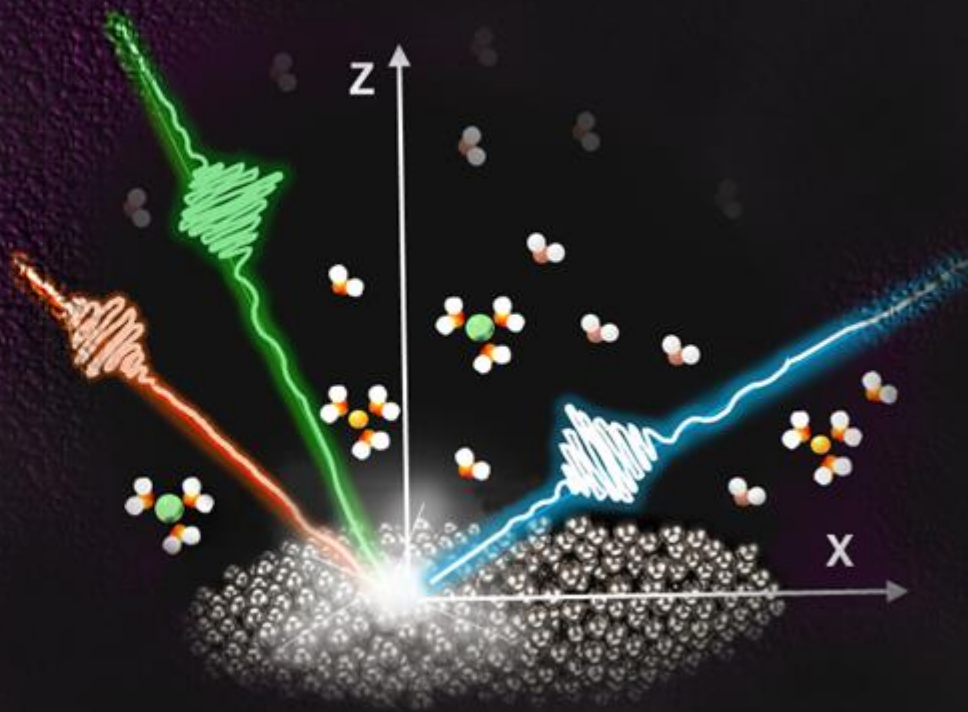


# 7<sup>th</sup> International Symposium

on Surface Imaging/Spectroscopy  
at the Solid/Liquid Interface



5<sup>th</sup> – 7<sup>th</sup> JUNE 2024, Krakow, Poland

## Organizer



Jerzy Haber Institute of Catalysis  
and Surface Chemistry  
Polish Academy  
of Sciences



Faculty of Chemistry  
Jagiellonian University

## Patronage



Polish Academy of Sciences  
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The Rector  
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Polish Chemical Society



Foundation Nanonet



Silesian Nano Cluster

## Invitation

You are warmly invited to the 7<sup>th</sup> International Symposium on Surface Imaging/Spectroscopy at the Solid/Liquid Interface from 5<sup>th</sup> to 7<sup>th</sup> June 2024.

The meeting will be hosted by the Faculty of Chemistry at the Jagiellonian University.

We look forward to welcoming you to the event.

Let's enjoy exquisite science in an inspiring environment.

### International Scientific Committee

*confirmed:*

Magdalena Dudek, AGH, Poland

Krzysztof Fic, PUT, Poland

Halina Krawiec, AGH, Poland

Cheng-Xin Li, Xi'an JU, China

Jacek Ryl, GUT, Poland

Wojciech Simka, SUT, Poland

Grzegorz D. Sulka, JU, Poland **Chair**

Piotr Warszyński, ICSC PAS, Poland

Małgorzata Witko, ICSC PAS, Poland

Leszek Zaraska, JU, Poland

Małgorzata Zimowska, ICSC PAS, Poland

### Local Organizing Committee

Agnieszka Brzózka, JU, Poland

Magdalena Gurgul, JU, Poland

Joanna Kapusta-Kołodziej, JU, Poland

Dzmitry Kharytonau, ICSC PAS, Poland

Grzegorz Mordarski, ICSC PAS, Poland

☛ Michał Mosiałek, ICSC PAS, Poland

Konrad Skowron, ICSC PAS, Poland

Piotr Skowron, ICSC PAS, Poland

Robert P. Socha, ICSC PAS, Poland

Grzegorz D. Sulka, JU, Poland, **Organizer**, e-mail: [sulka@chemia.uj.edu.pl](mailto:sulka@chemia.uj.edu.pl)

Karolina Syrek, JU, Poland

Piotr Warszyński, ICSC PAS, Poland

Leszek Zaraska, JU, Poland

Małgorzata Zimowska, ICSC PAS, Poland, **Co-organizer**, e-mail: [malgorzata.zimowska@ikifp.edu.pl](mailto:malgorzata.zimowska@ikifp.edu.pl)

## Main topics of the conference

- ☞ New materials for electrochemistry and energy related applications - their synthesis and characterization by *in situ* and *ex situ* spectroscopic, microscopic, SPM, and electrochemical techniques
- ☞ Nanomaterials for energy storage, energy conversion, and sensing applications
- ☞ Application of spectroscopic, microscopic, SPM, and electrochemical techniques in studies of surfaces modified by metal oxides, semiconductors, polymers, colloids, hybrid materials, and nano-sized catalysts
- ☞ High resolution imaging of clusters, biomolecules, and biological systems and their characterization using the electrochemical methods
- ☞ Fundamentals of surface structure, reactivity, and electron transfer – comparison of experimental and theoretical results

