



ACCELERATOR

Automation + Miniaturization = Acceleration

**ACCELERATOR: ERA Chair for
Accelerated Synthetic Chemistry Technologies at
Palacký University Olomouc**

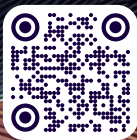
A team of international experts in innovative synthetic chemistry is pushing the boundaries of current state-of-the-art in biomedicine, plant research, and nanotechnologies.

Automation + Miniaturization = Acceleration: Revolutionizing Synthetic Chemistry for a Sustainable Future

In today's technological landscape, the mantra 'Automation + Miniaturization = Acceleration' has proven to be a powerful paradigm, transforming various technology and research domains. However, its potential has yet to be fully harnessed in the field of synthetic chemistry, often considered non-automatable.

The convergence of automation and miniaturization presents a compelling opportunity to enhance throughput, generate 'big data,' and streamline processes in synthetic chemistry. By doing so, we can significantly reduce costs, energy consumption, and waste generation, thereby minimizing the economic and environmental footprint associated with chemical research. Embracing automation and miniaturization aligns with the Sustainable Development Goals outlined by the United Nations and complements the objectives set forth in the European Green Deal. This approach not only accelerates scientific advancements but also opens up new horizons across diverse research areas connected to synthetic chemistry.

With this vision in mind, the ACCELERATOR project aims to propel automation and miniaturization in synthetic chemistry beyond its current state-of-the-art. By synergizing these cutting-edge methodologies with nanotechnology research, plant research, and biomedical studies conducted at CATRIN and Palacký University, we endeavor to create a transformative platform for interdisciplinary collaboration.



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