

# 9<sup>th</sup> World Chemistry Conference & Exhibition




Jun 24-25, 2026



Barcelona, Spain (*Hybrid Event*)

 <https://worldchemistry.org/>

 [Alex\\_greenSPAN@worldchemistry.org](mailto:Alex_greenSPAN@worldchemistry.org)

 +1-408-465-0048

 +1-408-352-1010



# 9<sup>th</sup> World Chemistry Conference & Exhibition



Jun 24-25, 2026 at Barcelona, Spain (Hybrid Event)

Day-1 (June-24)

## Meeting Hall: Sitges

Registrations (08:30-09:00)

Opening Ceremony (09:00-09:30)

Moderator: Anne Gaucher, *Universite Paris-Saclay, France*

### Keynote Talks

09:30-10:00

**Title: Biodegradable and Biocompatible Functionalized Polycaprolactones for Drug Delivery**

Mihaela C. Stefan, *University of Texas at Dallas, USA*

10:00-10:30

**Title: Metal oxide-based nanomaterials for the degradation of organic pollutants in water using ozone and hydrogen peroxide as oxidants**

Lukasz Wolski, *Adam Mickiewicz University in Poznan, Poland*

10:30-11:00

**Title: Structure-based discovery of kinetic stabilizers for transthyretin amyloidosis**

Salvador Ventura, *Universitat Autònoma de Barcelona (UAB), Spain*

Group Photo & Refreshment Break (11:00-11:20)

## Technical Session-I

**Session Chairs :** *Mihaela C. Stefan, University of Texas at Dallas, USA*

*Andreas Roodt, University of the Free State, South Africa*

**11:20-11:40**      **Title: A detailed kinetic-mechanistic study of the homogeneous catalytic CO<sub>2</sub> capture by epoxides and the corresponding formation of cyclocarbonate**

*Andreas Roodt, University of the Free State, South Africa*

**11:40-12:00**      **Title: Combination of ammoniacal nitrogen recovery using a gas-permeable membrane and anaerobic digestion to treat high-strength waste streams**

*David Faulon Marruecos, Universitat de Barcelona, Spain*

**12:00-12:20**      **Title: Design, synthesis of novel F-18 labeled PET probes for imaging Sigma-1 Receptor in CNS**

*Zhude Tu, Washington University School of Medicine, USA*

**12:20-12:40**      **Title: Electromagnetic Field–Assisted Enhancement of Transdermal Drug Delivery: A Comparative Study of NSAIDs**

*Paula Ossowicz-Rupniewska, West Pomeranian University of Technology in Szczecin, Poland*

**12:40-13:00**      **Title: Effect of Electromagnetic Fields on Permeation and Skin Accumulation of Ibuprofen**

*Anna Nowak, Pomeranian Medical University in Szczecin, Poland*

Lunch Break @ Restaurant (13:00-14:00)

## Scientific Session II

Session Chair: Lukasz Wolski, *Adam Mickiewicz University in Poznan, Poland*

- 14:00- 14:20**      **Title: Fluorescence of Aqueous Assemblies Regulated by Integral Water**  
*Xiaosong Wang, University of Waterloo, Canada*
- 
- 14:20- 14:40**      **Title: First-Principles vs Experimental Design of Nanomaterials for Energy Applications**  
*Omar Mounkachi, Mohammed V University, Morocco*
- 
- 14:40- 15:00**      **Title: Understanding and rationalizing cooperativity effects between non-covalent interactions: towards more efficient anion receptor platforms**  
*Anne Gaucher, Université Paris-Saclay, France*
- 
- 15:00- 15:20**      **Title: Design of Phosphine-Heteroarenesulfonamide Ligands for Enantioselective Construction of  $\alpha$ ,  $\beta$ -Diamino Acids**  
*Yuka Iizuka, Nagoya Institute of Technology, Japan*
- 
- 15:20- 15:40**      **Title: Efficient Detection of  $^1\text{H}$ ,  $^{15}\text{N}$  Correlations in Hydrogen Bonded Low Molecular Catalyst-Substrate Intermediates**  
*Julian Ilgen, Institute for Organic Chemistry, University Vienna, Austria*
- 
- 15:40-16:00**      **Title: Generation of Fuels by Metal-Organic Framework-Based Photocatalysts**  
*Amarajothi Dhakshinamoorthy, Madurai Kamaraj University, India*

16:00- 16:10 Refreshment Break

Poster Presentations (16:10- 17:20)

