



KEMIJSKI INŠTITUT

Vabilo na Forum40 / Invitation to the Forum40

**Dr. Milutin Smiljanić**

D10, Department of Materials Chemistry

Četrtek / Thursday, 27.1.2022 ob / at 13:00 / on WEBEX

<https://ki-ljubljana.webex.com/ki-ljubljana/j.php?MTID=mb317ccc2802ec9142a0df1439f7d715b>

Meeting password: Forum40\*

## **Novel supports for Pt nanocatalysts – enhanced electrocatalytic activity, selectivity and stability**

Fuel cells and electrolyzers are electrochemical energy conversion devices able to close the carbon-free loop between sustainable hydrogen production and its utilization as the environmentally benign energy carrier. Degradation of carbon-supported Pt-nanocatalysts and consequently limited lifetime of these devices is one of the major bottlenecks for their widespread commercialization and usage. Breakthroughs in improving not only stability but also selectivity and activity of Pt-catalysts can be achieved using novel support materials as an alternative to carbon.



*Vljudno vabljeni / Kindly invited*