## Plenary lectures



**Philippe Allongue**, École Polytechnique, France

*Growth and operando studies of CoFe oxide thin films for OER catalysis*



**Nicola Pinna**, Humboldt-Universität zu Berlin, Germany

*Novel Materials Chemistry for Energy and Environmental Applications*



**Cheng-Xin Li**, Xi'an JU, China

*Control of the solid/liquid interface during plasma spraying and its application for high performance electrolyte of solid oxide fuel cells*

## Invited lectures

*confirmed:*



**Angel Cuesta Ciscar**, University of Aberdeen, Scotland, UK

*Water at electrode-electrolyte interfaces: combining HOD vibrational spectra with ab initio-MD simulations*



**Isabella Concina**, Department on Engineering Sciences and Mathematics, Division of Materials Science, Luleå University of Technology, Luleå, Sweden

*Prussian blue analogues as supercapacitors: a critical perspective*



**Illia Dobryden**, RISE Research Institutes of Sweden, Sweden

*Application of advanced nanomechanical and nanoelectrical AFM methods in surface science*



**Ivan Khalakhan**, Department of Surface and Plasma Science, Charles University, Czech Republic

*In situ tracking of oxygen reduction reaction catalysts degradation*

## Invited lectures



**Halina Krawiec**, AGH University of Krakow, Poland

*Corrosion mechanism of binary MgZn and AlMg alloys in artificial seawater in the presence of a thin electrolyte layer and in the bulk electrolyte solution*



**Wojciech Nogala**, Institute of Physical Chemistry, Polish Academy of Sciences, Poland



**Sanju Gupta**, 1. Department of Metrology and Optoelectronics, Faculty of Electronics, Telecommunication and Informatics, Gdańsk University of Technology, Gdańsk, Poland;  
2. Department of Physics, The Pennsylvania State University, University Park, PA 16802, USA  
*'Multipronged' approach to investigate interfacial processes on graphene-based hybrid electrodes at solid/liquid interface for electrochemical energy storage*



**Marta Przeźniak-Welenc**, Gdansk University of Technology, Poland

*Structure Matters: Unraveling the Photocatalytic Properties of Vanadate Bronzes*



**Jacek Ryl**, Gdansk University of Technology, Poland

*Multiparametric impedance discriminant analysis - a new, effective tool to study macromolecular fingerprints*



**Sławomir Sęk**, Faculty of Chemistry, University of Warsaw, Poland

*Supported lipid bilayers as platforms for probing action of antimicrobial peptides and peptidomimetics*



**Maciej Sowa**, Silesian University of Technology, Poland

*The role of post-treatment parameters on the properties of oxide films formed on light metal alloys via plasma electrolytic oxidation*



**Mikhail Zheludkevich**, Institute of Surface Science, Helmholtz-Zentrum Hereon & Institute for Material Science, Kiel University, Germany

*Understanding the evolution of anode/electrolyte interface during discharge of Mg-Air primary cells*

## Special issue of *Electrochimica Acta*



A special issue of *Electrochimica Acta*, open for all participants, will be published after the conference.

Participants will have the opportunity to publish their work presented at the Symposium in a special issue of *Electrochimica Acta* (**Impact Factor: 6.6**). Potential authors will be invited by the editors of the special issue, and each manuscript will undergo a standard review procedure.

## The conference venue



**Faculty of Chemistry**  
 Jagiellonian University  
 Gronostajowa 2, 30-387 Kraków, Poland

## Important dates

	Date
Registration deadline	15 <sup>th</sup> May 2024
Deadline for abstract submission for oral presentation	30 <sup>th</sup> April 2024
Conference begins	5 <sup>th</sup> June 2024

## Conference fee

	Early bird (before 15 <sup>th</sup> April)	Regular
Regular participant	1700 PLN (€ 380)	1800 PLN (€ 400)
Student	850 PLN (€ 185)	900 PLN (€ 200)
Invited speakers	1050 PLN (€ 230)	1125 PLN (€ 250)

*Please note: if the course of euro significantly changes, the prices in PLN will be corrected*

**Conference fee includes:** participation in the conference, conference materials, coffee breaks and lunches, conference dinner, refreshments during the poster sessions, welcome reception.

## Commercial participants

Commercial enterprises are invited to present their products during the conference. Cost of participation **2035 PLN**, VAT not included.

Additional accompanying participants must pay the following fees: 1700 PLN *before April 15<sup>th</sup>* or 1800 PLN *after April 15<sup>th</sup>* (VAT not included).

### The fee covers:

(1) *Participation in the conference, conference materials, coffee breaks and lunches, conference dinner, refreshments during the poster sessions, welcome reception.*

(2) *Stand and poster table close to the conference room for presenting the products during the whole conference and one page in the book of abstracts in colour for advertisements.*

## Forms of participation

Oral presentation on invitation of the organizers or selected from among submitted abstracts. All participants will also have the opportunity to present their achievements in the form of posters.

## Abstract and registration form

Please visit an official website of the conference: <http://issis.edu.pl/>

## Address for correspondence

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