- WCCE-1**      **Title: Gold (I)-catalyzed synthesis of 2, 3-dihydroindoliziniums**  
Simon Titien, *University of Strasbourg, France*
- 
- WCCE-2**      **Title: Semisynthetic aminoglycosides: towards novel antibiotics targeting resistant strains**  
Ettelbruck Cédric, *University of Strasbourg, France*
- 
- WCCE-3**      **New catalytic methods for C-alkylation through formation of Gold(I) acetylides**  
Jules Dartois, *University of Strasbourg, France*
- 
- WCCE-4**      **Title: CO<sub>2</sub> adsorption on potassium-exchanged offretite zeolite**  
Ilyes Bouledjouad, *Oran 1 university, Algeria*
- 
- WCCE-5**      **Title: Development of Biosorbents Derived from Deep Eutectic Solvent-Modified Banana Peel for Dye Removal from Wastewater**  
Gabriela Chamorro Gil, *Universidad Santiago de Cali, Colombia*
- 
- WCCE-6**      **Title: Nanoparticles in a biopolymer matrix: developing eco-friendly antimicrobial films with copper nanoparticles**  
Valeria Cuervo Estupiñan, *Universidad Santiago de Cali, Colombia*
- 
- WCCE-7**      **Title: Influence of polarity and voltage of static magnetic fields (SMFs) on the permeation and accumulation of naproxen in the skin.**  
Anna Muzykiewicz-Szymańska, *Pomeranian Medical University in Szczecin, Poland*
- 
- WCCE-8**      **Title: The effect of various types of electromagnetic fields on the solubility and lyophilization of ketoprofen Barcelona**  
Łukasz Kucharski, *Pomeranian Medical University in Szczecin, Poland*
-

---

**Title: Rational drug design targeting TOP2 in cancer therapy**

**WCCE-9**

**Ning Xie**, *University of British Columbia, Canada*

---

**Title: Surface-Engineered Iron Oxide Nanoparticles for Controlled Temozolomide Delivery in Cancer Therapy**

**WCCE-10**

**Monica Fernanda Antolinez Perez**, *Universidad nacional de Colombia, Colombia*

---

**Pannel Discussions & Closing Cermony**

---

# 9<sup>th</sup> World Chemistry Conference & Exhibition



Jun 24-25, 2026 at Barcelona, Spain (Hybrid Event)

Day-2 (June-25)

## Scientific Session III

**Moderator :** Gabriela Chamorro Gil, *Universidad Santiago de Cali, Colombia*

**Session Chairs :** Miguel Angel Fernández Niño, *Spanish National Research Council, Spain*  
Oommen Varghese, *Uppsala University, Sweden*

**09:30-09:50**      **Title: Lipids and Cations as Coupled Regulators of Membrane Protein Insertion and Folding**

Alexey S. Ladokhin, *The University of Kansas Medical Center, USA*

**09:50-10:10**      **Title: Energy exchange within and between ADH1A enzymes, involving external exciton conductors, as a showcase of the essentially quantum nature of enzymes and proteins**

Igor Khmelinskii, *University of the Algarve, Portugal*

**10:10-10:30**      **Title: Rational drug design targeting TOP2 in cancer therapy**

Xuesen Dong, *University of British Columbia, Canada*

**10:30-10:50**      **Smart Crosslinking Chemistry for Functional Bioprintable Hydrogels**

Oommen Varghese, *Uppsala University, Sweden*

## Refreshment Break (10:50-11:10)

**11:10-11:30**      **Title: Supervision and control of a network of biological-chemical processes by Multi-step Forecasting methods**

Agnar Höskuldsson, *Holbæk University Hospital, Denmark*

---

**11:30-11:50**      **Title: Structure, interaction with biomolecules, and cytotoxicity of copper (II) complexes chelating some Schiff base ligands**

*Aleksandar Mijatovic, University of Belgrade, Serbia*

---

**11:50-12:10**      **Title: From bean to chocolate: unravelling the biochemistry and microbiology of cocoa processing through multi-omics analyses**

*Miguel Angel Fernández Niño, Spanish National Research Council, Spain*

---

**12:10-12:30**      **Title: Implementation of Large-Scale Multi-Reactor Automation for Process Development**

*Jarred Blank, Novartis Pharma AG, Switzerland*

---

**12:30-12:50**      **Title: Metal-Acetylide Organic Frameworks: Synthesis, Characterization and Application Studies**

*Wai-Yeung Wong, The Hong Kong Polytechnic University, Hong Kong*

---

**12:50-13:10**      **Title: Magnetism for the quantification of sorption in porous materials from liquid media**

*Ruben Perez Aguirre, Universidad del País Vasco/Euskal Herriko Unibertsitatea, Spain*

---

**Pannel Discussions & Closing Ceremony**

---

Virtual Session

# 9<sup>th</sup> World Chemistry Conference & Exhibition

Jun 24-25, 2026 at Barcelona, Spain (Hybrid Event)

## Join Zoom Meeting

Meeting ID: 876 0246 7619

Passcode: 0H4jSL



# 9<sup>th</sup> World Chemistry Conference & Exhibition



Jun 24-25, 2026 at Barcelona, Spain (Hybrid Event)

Day-2 Virtual (June 25)

09:00-09:20

**Title: Computational analysis of nucleophilic substitution reaction of phenyl carbonyl isothiocyanates with pyridines**

**Keshab Kumar Adhikary**, *Ghent University Global Campus, South Korea*

09:20-09:40

**Title: Determination of calcium isotopes by ozone reaction ICP-QMS/QMS**

**Yanbei Zhu**, *National Institute of Advanced Industrial Science and Technology, Japan*

09:40-10:00

**Title: Multifunctional DES-based sulphur-doped graphene quantum dots as antibacterial, antioxidant and fluorescent nano sensors for ultra-sensitive and -selective detection of carcinogenic chromium-VI**

