Parallel Sessions 1 - Monday 23rd

	Sustainability in chemistry	Analytical applications and solutions	Biochemistry	Energy conversion, storage, materials	
	HS P1 - Petersgasse 16	HS P2 - Petersgasse 16	HS BMT - Stremayrgasse 16	TDK-S. - Petersgasse 16	
Chair	Karin Stana Kleinschek	Erich Leitner	Christian Becker	Gregor Trimmel	Chair
11:20	**Wilfried Sailer-Kronlachner OP-030**	**Iga Malicka OP-042**	**Robert Kourist OP-046**	**Christina Toigo OP-096**	11:20
	Bio-based Lignin as phenol replacement: Phenol-Lignin Blends in Adhesive Synthesis	Glucose and lactate optical biosensors for microfluidic cell culture monitoring	Enzymatic synthesis of olefins for the synthesis of biobased adhesives	Redefining Price-Performance Metrics for Sodium-Ion Batteries	
11:35	**Elisabeth Billich OP-032**	**Matthäus Rupprecht OP-040**	**Jasmin Zuson OP-062**	**Christoph Malleier OP-078**	11:35
	Experimental design for fully bio-based wood adhesives made from citric acid and glycerol	Measurements of aerosols at different heights above a spruce forest canopy in Lower Austria	Stereoselective Oxidation of Borneol by Borneol-type Dehydrogenases	Double Perovskites as model sensors for electronic structure response during Exsolution under Methane Dry Reforming conditions.	
11:50	**Hendrikus W. G. van Herwijnen OP-053**	**Daniel Kau OP-036**	**Markus Braun OP-097**	**Edith Bucher OP-028**	11:50
	Wood adhesives based on proteins	Thermal-optical analysis of light-absorbing snow impurities	De novo enzyme design by artificial motif library scaffolding	Development of Cobalt-free High-entropy Perovskite Solid Oxide Cell Air Electrodes	
12:05	**Bálint Batha OP-083**	**Theresa Mautz OP-027**	**Elske van der Pol OP-082**	**Klaus Bretterbauer OP-074**	12:05
	The journey towards lignin-based high performance surfactants	Optical Oxygen Sensing with Luminescent (Surface-Anchored) Metal Organic Frameworks	A new binding mode sheds light on the mechanism of Aryl Malonate Decarboxylase	Fluorine-free water-processable binders for high-energy lithium-ion batteries	
12:20	**Antonio A. Castillo-Garcia OP-072**	**Nikolas Hondl OP-043**	**Herwig Prasch OP-041**	**Bernhard Gollas OP-061**	12:20
	Walking up the value chain: the development of catalytic and electrochemical pathways to access high-value products from lignin	Advancements in Infrared Spectroscopy for Cancer Detection	Labeling of Active Glycoside Hydrolases Applying the Ligand Directed Chemistry Approach	Corrosion of Aluminium Anodes in Chloroaluminate Electrolytes for Secondary Batteries	
12:35	**Lucas Fernandez OP-064**	**Teodora Raicu OP-075**	**Ortwin Ertl OP-105**	**Julia Hönigsberger OP-069**	12:35
	From Meteorite to Life's Building Blocks: A possible Electrochemical Pathway to Amino Acids and Peptide Bonds.	p-PVC in Pop Art: Kiki Kogelnik's Famous Cutouts (1968-1986)	High-Volume Chemicals from Biomass – By Means of a Unique Fractionation Technology and Enzymatic Reactions	Interface Stability of Organic Solar Cells	

BIOBASED CHEMISTRY & TECHNOLOGY

CHEMIETAGE 2024

23.-25. Sept.

