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12 YEARS OF SERVICE EXCELLENCE

Carbon-2026
October 19-21, 2026 | Valencia, Spain

PROGRAM

6th International Conference on

Carbon Chemistry and Materials

October 19-21, 2026 | Valencia, Spain | Hybrid

Barcelo Valencia Hotel
Avenida de Francia 11, 46023
Valencia, Spain

Join Zoom Meeting:
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Meeting ID: 814 8486 0582
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DAY-01
IN-PERSON

Monday, October 19, 2026 | Valencia, Spain | Hybrid

Meeting Room: Celeste II

8.30-9.00 Registrations and Badge Pickup
9.00-9.15 Opening Remarks

Keynote Presentations

Chair: Rasmus Palm

9:15-9:55
Abderrazzak Douhal, University of Castilla La Mancha, Spain
Deciphering the Photophysical Properties of COFs- and HOFs-Based Luminescent Materials

9:55-10:30
Sanjay Wahal, Founder and President, Decarbonization, LLC, USA
Mycelium-Based Biomaterials - A Robust Material Platform Sustainable Alternatives to Fossils

10:30-11:00 **Coffee & Networking** **@Foyer**

11:00-11:35
Mohamed Bouaziz, University of Sfax, Tunisia
From Olive Agro-Residues to Advanced Carbon Materials: Innovative Nanomaterials for Sustainable Environmental Technologies

11:35-12:10
Mohini M. Sain, University of Toronto, Canada
Carbon Lattice Defects Single Atom Decoration Research of Meta-carbon Materials: Insights and Technology Opportunities

Special Session ("CO_2 Capture & Utilization")

Chairs: Guillermo Díaz-Sainz & Sara Patricia Azerrad

12:10-12:35 **Walter Eevers**, European Innovation Council, Belgium
EU perspectives on the ABC of Carbon

12:35-13:00 **Guillermo Díaz-Sainz**, University of Cantabria, Spain
Bridging Lab to Pilot: Continuous CO_2 Electroreduction for Formic Acid and Formate Production

13:00-14:00 **Group Photo & Networking Lunch** **@Restaurant**

14:00-14:25 **Jaz Pieterse**, TNO (Netherlands Organisation for Applied Scientific Research), Netherlands
Designing Resilient Catalyst–Sorbent Systems for Next Generation Flexible Sorption-Enhanced CO_2 Hydrogenation Processes

14:25-14:50 **Georg Locher**, Schwenk Building Materials Group, Germany
CO_2, Energy and H_2 Requirements for CCU – A Simple Breakdown of the Energy Math

14:50-15:15 **Sanjay Wahal**, Founder and President, Decarbonization, LLC, USA
Captured—but then What? From CO_2 Capture to a Circular Carbon Economy

15:15-15:40 **Abdulkadir Bozarslan**, Tomas Bata University in Zlin, Czech Republic
Amine-Based Shaped CO_2 Solid Sorbents for Carbon Capture

Featured Presentations

15:40-16:05 **Heinz Peter Berg**, Brandenburg University of Technology, Germany
Functional Carbon Modifications as Key Fusion Body Components within a Highly Flexible Material Programmed Inertial Confinement Fusion (MP-ICF) Power Plant

16:05-16:30 **María Pilar de la Cruz Manrique**, University of Castilla-La Mancha, Spain
Challenges of Molecular Design of Materials Based on DPP for Solar Devices

16:30-17:00 **Ad-Hoc Workshop**

Heinz Peter Berg, Brandenburg University of Technology, Germany
MP-ICF and Specially Doped Nanographite Architectures

17:00-18:00 **Posters & Networking Drinks** **@Foyer**

Yulian Zagranyarski, Sofia University St. Kliment Ohridski, Bulgaria
Controlled Functionalization of the 1,8-Naphthalimide Core with Weak Nucleophiles: A Versatile Approach to Fluorescent π-Conjugated Systems

Monika Mutovska, Sofia University St. Kliment Ohridski, Bulgaria
Design and Synthesis of π-Conjugated Indolocarbazole Derivatives as Functional Organic Materials

Ranulfo Martins Carneiro Neto, Federal University of Rio de Janeiro - Polytechnic Institute, Brazil
Effect of Halloysite Nanotubes on the Mechanical and Thermal Performance of Epoxy and Bio-based Polyurethane Adhesives

Jonathan Berg, VTT Technical Research Centre of Finland Ltd., Finland
Kraft Lignin Fractionation Enables Structure–property Control in Hard Carbon Anodes for Sodium-ion Batteries

Carmen Morant Zacarés, Autonomous University of Madrid, Spain
When Carbon Reinvents Conversion-type Anodes: Reactivation in Nanocomposite Systems

