ESEAC
Lisbon 2026

20th International Conference on Electroanalysis

Conference Program






Conference Program

Sunday, June 7

Sala dos Passos Perdidos **Faculty of Medicine, NOVA University Lisbon**

16:30 – 17:00	**Registration**
17:00 – 19:00	**Welcome Reception**

Monday, June 8

	Auditorium *(Room 3.2.14)*	
8:40 – 9:10	**Opening**	
	Chair: Felipe Conzuelo	
9:10 – 9:55	**Plenary Lecture (PL-1)** **Fabiana Arduini**	Paper-Based Electrochemical (Bio)Sensors as Sustainable and Smart Devices
9:55 – 10:25	**Keynote Lecture (KN-1)** **Joseph Wang**	Long Journey Towards Wearable Bioelectronic Platforms

	Auditorium *(Room 3.2.14)*	***Lecture Hall*** *(Room 3.2.15)*
	Chair: Fabiana Arduini	Chair: Joseph Wang
10:25 – 10:45	**IN-1: Ulrich Rant** Electroactuated DNA Origami Nanolevers Enable Molecular Friction Sensing of Ligand-Induced Protein Conformational Changes	**IN-2**: **Hua Cui** Flexible Wearable Electrochemiluminescence Chip for Sweat Metabolite Detection

10:45 – 11:00	**OP-1: Yan Du** Pathogen Diagnosis Relying on Electrochemical Techniques	**OP-2: Xiurong Yang** Development of Electrochemi-luminescence System Based on Co-reaction Accelerator Signal Amplification for the Detection of Alzheimer's Disease Biomarker
11:00 – 11:15	**OP-3: Elena Ferapontova** Cellulase-Linked Aptamer Sensors for Cancer Biomarker Discovery and Point of Care Testing	**OP-4: Samuel Stewart** Spatially Resolved Wire-Free Electrochemiluminescence on Carbon Electrodes
11:15 – 11:30	**OP-5: Lara Z. Heyns** Surface-Captured-Protein Voltammetric Graphene Aptasensor Strategy for Direct Signal-on Detection of Proteinic Biomarkers	**OP-6: Jun-Jie Zhu** Electrochemiluminescence Imaging for Bioanalytical Application
11:30 – 11:50	*Coffee Break*	
	Auditorium *(Room 3.2.14)*	***Lecture Hall*** *(Room 3.2.15)*
	Chair: Ulrich Rant	Chair: Hua Cui
11:50 – 12:05	**OP-7: Michael López Mujica** A Universal Platform for Fast fM Electroanalysis of Nucleic Acids Exploiting O_2-Dependent Electrocatalytic Hemin–G4 Beacons on Magnetic Beads	**OP-8: Franziska Kühling** Bipolar Electrodes in Microfluidic Devices
12:05 – 12:20	**OP-9: Noemí de-los-Santos-Álvarez** Key Features in the Design of Robust Temperature-Independent Aptasensors for Continuous Monitoring	**OP-10: Lin Zhang** Design of Enzyme-Functionalized Janus Particles for Enzymatic Reactions at the Oil/Water Interface
12:20 – 12:35	**OP-11: Vasiliki Papantoniou** 3D-Printed Gold-Coated Microneedle-Based Electrochemical Aptasensors: A Two-Way Street Towards In-Vivo Monitoring	**OP-12: Sara Grecchi** Wireless Colorimetric pH-Sensing for the Quantification of Chiral Analytes
12:35 – 12:50	**OP-13: Slađana Đurđić** rGO/La_2O_3-based Electrochemical Aptasensor for the Detection of *Bacillus cereus* Spores	**OP-14: Anastasios Papavasileiou** Lighting up TLC Platforms through Wireless Electrochemistry

12:50 – 14:00	*Lunch*	
	Auditorium *(Room 3.2.14)* Chair: Christine Kranz	
14:00 – 14:30	**Keynote Lecture (KN-2)** **Leyla Soleymani**	Real-Time Electrochemical Monitoring of Aptamer–Target Binding in Vitro and in Vivo
	Auditorium *(Room 3.2.14)* Chair: Christine Kranz	***Lecture Hall*** *(Room 3.2.15)* Chair: Leyla Soleymani
14:30 – 14:50	**IN-3: Taek Dong Chung** In Situ Real Time Monitoring of Zinc Bromine Batteries by Electrochemical Impedance Spectroscopy	**IN-4: Suna Timur** Electrochemical Capture and Analysis of Exosomes on Functional Surfaces in Complex Biological Matrices
14:50 – 15:05	**OP-15: Wolfgang Schuhmann** Micro- and Nanoelectroanalytical Tools for Electrocatalysis	**OP-16: Jaymi January** Nanobody-Sensitised Immunosensors for Persistent Viral Reservoir Biomarker and Macrophage-Capping Protein
15:05 – 15:20	**OP-17: Mohsen Shakouri** X-ray Spectroscopic Techniques for Probing Electrochemical Interfaces and Energy Materials at the Canadian Light Source	**OP-18: Almira Ramanaviciene** Gold Nanostructures-Based Electrochemical Immunosensor for Detecting Antibodies to the SARS-CoV-2 Spike Protein
15:20 – 15:35	**OP-19: Elena Daboss** Investigating Hot-Electron-Mediated Electrochemistry at Plasmonic Gold Nanorods on ITO Electrodes	**OP-20: Pablo Rioboó-Legaspi** Development of an Electrochemical Vertical Flow ImmunoAssay for the Fast Determination of Glial Fibrillary Acidic Protein (eVFIA-GFAP)
15:35 – 16:00	*Coffee Break*	
	Auditorium *(Room 3.2.14)* Chair: Taek Dong Chung	***Lecture Hall*** *(Room 3.2.15)* Chair: Suna Timur
16:00 – 16:15	**OP-21: Christine Kranz** Localized Studies on Light-Driven H_2 Evolution of Photosensitizer-Catalyst Matrixed Langmuir Blodgett and Langmuir Schaefer Films	**OP-22: Estefanía Costa-Rama** ElectrochemCap for Integrated Immunoelectrochemical Determination of S100B Protein