ÖSTERREICHISCHE CHEMISCHE GESELLSCHAFT

TU Graz Graz University of Technology

Hungarian Chemical Society

Parallel Sessions 2 - Tuesday 24th

	Sustainable in chemistry	Synthesis	Biochemistry	Analytical applications and solutions	
	HS P1 - Petersgasse 16	HS P2 - Petersgasse 16	HS BMT - Stremayrgasse 16	TDK-S. - Petersgasse 16	
Chair	Marko Hapke	Rolf Breinbauer	Robert Kourist	Christian Huck	Chair
10:10	**Raphael Berger OP-057**	**Konstantin Kosenko OP-021**	**Anne Conibear OP-010**	**Christopher Gerner OP-086**	10:10
	Paths to and for a Systematic Quantitative Analyses of Magnetically Induced Current Densities	Synthesis and application of imidazoquinoline ligands in cancer immunotherapy	Deciphering the 'chaperone code' of Heat Shock Protein 90	The finger sweat metabolomics assay Metabo-tip supports long COVID research	
10:25	**Thomas Lainer OP-049**	**Nicolas Kratena OP-104**	**Verena Lipic OP-048**	**Andreas Matijevic OP-011**	10:25
	Single-Source Precursors: A Versatile Tool for Liquid Phase Deposition	Bio-inspired approaches for the synthesis of complex triterpenoids	Tuning Hydrophobicity in MTV-MAF biocomposites for Enhanced Enzymatic Performance	Optical Ammonia Sensors Based on Novel aza-BODIPY dyes	
10:40	**Dennis Svatunek OP-044**	**Miljan Ćorović OP-063**	**Mislav Sušac OP-076**	**Dubravka Jembrih-Simbürger OP-059**	10:40
	Understanding Organic Chemistry Using Energy Decomposition Methods	Towards sustainable acetylene activation	Novel application of a FAD dependent glycoside oxidoreductase for biosensing and bioelectrocatalysis	Silver and gold inks, dyes and pigments on the early Carolingian manuscript "Dagulf Psalter": In-situ multi-analytical approach using XRF mapping, FORS and HSI	
10:55	**Konstantin Knaipp OP-012**	**Christoph Suster OP-089**	**Margit Winkler OP-052**	**Vanessa Moll OP-081**	10:55
	Photoresponsive covalently linked dextran networks	Bridging Worlds: Carbohydrate-Derived Chiral Building Blocks for To-tal Synthesis via NHC-Catalyzed Stetter Reaction	Biocatalytic synthesis aldehydes and follow up products	Authentication of Coffea Arabica subvarieties: Comparative multispectral discrimination by NIR and UV-Vis spectroscopy aided by artificial neural networks and data fusion	
11:10	**Nina Strasser OP-0115**	**Christina Rodler OP-019**	**Pedro A. Sanchez-Murcia OP-102**	**Christina M. Tonauer OP-035**	11:10
	Influence of pore-confined water on thermal expansion of a zinc-based metal-organic framework	Investigation of biological activities of synthetic vincamine derivatives	Understanding the mutational landscape in lysosomal storage disorder enzymes	Near-infrared spectroscopy for remote sensing of crystalline and amorphous ices	
11:25	**Alexander Felgel-Farnholz OP-037**	**Tobias Dorn OP-033**	**Doris Ostner OP-008**	**Michael Schober OP-039**	11:25
	Headspace and extraction gas chromatography of plastic waste during different reprocessing steps of mechanical recycling	Towards Bioactive Chitosan Thin-Films and Bulk Materials by a Modular Chemical Modification	Enzymatic hydrolysis of polycotton blends: Scaleup from eprouvette to reactor	Austrian Scientists of Mass Spectrometry: A Comparison of the Biographies of Hugo Bondy and Richard Herzog – the Influence of Politics on Scientific Careers	

Parallel Sessions 3 - Tuesday 24th

	Sustainability in chemistry	Synthesis	Photochemistry		Synthesis	
	HS P1 - Petersgasse 16	HS P2 - Petersgasse 16	HS BMT - Stremayrgasse 16		TDK-S. - Petersgasse 16	
Chair	Paolo Falcaro	Stefan Pirker	Georg Gescheidt-Demmer		Rupert Kargl	Chair
1:50	**Walter Wukovits OP-091**	**Bartholomäus Pieber OP-002**	**Peter Stacko OP-101**	1:50	**Stylianos Spyroglou OP-038**	1:50
	Overcoming challenges in decarbonization of iron and steel production using process simulation	Light-mediated nickel catalysis enabled by donor-acceptor ligands	Light in a Heartbeat: From Synthesis to Controlling Cardiomyocytes		CO_2 valorisation via inductive heating: Using supported FeCo nanoparticles as self-heating catalysts	
2:05	**Norbert Hohenauer OP-070**	**Uwe Osswald OP-092**			**Christoph Weinzettl OP-079**	2:05
	Unveiling PHB Depolymerization Dynamics through Simulation-Assisted Kinetics Modeling	Synthesis of oligosaccharides related to RG-II			Deep eutectic solvents and ionic liquids as alternative sorbents in absorption heat pumps	
2:20	**Artur Tron OP-023**	**André Stephan Culum OP-034**	**Gabriel Glotz OP-103**	2:20	**Jessica Michalke OP-026**	2:20
	Principle Approaches of Recyclable Solid-State Batteries with Polymer, Oxide, Sulfide and Halide Electrolytes	Stereoselective Synthesis of N-Modified Isofagomines: Impact on Glycosidase Inhibition Profiles	Hunt for Dark States: The Photophysics and Photochemistry of Heptamethine Cyanine Dyes		Amanita Muscaria for Heterogeneous Redox Transformations	
2:35	**Florian Lindner OP-025**	**Adam Slabon OP-108**			**Georg Rudelstorfer OP-080**	2:35
	Investigating Mechanical Properties of Metal Organic Frameworks with Brillouin Light Scattering	Materials in Circular Operation - Hamster Wheel or Pathway to the Future?	**Thomas Griesser OP-099**	2:40	Continuous multiphase synthesis of 2-Methoxyhydroquinone in the Taylor-Couette Disc Contactor	
2:50	**Horst Lechner OP-077**	**Dado Rodic OP-073**	Wavelength Orthogonal Photochemistry in Lithography Based Additive Manufacturing		**Johann Hlina OP-087**	2:50
	Designed Fluorescent Proteins for Light-Emitting Diodes	Influence of ligand substitution on nature-inspired zinc catalysts for CO_2 reduction			Heterodinuclear Rare-Earth/Late Transition Metal Complexes	
3:05	**Wolfgang Hansal OP-094**	**Fabian Dielmann OP-067**	**Alan Liška OP-085**	3:00	**Christoph Schmidleitner OP-004**	3:05
	Dynamic electro-chemistry as key technology on the way to achieving ambitious climate and environmental targets	Replacing sp2 Carbon Atoms with Phosphorus Cations: New Stages for Bond Metathesis Reactions	Acylgermanes and related compounds from the electrochemical point of view		Frontal polymerization of thiol-acrylate networks with dynamic properties	