Marc Lopez-Molla, University of Valencia, Spain
Wet-chemical Synthesis of Covalently Bonded Graphene–NiFe Layered Double Hydroxide 2D Heterostructures

Simona Petrescu, Ilie Murgulescu Institute of Physical Chemistry, Romania
Optimizing Nanofiller Layouts in Heat Storage Materials

19:30-21:00 **Networking Dinner (Ticket Required)** **@Restaurant**

End of Day-1

DAY-02

IN-PERSON

Tuesday, October 20, 2026 | Valencia, Spain | Hybrid

Meeting Room: Celeste II

Keynote Presentation

Chair: **Puja Dey**

9:30-10:05
Yanfeng Yue, Delaware State University, USA
Free-Standing Carbon Pellicles: Electrospinning Synthesis and Application for Energy Storage

Featured Presentations

10:05-10:30 **Ranulfo Martins Carneiro Neto**, Federal University of Rio de Janeiro - Polytechnic Institute, Brazil
Evaluation of Mode II Fracture Energy in Adhesively Bonded CFRP Laminates with Quad and Double-Double Layups

10:30-10:55 **Rasmus Palm**, University of Tartu, Estonia
Hydrogen Confinement in Ordered Porous Structures of Templated Carbon Materials

10:55-11:25 **Coffee & Networking** **@Foyer**

11:25-11:50 **Sara Patricia Azerrad**, Shamir Research Institute, Israel
Engineered Biochar from Olive Mill Solid Waste as a Tunable Carbon Platform for PFAS Removal from Water

11:50-12:15 **Matteo Andrea Lucherelli**, University of Valencia, Spain
Carbon Nano Onions as Versatile Platform for Cancer Therapy, from Photophysical Properties to the Cells

12:15-12:50 **Elena Maria Anghel**, Ilie Murgulescu Institute of Physical Chemistry, Romania
GO-Enhanced Phase Change Composites for Thermal Management and Storage Applications

12:50-13:50 **Group Photo & Networking Lunch** **@Restaurant**

13:50-14:15 **Daniele Brighenti**, Politecnico di Milano, Italy
Bio-based Pyrone–Pyrrole Esters as Coupling Agents: A Novel Strategy for Grafting Reactive Moieties onto Carbon Black

14:15-14:40 **Puja Dey**, Kazi Nazrul University, India
Innovation in Topological Insulator based heterostructures for Room Temperature, Low Noise, Broad Band Infrared Photodetector Applications

14:40-15:05 **Nina Kaneva**, University of Sofia, Bulgaria
Sonochemically Synthesized Pure and Gd_2O_3-Modified ZnO Nanoneedles for Enhanced Degradation of Paracetamol

15:05 **Coffee & In-Person Departures**

End of Day-2

DAY-03
VIRTUAL

Wednesday, October 21, 2026 | Valencia, Spain | Hybrid

Time zone: CEST

Featured Presentations

Chair: Alvie Lo Sin Voi

10:00-10:10 AV Check and Introduction

10:10-10:35 **Juqin Zeng**, Polytechnic University of Turin, Italy
High Surface Area Catalysts for Enhanced Electrochemical CO_2 Reduction

10:35-11:00 **Elaheh Mohebbi**, Marche Polytechnic University, Italy
An Experimental and Theoretical Study on Electronic Properties of Self-Assembled 1,4 Phenylene Diacrylic Acid on Bilayer Graphite

11:00-11:25 **Iveta Varnagiryte-Kabasinskiene**, Lithuanian Research Centre for Agriculture and Forestry, Lithuania
Ecosystem Carbon and Nutrient Dynamics in Pinus Sylvestris Forests After Clear-cutting in The Baltic Region

11:25-11:50 **Dmitri Kilin**, North Dakota State University, USA
DICA: Defect Induced Amplification of Chirality in SWCNT

11:50-12:15 **Gil Alberto Batista Gonçalves**, University of Aveiro, Portugal
Advanced Carbon Nanocapsules for Neutron Cancer Therapy

12:15-12:40 **Alvie Lo Sin Voi**, University of Malaysia Sabah, Malaysia
Charge Transfer and Electron Injection Kinetics of Conjugated versus Non-Conjugated Porphyrin Sensitizers on TiO_2

12:40-13:05 **Cristina Martin Alvarez**, University of Castilla La Mancha, Spain
The Next Era of Photophysics and its Emerging Materials and Paradigms

End of Day-3

We wish to see you at
CCM-2027
October, 2027 | Rome, Italy

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#8105 Rasor Blvd, Suite 112, PLANO, TX 75024, USA
Tel: +1-469-854-2280/81; **Fax:** +1-469-854-2278;
Email: carbon@uniscigroup.org;
Web: https://carbon.unitedscientificgroup.org/