16:15 – 16:30	**OP-23: Harry B. Swan** Long-Range Scanning Electrochemical Cell Microscopy (SECCM): Large Area Structure–Activity Mapping of the Hydrogen Evolution Reaction (HER) on Polycrystalline Platinum	**OP-24: Alessandro Puzzello** Development of Microneedle-Based Electrochemical Biosensors for the Detection of Neurodegenerative Diseases Biomarkers
16:30 – 16:45	**OP-25: Steffen Hardt** Accelerated Hydrogen Evolution at Polymer-Functionalized Gold – Insights by Combining *Operando* Microscopy with Simulation	**OP-26: Ana Fernández-Quesada** Pin-Based Electrochemical ELISA Readout: A Cost-Effective Portable Alternative to Conventional Microplate Readers
16:45 – 17:00	**OP-27: Assil Guessab** *Operando* Characterization of Bioelectrodes by Electrochemistry and (Super Resolution) Fluorescence Microscopy	**OP-28: Haesik Yang** Robust Two-Electrode Immunosensing Enabled by a Kinetically Stable and Potential-Guiding Redox System
17:00 – 17:15	**OP-29: Pedro H. Alves Damasceno** Nanostructured Platinum-Black Based Sensors for Ascorbate Monitoring using SECM	**OP-30: Teodor A. Enache** Real-Time Electrochemical Monitoring of Superoxide in Cellular Wound Models
17:15 – 17:30	**OP-31: Iustina Botezatu** Investigating Bioenergetic Activities of Single Mitochondria by AFM-SECM Functional Nanoscopy	**OP-32: Paula Martínez-Pérez** Cas12a Electrochemical Biosensors for Enhanced RNA Detection in Plants
17:30 – 19:00	**Poster Session 1**	

Tuesday, June 9

	Auditorium (Room 3.2.14)	
	Chair: Susana Campuzano	
9:00 – 9:45	**Plenary Lecture (PL-2)** **Justin Gooding**	Nanoparticles that Mimic the Three-Dimensional Architecture of Enzymes: The Role of Nanoconfinement in Enhancing Activity and Selectivity
9:45 – 10:15	**Keynote Lecture (KN-3)** **Neus Sabaté**	Development of Liquid Triggered Batteries for Sustainable Low Power Electronics

	Auditorium (Room 3.2.14)	*Lecture Hall* (Room 3.2.15)
	Chair: Justin Gooding	Chair: Neus Sabaté
10:15 – 10:35	**IN-5**: **Goreti Sales** Self-Powered (Bio)Sensing	**IN-6**: **Simona Baluchová** Exploring 3D Printing of Polymer Composite and Metal Electrodes for Electroanalysis
10:35 – 10:50	**OP-33: Greg M. Swain** Diamond Microelectrodes for Probing Neurosignaling Processes in the GI Tract	**OP-34: Christos Kokkinos** Tailor-Made Filaments for 3D Printed Electrochemical (Bio)Sensing Devices
10:50 – 11:05	**OP-35: Alexander G. Zestos** Metal Organic Framework (MOF)-Modified Carbon Fiber Microelectrodes for Enhanced Neurochemical Detection	**OP-36: Elena Bernalte** Customized Conductive Filaments Functionalized with Metallic Nanoparticles for High-Performance 3D Printed Electrochemical Sensors – A New Frontier
11:05 – 11:20	**OP-37: Hui Gu** Two-Nanosensor Electrochemical Profiling of Catecholamine Vesicle Interactions with Acute and Chronic Stress Granules in Living Cells	**OP-38: Francesca Polli** Systematic Optimization of Gold Electrodeposition Procedures on 3D-Printed Conductive Architectures for Enhanced Electrochemical Sensing
11:20 – 11:40	*Coffee Break*	

	Auditorium *(Room 3.2.14)*	***Lecture Hall*** *(Room 3.2.15)*
	Chair: Goreti Sales	Chair: Simona Baluchová
11:40 – 11:55	**OP-39: Lisa Deflandre** Electrochemical Aptamer-Based Biosensor for Neurotransmitter Mapping and Quantification Using Scanning Electrochemical Microscopy	**OP-40: Bruno C. Janegitz** Designing Electrochemical Sensors for Sustainability and Circularity
11:55 – 12:10	**OP-41: Romana Jarosova** Probing Chemobrain with Electrochemistry: Neurotransmitter Dynamics and Preventative Strategies in Zebrafish	**OP-42: Georgina K. Rhodes** Electrochemical Insights from Microscale Electrical Conductivity and Electrochemical Activity Mapping of 3D Printed Carbon Black – Polylactic Acid Composite Electrodes
12:10 – 12:25	**OP-43: Noha Shalabny** Electrochemical Sensor for Orthogonal Analysis of Neurochemicals	**OP-44: Michele Abate** Polyester Based Toner and Filaments for Assembling Paper-Based and 3D Printed Metal Leaves Electrodes
12:25 – 12:40	**OP-45: Ana Maria Oliveira-Brett** Curcumin Interaction with Amyloid-ß Peptides: Electrochemical and AFM Characterisation	**OP-46: Panagiota Kalligosfyri** Fully 3D-Printed Electrochemical Devices for (Bio)Sensing Applications
12:40 – 12:55	**OP-47: Francesca Lembo** NeuroSens: Wire-free Electroceuticals for Multianalyte Diagnosis of Neurodegenerative Disease	**OP-48: Olga Szymaniec** Disposable 3D-Printed Sensing Platforms for Drug Electroanalysis at ITIES
12:55 – 14:00	*Lunch*	

	Auditorium *(Room 3.2.14)*	
	Chair: Rasa Pauliukaitė	
14:00 – 14:30	**Keynote Lecture (KN-4)** **Nako Nakatsuka**	Aptamer-Based Nanoscale Electrochemical Sensors for Neurochemical Detection in the Brain