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Parallel Sessions 4 - Tuesday 24th

	Synthesis, Sustainability	Synthesis	Photochemistry		Sustainability, Open Topics	
	HS P1 - Petersgasse 16	HS P2 - Petersgasse 16	HS BMT - Stremayrgasse 16		TDK-S. - Petersgasse 16	
Chair	Peter Gärtner	Tanja Wrodnigg	Michael Haas		Rudolf Krska	Chair
5:20	**Bernhard Sölle OP-005**	**Lotte Stockhammer OP-014**	**Hansjörg Grützmacher OP-100**	5:20	**Dominik Wielend OP-009**	5:20
	Synthesis of Bio-Based Monomers and Their Use in Dynamic Photopolymer Networks	From Isothioureas to Isotelluroureas: Design of Chiral Lewis Bases for Stereoselective Reactions	Synthesis of tailor-made Bis(acyl)phosphanoxides (BAPOs) as multiple Photoinitiators, Cross-Linkers, and Inimers		Investigation and visualization of the electrocatalytic oxygen reduction reaction of homogenous, organic molecules using the rotating-ring-disc electrode	
5:35	**Gabriele Laudadio OP-006**	**Max Schmallegger OP-058**			**Marco Sigl OP-016**	5:35
	An Automated Electrochemical Flow Platform to Accelerate Library Synthesis and Reaction Optimization via Nickel Catalysis	Photochemical Metal-Polymer Nanocomposite Synthesis			Improving the catalytic activity of ZnIn2S4 thin films by introducing hierarchical porosity	
5:50	**Kanokkan Sriwaiyaphram OP-018**	**Clara A. Roller OP-031**	**Sandra Schlögl OP-050**	5:50	**Dominik Krisch OP-017**	5:50
	Advancements in Ester Synthesis: Broadening the Substrate Range of Carboxylic Acid Reductases and Integrating ATP Regeneration for Catalytic Efficiency	Phoshanyltetrylenes vs. Heteronuclear Cluster Compounds: An Experimental and Computational Study on Design and Reactivity	Synthesis of dynamic photopolymers containing externally activatable catalysts		Molecularly tailored catalysts for the optimization of CO2 electrolyzers	
6:05	**Heidrun Gruber-Wölfler OP-056**	**Matthias Steiner OP-022**			**Corina Schimanofsky OP-029**	6:05
	Multistep (bio/photo) catalytic reaction cascades in continuous flow	Phosphonium phenolate zwitterions as tools to investigate oxirane and Michael acceptor chemistry			Bio-inspired polymers for CO2 capture and O2 reduction	
6:20	**Michael Schnürch OP-013**	**Christoph Garstenauer OP-095**	**Wolfgang Kern OP-055**	6:10	**Stephan Landgraf OP-045**	6:20
	Solvent free Organic Synthesis - Sustainability through Mechanochemistry	Germanium(IV) Compounds as Novel Catalyst Class in Polyurethane Chemistry	Surface-functionalization with Germanium-based photoinitiators for surface-mediated, radical and cationic photopolymerization		Weak effects on electron transfer reactions	
6:35	**Nikolaus Gorgas OP-024**	**Tamás Takács OP-084**	**Katharina Ehrmann OP-106**	6:30	**Janine Maier OP-051**	6:35
	Vinylic C–H Activation of Styrenes by an Iron–Aluminum Complex	Self-healing polyvinyl alcohol with dynamic Schiff base linkages	Light-based additive manufacturing from a chemist's perspective: The 3D printer as a reactor for new material chemistry		Synthesis and Electrochemical Characterization of Symmetric Aminoquinones	