptspaper.de).

# Call for Papers

Submissions may cover the following topics:

## Fibre technology and Electrochemistry

- Market Goals, Life Cycle and Degradation Assessments, Performance benchmarks and material challenges for fuel cells, electrolyzers and batteries functional materials
- Fibres, Fillers and Additives for electrochemical functionality

## Application section

(Chemical Industry, Power plant, -supply, Energy park development, Waste water cleaning management, Heat Generation, Real Laboratories, Aviation, Automotive)

- Overview of special cares on Technical and quality requirements like purity, current densities, environmental and mechanical needs on field of application interest
- Power Capacity scenario on the mid- and longterm scale, Scale Up Timelines
- Multi-Use-, Coupling and Transformation Tasks
- Cost analysis

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