	Auditorium *(Room 3.2.14)*	***Lecture Hall*** *(Room 3.2.15)*
	Chair: Nako Nakatsuka	Chair: Rasa Pauliukaitė
14:30 – 14:50	**IN-7**: **Mamas Prodromidis** Generation of Nanomaterials via Spark Discharge: An In-Situ Liquid-Free Green-Chemistry Technology for Advanced Electrochemical (Bio)Sensing Devices for Decentralized Analysis	**IN-8**: **Pedro Estrela** Electrochemical Biosensors and Biodevices for Medical Diagnosis and Water Monitoring
14:50 – 15:05	**OP-49: Saimon M. Silva** An Electrochemical Platform that Exploits Lectin Interactions with a Cancer Glycocalyx Model for Rapid Glycomic Analysis	**OP-50: Damion K. Corrigan** Measuring Antibiotic Susceptibility in the Hospital Environment Using a Rapid Electrochemical Impedance-Based Approach
15:05 – 15:20	**OP-51: Rebeca M. Torrente-Rodríguez** Advanced Bioelectroanalytical Approaches for Methylation and Telomerase Activity Profiling in Tumor Cells	**OP-52: Beatriz Sequeira-Antunes** AptaFET-Based Creatinine Biosensor for Real-time Urinalysis
15:20 – 15:35	**OP-53: Derya Yaman** Carbon PCB-Based Electrochemical Lateral Flow Assay for Multiplexed Liver Biomarker Analysis	**OP-54: Victor C. Diculescu** Impedance Modulation in Hybrid Fiber Interfaces for Nucleic Acids Detection
15:35 – 16:00	*Coffee Break*	
	Auditorium *(Room 3.2.14)*	***Lecture Hall*** *(Room 3.2.15)*
	Chair: Mamas Prodromidis	Chair: Pedro Estrela
16:00 – 16:15	**OP-55: Yu-Nan Lu** Electrochemical Monitoring of Cancer Biomarkers via Simultaneous Multiplexing with Gold-Coated Magnetic Nanoparticles	**OP-56: Daniel Mandler** How Can the Sensitivity of Sensors Be Significantly Increased? The Story of the Nanoparticle-Imprinted Matrix (NAIM)
16:15 – 16:30	**OP-57: María Gamella** Charting Across the Omics Cancer Epigenetic Landscape via Electrochemical and Proteomic Bioanalysis	**OP-58: Ali Kemal Ateş** Construction of an Electrochemical Sensor based on Molecularly Imprinted Polymer for Voltammetric Determination of Empagliflozin

16:30 – 16:45	**OP-59: Jiri Barek** Modern Electroanalytical Methods in Monitoring of Cancer Biomarkers	**OP-60: Henri P.A. Nouws** Molecularly Imprinted Polymer Paper-Based Sensor for Electrochemical Analysis of Genistein in Food Products
16:45 – 17:00	**OP-61: Sumaya Ishtiaq** Improving Antifouling of Protein Biosensing Surface by Surface Optimization and Electrical Pulsing	**OP-62: José Luiz da Silva** A Low-Cost PPy-MIP/rGO Screen-Printed Carbon Sensor for Selective Electrochemical Monitoring of Pyrazinamide
17:00 – 17:15	**OP-63: Flavia Di Scala** A Biosensor with Simplified Target Recognition for Early Detection of Leprosy from Serum of Household Contacts	**OP-64: Valentina Pifferi** Bimodal (Photo)Electrochemical Approach to Enantiomeric Tryptophan Detection Using Modified MWCNT/Oligo-Thiophene Electrodes
17:15 – 17:30	**OP-65: Seda Nur Topkaya** Portable Electrochemical Biosensors for Point-of-Care Pathogen Identification and Antibiotic Susceptibility Assessment	**OP-66: Nahush Modak** Engineered Reaction Centers Enable Multi-Residue Herbicide Sensing at EU Maximum Residue Limits
17:30 – 19:00	**Poster Session 2**	

Wednesday, June 10

	Auditorium *(Room 3.2.14)*	
	Chair: Wolfgang Schuhmann	
9:00 – 9:45	**Plenary Lecture (PL-3)** **Alexander Kuhn**	Electroanalysis-Unplugged
9:45 – 10:15	**Keynote Lecture (KN-5)** **Alberto Escarpa**	Adaptive Electrochemistry: Paper and 3D Printing as Enablers of Next-Generation Analytical Devices

	Auditorium *(Room 3.2.14)*	***Lecture Hall*** *(Room 3.2.15)*
	Chair: Alexander Kuhn	Chair: Alberto Escarpa
10:15 – 10:35	**IN-9**: **Rodrigo A. A. Muñoz** Plasma Treatment Enhances the Electrochemical Performance of Additively Manufactured Electrodes	**IN-10**: **Johan Bobacka** Utilizing the Pseudocapacitance of PEDOT to Improve the Performance of Solid-Contact Ion-Selective Electrodes
10:35 – 10:50	**OP-67: Flavio Della Pelle** Smart Strategies for the Integration of Laser-Nanostructured Sensing Surfaces in Paper-based and 3D-Printed (Bio)Electroanalytical Devices	**OP-68: Alessandra Bonanni** Electroanalytical Strategies for the Detection of Micro- and Nanoplastics in Aqueous Systems
10:50 – 11:05	**OP-69: Stefano Cinti** Paper-Based Electroanalysis: The Best is Yet to Come	**OP-70: Melinda David** Tailoring Nanomaterials Towards the Specific Detection of PFAS using Electrochemical Sensing Surfaces
11:05 – 11:20	**OP-71: Anastasios Economou** Multi-Folding Electrochemical Paper-Based Devices for (Bio)Sensing Applications	**OP-72: Giulia Moro** AI-Ready Yes/No Perfluoroalkyl Substances Screening in Drinking Water
11:20 – 11:40	*Coffee Break*	