**Muhammad Bilal Khan**, *Kaohsiung Medical University, Taiwan*

10:00-10:20

**Title: Importing Atomic Rare-Earth Sites to Activate Lattice Oxygen of Spinel Oxides for Electrocatalytic Oxygen Evolution**

**Xuan Wang**, *Nanjing Normal University, China*

10:20-10:40

**Title: Exploring the Therapeutic Potential of Thiazolone Derivatives for Breast Cancer Based on Network Pharmacology**

**Jiahui Cheng**, *Shanghai University of Sport, China*

10:40-11:00

**Title: Development of terpinen-4-ol/ $\beta$ -cyclodextrin liquid bandages with controlled release and antibacterial activity**

**Pairayaphak Ngamplang**, *Chulalongkorn University, Thailand*

11:00-11:20	<p><b>Title: Low temperature thermodynamic study of cadmium antimonide by means of the electromotive force measurement</b></p> <p>Aytakin Aghayeva, <i>French-Azerbaijani University, Azerbaijan</i></p>
11:20-11:40	<p><b>Title: Synthesis and structural characterization of novel palladium(II) 1,5-cyclooctadiene complexes of 5-fluorouracil</b></p> <p>Ceyda Icel, <i>Karadeniz Technical University, Turkey</i></p>
11:40-12:00	<p><b>Title: Synthesis and crystal structure of a polymeric silver(I) nitrate complex bearing 1,2-bis(4-pyridyl)ethane</b></p> <p>Veysel T. Yilmaz, <i>Karadeniz Technical University, Turkey</i></p>
12:00-12:20	<p><b>Title: Click chemistry of radiation transformations of bioorganic compounds: glucose/fructose</b></p> <p>Volodymyr Maslyuk, <i>Institute of Electronic Physics, Ukraine</i></p>
12:20-12:40	<p><b>Title: Homocysteine – from neglected biomarker to central pathogenic link in medicine</b></p> <p>Nina Filip, <i>Grigore T Popa University of Medicine and Pharmacy Iasi, Romania</i></p>
12:40-13:00	<p><b>Title: State-of-the-art polyoxometalate-based porphyrinic metal-organic frameworks for heterogeneous catalysis</b></p> <p>Arash Ebrahimi, <i>Comenius University Bratislava, Slovakia</i></p>
13:00-13:20	<p><b>Title: Advancing food safety and bioactive recovery through Pressurized Liquid Extraction (PLE): from mineral oil contaminants to phenolic compounds</b></p> <p>Laura Barp, <i>University of Udine, Italy</i></p>

13:20-13:40	<p><b>Title: Photocytotoxic potential of selected topically applied cosmetic ingredients</b></p> <p>Agnieszka Gunia-Krzyżak, <i>Jagiellonian University Medical College, Poland</i></p>
13:40-14:00	<p><b>Title: Conversion of Waste Biomass into Tailored Activated Chars: Catalytic Reforming, Adsorption, and Electrochemical Applications</b></p> <p>Katarzyna Januszewicz, <i>Gdansk University of Technology, Poland</i></p>
14:00-14:20	<p><b>Title: Catalytic potential of SrTiO<sub>3</sub>-based materials modified with selected d-block metals</b></p> <p>Ewa Drozd, <i>AGH University of Krakow, Poland</i></p>
14:20-14:40	<p><b>Title: Expanding the Reactivity Landscape of Hypervalent Iodine Reagents</b></p> <p>Maria Manuel B. Marques, <i>NOVA School of Science and Technology, Portugal</i></p>
14:40-15:00	<p><b>Title: Degradation Pathways and Regeneration Response in PEM Water Electrolyzer Assemblies: Combined Effects of Membrane Type and Catalyst Chemistry</b></p> <p>Verónica Díaz, <i>Facultad de Ingenieria, Uruguay</i></p>
15:00-15:20	<p><b>Title: Catalyst Development and Device Validation for Chemicals and Fuel Production</b></p> <p>Thuy-Duong Nguyen-Phan, <i>National Energy Technology Laboratory, United States</i></p>
15:20-15:40	<p><b>Title: Variations in lignin content deposited in the Congo fan and oxidative camouflaging of terrigenous organic matter in marine settings</b></p> <p>Louis C. Bondurant, <i>Old Dominion University, United States</i></p>

**Closing the Day**





WE WISH TO SEE YOU AGAIN AT  
**10<sup>th</sup> World Chemistry  
Conference and Exhibition (WCCE 2027)**

June 23-24, 2027 at Paris, France (*Hybrid Event*)

W: URL: <https://worldchemistry.org/> E: [Alex\\_greenSPAN@worldchemistry.org](mailto:Alex_greenSPAN@worldchemistry.org)

 +1-408-465-0048 |  +1-408-352-1010



**INNOVINC INTERNATIONAL**

USA: 5201 Great America Pkwy #320, Santa Clara, CA 95054, USA Ph: +1-408-465-0048