

Research Group: Nanochemistry

The [Nanochemistry Research Group](#) is dedicated to answering fundamental questions of chemistry, catalysis, and materials science in important energy and environmental challenges. We are looking for a qualified Research Fellow (Postdoc) to join our team, and work on the chemical and physical modification of porous transport layers and microporous layers for PEM water electrolysis to improve catalyst adhesion, decrease electrical resistivity, prevent corrosion and improve mass transfer processes.

Job Title:	Research Fellow - Porous transport layers for PEM water electrolysis
PRR Agenda (s):	<i>Moving2Neutrality</i>
Project Title (s):	<i>Development of PEM electrolyzer</i>
Job Reference:	RRP.11.28.02.6
Contract duration:	24 months
Expected hiring date:	January 2024
Main Job Duties:	<ul style="list-style-type: none"> • Coating-assisted development of porous transport layers with improved performance in PEM water electrolysis • Research on the associated electrochemistry • Writing scientific reports and papers based on the obtained results
Required Qualification:	PhD in Natural Sciences or Engineering
Mandatory requirements:	<ul style="list-style-type: none"> • Experience in electrochemistry and electrocatalysis • Expert of the water electrolysis and coatings • Experience in nanomaterials synthesis • Hands-on experience in characterization techniques
Other preferred qualifications:	<ul style="list-style-type: none"> • Experience in the field of PEM electrolyzers • Attention to details, good observation skills • Experience in the field of thin film deposition • Excellent team player in multidisciplinary environment • Good writing, organization, and communication skills • Strive to contribute with new ideas
Supervisor:	Dr. Yury V. Kolen'ko