	Auditorium *(Room 3.2.14)*	***Lecture Hall*** *(Room 3.2.15)*
	Chair: Rodrigo A. A. Muñoz	Chair: Serena Arnaboldi
11:40 – 11:55	**OP-73: Christopher M.A. Brett** New Polymer-Modified-Electrode Electrochemical Sensors and Biosensors: the Role of Deep Eutectic Solvents	**OP-74: Danjela Kuscer** Electrochemical Detection of Environmental Pollutants in a Flow-Based Analytical Sensor Platform
11:55 – 12:10	**OP-75: Rasa Pauliukaite** Investigation of New Redox Polymers for Application in Electrochemical Sensing	**OP-76: Alexandr Stratulat** A Generalizable Machine Learning Framework for Voltammetric Detection of Chemical Threats
12:10 – 12:25	**OP-77: Verdiana Marchianò** Bioinspired Edible Hydrogels for In Situ Gastrointestinal Glucose Detection	**OP-78: Pauline Kiefer** Prediction of Glucose Electrochemical Enzymatic Biosensor's Sensitivity Using Machine Learning
12:25 – 12:40	**OP-79: Mercè Pacios** TMD-Polymer Nano-Architectures as Smart Platforms: From Stimuli-Responsive Environmental Remediation to Biomedical Applications	**OP-80: Julia Mazurków** Electrochemical Fingerprinting Beyond Pattern Recognition: Establishing Structural Origins of Voltammetric Response
12:40 – 12:55	**OP-81: Livia Alexandra Dinu** Graphene Nanocomposite-based Electrochemical Sensors Fabricated on Silicon Substrate for Food Applications	**OP-82: Eduardo Laborda** From Feedback Regimes to Architecture Characterisation: Theory-Guided Redox Cycling in Two-Electrode Sensors
12:55 – 14:00	*Lunch*	
14:00 – 18:00	**Excursion**	
19:30 – …	**Gala Dinner**	

Thursday, June 11

	Auditorium (Room 3.2.14) Chair: Elena Ferapontova	
9:00 – 9:45	**Plenary Lecture (PL-4)** **Kristina Tschulik**	Bridging From Art to Application – Electrocatalytic Insights From Pico- to Ampere Levels
9:45 – 10:15	**Keynote Lecture (KN-6)** **Paolo Actis**	Structural Analysis of Ribosomes with Solid-State Nanopores

	Auditorium (Room 3.2.14) Chair: Kristina Tschulik	*Lecture Hall* (Room 3.2.15) Chair: Paolo Actis
10:15 – 10:35	**IN-11: María Isabel Pividori** Electrochemical Biosensing Platform Enabled by Biofunctional and Biomimetic Magnetic Particles. From Fever Triage to Exosomes and Waterborne Pathogens	**IN-12: Jay D. Wadhawan** Field Effects at Electro-Bio-Geo Interfaces and their Applications
10:35 – 10:50	**OP-83: Eduardo M. Richter** Rapid and Reproducible Robotic Cleaning of Glassy Carbon Electrodes	**OP-84: Conor F. Hogan** Ultra-low cost Voltammetric Sensing using Smartphone Audio Hardware
10:50 – 11:05	**OP-85: Albert Schulte** Pyrolytic Graphene Electrodes with Electrodeposited Copper Surface Modification for Water Nitrate/Nitrite Analysis	**OP-86: Áine Brady** Spatially Controlled, Wirefree, Drug Release Along a Single PEDOT Film
11:05 – 11:20	**OP-87: Celia Toyos-Rodríguez** Electrochemical Monitoring of Riboflavin in Fortified Food Matrix Using Tailored Graphene-Based Aerogels	**OP-88: Guobao Xu** Electrochemical Detection Based on Simple Pre-Reaction

11:20 – 11:40	*Coffee Break*	
	Auditorium *(Room 3.2.14)* Chair: María Isabel Pividori	***Lecture Hall*** *(Room 3.2.15)* Chair: Jay D. Wadhawan
11:40 – 11:55	**OP-89: Serena Arnaboldi** Wireless Bipolar Electrochemistry at Chiral Polymer Interfaces: A New Paradigm for Analytical Microreactors	**OP-90: Frank-Michael Matysik** Electrochemical Strategies for Capillary Flow Systems: Inlet, Outlet, and MS Coupling
11:55 – 12:10	**OP-91: Konrad Rudnicki** Electrochemical Approaches at the Liquid–Liquid Interfaces for Ensuring Food Quality Control	**OP-92: Mariusz Pietrzak** Valve-free Lab-on-a-Foil Microsystem for Electrochemical Immunodetection of Neutrophil Gelatinase-Associated Lipocalin
12:10 – 12:25	**OP-93: M. Asunción Alonso-Lomillo** Contactless Sensor for Long-term Amperometric Detection of Volatile Thiols in Wine	**OP-94: Robert P. Johnson** Pharmaceutical Analysis with Nanopores in Non-Aqueous Solvent
12:25 – 12:40	**OP-95: Joseany M. S. Almeida** Electroactive Poly(Brilliant Cresyl Blue) Films by Electropolymeriza-tion in Ethaline Deep Eutectic Solvent on Graphene Quantum Dot Modified Carbon Electrodes for Dipyrone Sensing	**OP-96: Bengisu Yöney** Impedance-Based Detection and Monitoring of Biofilm Development by *Staphylococcus aureus* and *Staphylococcus epidermidis*
	Auditorium *(Room 3.2.14)*	
12:40 – 13:20	**Closing Ceremony**	

Poster Presentations

Poster Session 1

Posters **P-1 to P-84**

On display Monday, June 8

P-1	**Menasria Abdelmouaiz**	Binder-Free Ni–Cu Oxide Nanoarchitectures Grown on Nickel Foam for Enhanced Non-Enzymatic Glucose Sensing
P-2	**Izri Yasmine**	Grass-Like CuCo Oxide Nanowire Arrays on Nickel Foam for Sensitive and Wide Range Non-Enzymatic Glucose Sensing
P-3	**Margarida António**	Electrodeposition-Based Integration of Zinc-Tin Oxide Nanostructures for High-Sensitivity pH Sensors
P-4	**Murat Aydemir**	Electrochemical Sensor Application of 1T-MoS_2 QDs/ BD-g-C_3N_4 Heterojunction Structure
P-5	**Mia Ambuski**	Electroanalytical Approach to Uncover Neurochemical Changes Induced by Persistent Organic Pollutants
P-6	**Nicola Furlan**	Development of 3D Electroactive Scaffolds for *In-Situ* Electrochemical Neurotransmitter Detection
P-7	**Yaroslav Bazel**	Pyrantel-sensitive Potentiometric Sensors Based on Ion Pairs of Some Xanthene Reagents
P-8	**Dorathea S. Lee**	First Electrochemical Characterization of Lorlatinib Enabling Investigation of Chemotherapy-Induced Cognitive Decline
P-9	**Rowan S. Blake**	Electrostatic Interaction Between Gentamicin and the Ferri/ Ferrocyanide Redox Couple as a New Potential Detection Methodology
P-10	**Mariola Brycht**	Thin Organic Film Electrodes as a Promising Tool for The Investigation of The Anticancer Drug Vincristine
P-11	**Clara Pérez-Ràfols**	Toward Practical pH Sensing: Commercial Gold SPEs for Electrochemical Applications
P-12	**Núria Serrano**	Pulsed Amperometric Detection as a Versatile Tool for HPLC Analysis of Multistep Redox Compounds
P-13	**Alessandra Cutaia**	A Voltammetric e-MIP-Modified Screen-Printed Sensor for the Determination of L-Tryptophan in Human Serum
P-14	**Sevinc Kurbanoglu**	Molecularly Imprinted Electrochemical Sensor Based on Polyaniline Decorated Strontium-Metal Organic Framework Nanocomposite for the Detection of Ibrutinib

P-15	**Carolina Neves Lourenço**	Magnetic MIPs: A Promising Tool for PFOA Sensing
P-16	**Mandana Amiri**	Electrochemiluminescence Sensors Based on Engineered Carbon Quantum Dot Luminophores
P-17	**Mamas Prodromidis**	Screen-Printed Electrochemiluminescence Modules Utilizing Novel Luminophores for Environmental and Clinical Applications
P-18	**Paula Caldevilla-Collado**	Unmodified Screen-Printed Electrodes for Sensitive and Direct ECL Detection of Fentanyl
P-19	**Eun Joong Kim**	Electrochemical Detection of Fentanyl and Morphine Using Au–NiO_x-Modified Screen-Printed Carbon Electrodes
P-20	**José Luiz da Silva**	Voltammetric Analysis of Pyrazinamide at a Graphene Oxide-Modified Screen-Printed Carbon Electrode
P-21	**Lucio Angnes**	Sustainable Electrochemical Sensors from Bamboo Bark
P-22	**Ammara Aziz**	Laser-Induced Graphene Electrodes for the Detection of *Cryptosporidium parvum*
P-23	**Carina S.P. Vieira**	Electrochemical Assessment of CYP3A4 Catalysis Using a Do-it-Yourself Laser-Induced Graphene Electrode Platform
P-24	**Celia Toyos-Rodríguez**	Carbon-Based Aerogels as Advanced Electrode Materials for Non-Enzymatic Glucose and Acetaminophen Detection
P-25	**José Manuel Díaz-Cruz**	Commercial Screen-Printed Carbon Electrodes for the Continuous On-site Monitoring of Organic UV Filters in Studies of Adsorption by Microplastics
P-26	**Njoroge Serah**	Advanced Analysis of L-Lysine Electro-Grafting Conditions on Carbon Electrodes
P-27	**Drochss Pettry Valencia**	Graphene-Based Electro-Fenton Electrochemical Sensors for the Determination of Total Emerging Contaminants in Water
P-28	**Oisín Foley Doyle**	Sculpting Electric Fields for Spatial Control in Three-Dimensional Bipolar Electrochemistry
P-29	**Deanna Saunders**	Structural Analysis of Ribosome with Solid-State Nanopores
P-30	**Ho-Sub Bae**	Solar-Driven Waste Valorization with Concurrent Hydrogen Production on TiO_2 Nanorods in Seawater
P-31	**Tuan Kiet Nguyen**	Covalent Organic Frameworks Modified-Electrode Designed for PFAS Treatment via Electrochemical Method
P-32	**Sarang Kim**	Beyond Water Oxidation: Selective Biomass Valorization Enables Unassisted PEC H_2O_2 Production on Iron Oxide Photoanodes
P-33	**Yoanna Penkova**	Electrochemically Synthesized Cobalt-Tungsten Oxides as Photo-Anodes for Photo-Electrochemical Water Splitting

P-34	**Vittorio Ricci**	Chemically Stable $SnSe_2/TiO_2$ Photoanode Heterostructure for Efficient Solar to Energy Conversion in Neutral Electrolyte
P-35	**Ieva Barauskienė**	The Influence of Iron Oxide Phase on the Electrocatalytic Activity of Ni- and Co-Doped Iron Oxides for AEM Electrolysis
P-36	**Youngkook Kwon**	Designing and Understanding Interfaces for CO_2 Electrolysis
P-37	**Krzysztof Mech**	Efficiency and Stability of Thermally Evaporated Cu@GDE Electrodes for eCO_2RR
P-38	**Sidra Muzaffar**	Evaluating the Stability, Selectivity and Activity of Cu-Ag Bimetallic Catalysts for Electrochemical Reduction of CO_2
P-39	**Katarzyna Wielondek**	Nonmetalated Hypercrosslinked Polymer Oxygen Sponges for ORR Electrocatalysis
P-40	**Metka Benčina**	Electrochemical Synthesis of Nanotubular TiO_2 Structures Using Environmentally Friendly Electrolytes
P-41	**Akın Baysal**	Investigation of the Electrochemical Properties of Optically Active Transition Metal-Amido-Phosphide Complexes
P-42	**Djamel Eddine Kadri**	Synergistic Electrocatalysis in $NiMoO_4$/PANI Nanorod Arrays: a Hybrid Electrode for Efficient Methanol Oxidation
P-43	**Nahush Modak**	Reaction-Center Immobilisation in Redox Hydrogels Improves Operational and Storage Stability for Herbicide Sensing
P-44	**Anne de Poulpiquet**	Visualization of the Electrode/Electrolyte Interface by *Operando* Fluorescence Microscopy: Characterization of the Local Electro-Enzymatic Reactivity
P-45	**Rosa Maria Matteucci**	Electrochemical Investigation of Charge Transfer and Redox Regulation in Nanoparticle–Purple Bacteria Biohybrid Systems
P-46	**Kornelia Bobrowska**	Investigation of Bilirubin Oxidase Adsorption Processes on Porous Gold Layer – Kinetic and Thermodynamic Approach
P-47	**Paula Calli Falcoswki**	Study of Oxygen Consumption by Bioluminescent *K. phaffi* Yeast with a Platinized Platinum Microelectrode and a 3D-Printed Electrochemical Cell
P-48	**Alessandro Cacia**	Evaluation of Biophotovoltaic Activity of Electrodes Modified with *Synechocystis* sp. Cells Isolated and Stored for Prolonged Time
P-49	**Sebastian Freko**	Towards a “Digital” Readout for Cell-Free Biosensors Using Single Impact Electrochemistry
P-50	**Byung-Kwon Kim**	Single-Entity Electrochemistry for Metal Ion Sensing: Direct Nanoparticle Generation and Emulsion-Assisted Ion Trapping
P-51	**Daniela S. Flamino**	A Novel Amperometric Immunosensing Amyloid-Based Bioplatform
P-52	**Araceli González-Cortés**	Electrochemical Biosensing Platforms: A Valuable Strategy for Microbiome Screening

P-53	**Viktorija Liustrovaite**	MXene-based Electrochemical Immunosensor for the Detection of SARS-CoV-2 Spike Protein
P-54	**María Pedrero**	Integrated Sustainable Silk Fibroin-Based Electrochemical Immunoplatform for TIM-1 Determination in Oncological and Allergy Scenarios
P-55	**Kristina Sobol**	Polydopamine-Modified $Ti_3C_2T_x$ MXenes for Electrochemical Immunosensing
P-56	**Michele Abate**	A 3D-Printed Portable Smartphone-Based Analytical Device for Dual Spectrophotometer and Electrochemical Monitoring of β-Galactosidase Activity
P-57	**Estefanía Costa-Rama**	Evaluation of 3D-Printed Electrochemical Cells Based on Conductive Filaments for Electroanalytical Applications
P-58	**Anesa M. Martin**	3D-Printed Electrodes for Low-Cost Point-Of-Care CO_2 Monitoring
P-59	**Maria Trachioti**	Micropillar-Based 3D-Printed Electrodes to Deliver Highly Sensitive and Heavy-Duty Wearable Sensors
P-60	**Flavio Della Pelle**	3D-Printed Analytical Device Integrating Functional Paper Components for Direct Amitraz Sensing
P-61	**Grzegorz Kowalski**	Electrochemical Platform for Electroanalysis of Codeine: Which Does it Better?
P-62	**Veerappan Mani**	Low-Cost Scalable Printed Electrodes for Early Aquaculture Health Assessment
P-63	**Leticia Siqueira**	3D-Printed Carbon Black Electrode for Electrochemical Analysis of Agricultural Compounds
P-64	**Robert D. Crapnell**	The Next Generation of Additive Manufacturing Electrochemistry: Bespoke Polymers and Multifunctional Filaments
P-65	**Callum V. A. Crockford**	Iteratively Prototyping 3D Printed Cells with Integrated Electrodes for *In-situ* Radical Generation and Detection via Electrochemical-Electron Paramagnetic Resonance Spectroscopy (EC-EPR)
P-66	**Rafael Del Caño**	Evaluation and Development of New Electrochemical Platforms Based on 3D Printing
P-67	**Serafina Coupe**	Barcoded DNA Origami for Multiplexed Single Molecule Biosensing
P-68	**Yingxi Long**	Accurate Aptamer Assays for Blood-Circulating Forms of HER-2/neu
P-69	**Bruno Lourenço**	Development and Analytical Study of an Amperometric Aptasensor for Label-Free Detection of Uric Acid
P-70	**Giuseppina Rea**	Sub-Femtomolar Detection of Serum HER-2/*neu* Via Electrocatalytic Reduction of Ferricyanide by Methylene Blue and Ruthenium Hexamine at PEG-Blocked Aptamer Electrodes

P-71	**Sara Reguera-Riera**	Quinone-Based Electrogenerated Coatings for Covalent Immobilization of DNA Probes in Electrochemical Genosensing
P-72	**Víctor Ruiz-Valdepeñas Montiel**	Multimodal Electroanalytical Biotechnologies for Unraveling the Multifunctionality of Non-canonical G-quadruplex Structures in Human Biopsies
P-73	**Senyao Wang**	Dual-Channel Electrochemical Signal Conversion on Interdigitated Electrodes for Rapid Small-Molecule Analysis in Biofluids
P-74	**Lianxin Xu**	Electroanalytical Fingerprinting of Aptamer-Nanopore Surface Chemistry for Robust Neurochemical Biosensing
P-75	**Lorenzo Zarini**	A Functional Polymer Coating Enabling Stable and Oriented DNA Immobilization on Electrochemical Electrodes
P-76	**Alexander Frey**	Electrolyte Potential Control Schemes for Redox-Cycling
P-77	**Joaquín Gonzalez**	Dos and Don'ts in the Measurement of Kinetics Influences of Electrochemical Responses Obtained Under Spatial Confinement
P-78	**Jian F.S. Pereira**	Beyond Equations: Experimental Insights into Detection Limits in Electroanalysis
P-79	**Milkica Janeva**	Theoretical and Experimental Study of Electrode Mechanisms in Drug Analysis with Square-Wave Voltammetry
P-80	**Javier López-Asanza**	Square-Wave Voltammetry in Reference-Free Redox-Cycling: Model-Assisted Design and Optimisation
P-81	**Maria Jassibe Hernandez**	Use of a Machine Learning Model of Impedance Spectroscopy Data for Acrylamide Prediction in Roasted Coffee
P-82	**Daan Vangerven**	Electrochemical Analysis for On-Site Explosive Identification: From Raw Signals to Reliable Sensing
P-83	**Aleksander Jaworski**	Multi-Frequency AC Staircase Voltammetry Coupled with Four-Way Chemometrics as an Ultimately Relevant Approach for On-Line Monitoring of Electroplating Baths in Semiconductor Manufacturing
P-84	**Rasa Pauliukaitė**	UV-Assisted Matrix Decomposition for Ultra-Trace Rhodium Determination in Automotive Exhaust Samples Using Differential Pulse Adsorptive Stripping Voltammetry

Poster Session 2

Posters **P-85 to P-165**

On display Tuesday, June 9

P-85	**Sara R. Gaspar**	Development of a New Amperometric Sensor for TAN Quantification Based on the Berthelot Reaction
P-86	**Ana Maria Chiorcea Paquim**	Electrochemical and AFM Investigation of POT1–Telomeric DNA Interactions at Carbon Interfaces
P-87	**Jelena Vujančević**	Tailoring Electrochemical Deposited Nickel Hydroxide/ Oxyhydroxide Morphology on Screen-Printed Electrodes for Glucose Sensing
P-88	**Pavlinka Kokoskarova**	Development of a Voltammetric Strategy for the Detection of Uric Acid, Bilirubin, and Albumin in Human Serum
P-89	**Giulia Moro**	Opto-Impedimetric Screening of Sub-5 µm Polystyrene Microplastics Using a Peptide-based Biorecognition Layer
P-90	**Andrzej Krempiński**	Electrochemical Behavior of Sunset Yellow FCF at the Electrified Liquid-Liquid Interface
P-91	**Karolina Kwaczyński**	Unmasking Street Amphetamine
P-92	**Emilia Powałka**	Towards Electrochemical Determination of Psilocybin Using ITIES
P-93	**Clara Pérez-Ràfols**	Integrating Electroanalysis into Dual-Sensing Strategies for Complex Optical Systems
P-94	**Ivana Novak Jovanović**	Electrochemistry Meets Designer Drugs: Voltammetric Determination of Synthetic Cannabinoids in Herbal Products and e-Liquids
P-95	**Lucie Pražáková**	Comparison of On-line EC–MS and Off-line Batch and Flow Approaches for Electrochemical Oxidation of Pharmaceuticals
P-96	**Salah Samir**	Monometallic Oxide Deposited on Nickel Foam for Electrochemical Cocaine Sensor
P-97	**Núria Serrano**	Cyclic Voltammetry Fingerprints as a Tool to Authenticate Honeys
P-98	**Krittamate Buppasirakul**	A Rapid Dose-Response Toxicity Bioassay Using Ferricyanide-Mediated Two-Electrode Electroanalysis
P-99	**Christopher M. A. Brett**	Green-Synthesised MIP-Nanohybrid Sensors for the Electrochemical Monitoring of Emerging Pollutants
P-100	**Valérie Gaudin**	Aptasensors and MIP-Based Electrochemical Sensors for the Detection of Chloramphenicol in Foodstuffs

P-101	**Soodabeh Hassanpour**	Determination of Antidepressant Drugs Using a Surface Molecularly Imprinted MMM/GO-Modified Carbon Paste Electrode
P-102	**Henri P.A. Nouws**	Inkjet-Printed Paper-Based Electrode Modified with a Molecularly Imprinted Polymer for the Analysis of Sulfamethoxazole
P-103	**Feyyaz Durap**	Investigation of Electrochemical Behavior of Molnupiravir Using 2D-0D Heterojunction Structures as an Electrode Material
P-104	**Slađana Đurđić**	Metal-Functionalized Graphitic Carbon Nitride Nanosheets: Synthesis, Structural, Morphological, and Electrochemical Characterization
P-105	**Beshara S. Isaacs**	Highly Sensitive Nanocomposite Iridium-Doped Graphitic Carbon Nitride Electrochemical Sensor for Wastewater Estrogens
P-106	**Saara Sippola**	Exploring the Nature of Dopamine Adsorption on SWCNTs for Electrochemical Sensing
P-107	**Rafaela C. de Freitas**	Wearable Electrochemical Sensor for Sport Monitoring
P-108	**Isha Basumatary**	Microneedle-Integrated $W_2TiC_2T_x$ MXene@WSe_2 Nanocomposite for Real-Time In-Vivo Electrochemical Glucose Monitoring
P-109	**Anton Popov**	Fabrication of Polymeric Nanofibers Membranes Coated with MXenes and Gold Nanorods Nanoconjugates
P-110	**Njoroge Serah**	Rapid Multi-Detection of Drugs in Water by a Cost-Efficient Electrochemically Activated GCE
P-111	**José Manuel Díaz-Cruz**	Analytical Applications of UV-Vis Spectroelectrochemistry with Screen-Printed Electrodes
P-112	**Zoraida González**	Carbon Quantum Dots as Active Materials for Electrochemical Sensing of Biological Targets and Water Pollutants
P-113	**Ehsan Mohammadi**	Engineering Fe_2O_3-TiO_2-Carbon Dot Heterostructures for Enhanced Photoelectrochemical Water Oxidation
P-114	**YoungWoon Kang**	Optimization of an Analytical Method for the Determination of MOSH and MOAH in Food Samples using On-Line LC-GC-FID
P-115	**Miguel A. Jimenez-Munoz**	NanoLuc Bioelectrochemical Sensor on Unmodified Screen-Printed Carbon Electrodes as a Low-Cost Alternative for Enzyme Kinetics Determination and Small Molecules Sensing
P-116	**Yong-Wook Choi**	Investigating Faradaic Efficiency Analysis for Anodic Electrocatalysis

P-117	**Katherine S. Bettencourt**	*Ortho* or *Para*? The Role of Quinones in Organic Cathodes for Sodium-Ion Batteries
P-118	**Nikolas Franke**	Modulated Electrochemical AFM for Nanoscale Analysis of Ion Intercalation in Battery Materials
P-119	**Lana Regent**	Validation of TLM Fitting Parameters of Symmetric Cells from Harvested NMC Cathodes
P-120	**Lana Regent**	Low-frequency EIS of Degraded Commercial NMC-Graphite Li-ion Cells
P-121	**Kyosik Hwang**	Quantifying Alkaline pH Generation in Bipolar Membrane Electrodialysis under Continuous Once-Through Operation
P-122	**Ebrahim Sadeghi**	Shaping Low-Iridium $IrRuO_x$ Electrocatalysts with Structural and Electronic Modulation for Proton Exchange Membrane Electrolyzers
P-123	**Luca Marie Sicking**	Novel Electrode Design to Couple Theory and Experiment for the Investigation of H_2 Transport under Confinement
P-124	**Ji-Hyung Han**	Electroanalytical Insight into Porous $Mg(OH)_2$ Formation under Seawater Acidification in Bipolar Membrane Electrolysis
P-125	**Nikita Griscenko**	Corrosion of Al Waste for Hydrogen Production
P-126	**Mirela Santos**	Temperature Effects on Localized Corrosion of Copper in Chloride Solutions
P-127	**Berrabha Samar Kenza**	Development and Study of the Protective Efficacy of New Corrosion Inhibitors Based on Plant Extracts
P-128	**Francesca Rizzo**	Bioelectrochemical Investigation of the W-Dependent Formate Dehydrogenase from *Desulfovibrio vulgaris* Hildenborough
P-129	**Douglas P.M. Saraiva**	Oxygen Permeability of Contact Lenses Probed by Scanning Electrochemical Microscopy
P-130	**Nuno M. Machado**	A Sulfate-Reducing Bacterium as a Biocatalyst for Green Electrosynthesis
P-131	**Ivan Osipenko**	Combined Detection of Biofilm Formation of *Staphylococcus epidermidis*
P-132	**Ricardo J.B. Leote**	Electrochemical Characterization of Conjugated Polymer Photoelectrodes for Biophotovoltaic Applications
P-133	**Zeynep Elcim Koru**	Detecting Exosomes Through Electrochemical Biosensors in Health Applications
P-134	**Lei Oscar Cuasay**	Dual-mode Sensing of Breast Cancer-derived Extracellular Vesicles Using Electrochemical Impedance Spectroscopy and Surface Acoustic Waves

P-135	**Marcela A. Segundo**	Concanavalin A-Based Impedimetric Biosensor for Glycoprotein Analysis: From Model System to Rituximab Detection
P-136	**Cinthya P. Felix-Navarro**	Electrochemical Optimization of a Gold-Modified Screen-Printed Carbon Electrode Platform for *Loxosceles* Spider Venom Detection
P-137	**Benediktas Brasiūnas**	The Prospects of Using MXenes in the Design of Electrochemical Immunosensor for SARS-CoV-2 Spike Protein Detection
P-138	**Lilian Collins**	Found in Translation: Nanoparticle Bioconjugation as a Tool for Tailored Functionalisation to Gold Sensor Surfaces
P-139	**Pablo Fagúndez**	Cyclic Voltammetry as a Reliable Tool for the Step-by-Step Assessment of Bioconjugate Nanoparticles
P-140	**Sanja Lazarova**	Green and Sustainable Synthesis of Silver Nanoparticles Using Grape Seeds for Overcoming Aggregation Through a Heterogeneous Protocol
P-141	**Maria Trachioti**	Poly(4-vinylpyridine)-Based Electrodes as pH Sensors for the Prompt and Sensitive Detection of Carbapenemases
P-142	**Anastasios Papavasileiou**	Empowering Near-Patient Diagnostics in Surgical Room Through Electrochemical Sensing
P-143	**Elena Bernalte**	Edible Oils as Bio-Plasticizers for Sustainable Additive Manufactured Electrochemical Platforms
P-144	**Luca Sartorelli**	PEDOT:PSS as Additive in Photopolymerization-Based 3D Printing
P-145	**Lucía Quintana**	Graphene-Based Inkjet Printed Electrochemical Sensors for Detecting Water Contaminants of Emerging Concern
P-146	**Magno A.G. Trindade**	All-in-One 3D-Printed Microfluidic Electroanalytical Platform
P-147	**Ana Fernández-Quesada**	Draw, Flow, Detect: A Do-It-Yourself Paper-Based Microfluidic Platform with Integrated Electrochemical Detection
P-148	**Daciana Botta**	Rational Design for Reliable Microfluidic Electrochemical Devices
P-149	**Liliana P. T. Carneiro**	From Glucose to Diagnosis: A Paper-Based Fuel Cell Platform for Interleukin-6 (IL-6) Detection in Endometriosis Disease
P-150	**Amanda Neumann**	Comparative Evaluation of Multiplexed Electrochemical Screen-Printed Sensor Systems for Drug Detection
P-151	**Željka Boček**	Potentiometric pH Measurement in an Organ-on-a-Chip System Using Polyaniline Functionalized Inkjet-Printed Electrodes

P-152	**Anna Secundo**	Systematic Characterization and Batch-to-Batch Reproducibility of Commercial Screen-Printed Carbon Electrodes
P-153	**Sofiia Ivakh**	Design, Development, and Characterization of Screen-Printed Amalgam Electrodes for Cathodic Determination of Salinomycin
P-154	**Jaroslav Filip**	Ruthenium Red as a Modifier of Glassy Carbon Electrodes for H_2O_2 Sensing
P-155	**Jeewoo Kim**	Electrochemical Determination of Polymer Molecular Weight Based on the Mark–Houwink–Sakurada Equation
P-156	**Miriam Chávez**	Standardizing Molecular Interfaces for Low-Cost Electrochemistry: Functional Ethylene-Glycol Coatings *with* and *for* Electrochemical Quality Control
P-157	**Sara Krivačić**	Pyrolysis-Induced Enhancement of Capacitance and Hydrophobicity in Fullerene-Stabilised ZIF-67 Solid Contacts for Screen-Printed Ion-Selective Electrodes
P-158	**Yoonji Kim**	Electrochemical Evaluation of Enzymatic Degradation Kinetics of Polyester: A Quantitative Platform for Real-Time Monitoring
P-159	**Aaron Mena-Rodríguez**	Amperometric Biosensors Based on Engineered Glycine Oxidase Variants for Glyphosate Detection
P-160	**Adam Hughes-Buchanan**	Electrochemical Detection of Chitin using a Novel Enzyme Combination
P-161	**Olga Domínguez-Renedo**	Tyrosinase Based Biosensing of Phenols within a Deep Eutectic Solvent Matrix
P-162	**Ana Pinção**	Bacterial Laccase-Based Biosensor for Phenolic Compound Detection
P-163	**Neža Sodnik**	The Stability of Prussian Blue-Modified Screen-Printed Electrodes for Enzymatic Polyamine Sensors
P-164	**Blanca Cassano**	Polydopamine-based One-Pot Immobilization of PQQ-GDH on Graphite Electrodes for Reliable Glucose Sensing
P-165	**Arunas Ramanavicius**	Electrochemical Formation of Molecularly Imprinted Polypyrrole and Application in Sensor Design