

GRCRESD2024

CONFERENCE PROGRAM

a month

Global Research Conference on RENEWABLE ENERGY AND SUSTAINABLE DEVELOPMENT

September 23-25, 2024 | Munich, Germany

Day 01: Monday, September 23, 2024

9:00-09:15	REGISTRATIONS	
09:15-09:35	Opening Lecture at Meeting Room Conference Chair: Ralph Kennel, Technical University of Munich, Germany Conference Co-Chair: Friedrich Grimm, RES-Institute, Germany	
09:35-10:20	Title: "How Can Predictive Control Support the Use of Renewable Energy Sources"	Р
	Ralph Kennel, Technical University of Munich, Germany	
10:20-11:05	Title: "Quantum Mechanically Effective Device for Permanent Magnetic Plasma Confinement in a Fusion Reactor"	Р
	Friedrich Grimm, RES-Institute, Germany	
11:05-11:20	COFFEE BREAK - FOYER	
11:20-12:05	Title: "Bicarbonate-based Microalgal Cultivation for Efficient Carbon Fixation and Biorefineries"	Ρ
	Lee Duu-Jong, City University of Hong Kong, Hong Kong	
12:05-12:50	Title: "Key Technologies for the Innovative Solar Driven Heating and Cooling Systems"	Ρ
	Xudong Zhao, University of Hull, UK	
12:50-13:00	GROUP PHOTO	
13:00-14:00	LUNCH BREAK - RESTAURANT	
14.00 14.25	Title: "Renewable Energy Park for District Heating"	к
14:00-14:35	Jes Donneborg, Aalborg CSP, Denmark	
14:35-15:10	Title: "Affordability is the Focus of the Near Zero Energy Houses"	К
	Mark Bomberg, Clarkson University, USA	
Session 01	RENEWABLE AND RECYCLABLE ENERGY	
	WIND ENERGY, CLEAN ENERGY	
15:10-15:35	Title: "Explanatory Analysis and Machine Learning for City-Scale EV Charging Demand Prediction"	I
	Arbel Yaniv, Tel Aviv University, Israel	

15:35-16:00	Title: "Proton Fast Ignition as a Path to Commercial Fusion Energy"	I
	Wolfgang Theobald, Focused-Energy GmbH, Germany	
16:00-16:15	COFFEE BREAK - FOYER	
16:15-16:40	Title: "Overcoming Barriers to the Application of Sustainable Aviation Fuels: a Production and Certification Perspective"	I
	Xinran Luo, Beihang University, China	
16:40-17:05	Title: "Infrasound and Wind Turbines"	
	Frank Kameier, Duesseldorf University of Applied Sciences, Germany	I
17:05-17:30	Title: "Navigating the Transition to Green Hydrogen: Sustainability Challenges and Opportunities"	I
	Lydia Maketo, Technical University of Munich, Germany	
END OF DAY 1		

Day 02: Tuesday, September 24, 2024

09:00-09:35	Title: "Energy Scenarios for Austrian Industry towards Climate Neutrality"	К
	Andreas Windsperger, Vienna University of Technology, Austria	
09:35-10:10	Title: "Sustainable Energy by Waves Trap or Hydroelectric at Sea"	K
	Giulio Teodoro Maellaro, GECO S.R.L., Italy	
10:10-10:45	Title: "Waste Plastics Conversion to Hydrogen by Pyrolysis and in Line Catalytic Steam Reforming"	K
	Gartzen Lopez, University of the Basque, Spain	
10:45-11:00	COFFEE BREAK - FOYER	
Session 02	HETEROGENEOUS CATALYSIS	
	CATALYSIS FOR RENEWABLE SOURCES	
11:00-11:25	Title: "Highly Pure Hydrogen Production via Intensified Bio- oil Sorption-Enhanced Steam Reforming over Wastes-Driven- Stabilized CaO-NiO Bifunctional Materials"	1
	Eslam Elsaka, Université Laval, Canada	

11:25-11:50	Title: "Ru/CeO ₂ -Al ₂ O ₃ Based Materials as Efficient Catalysts for Ammonia Synthesis: A Kinetic Analysis"	I
11:50-12:15	Javier Arroyo-Caire, Universidad Loyola Andalucia, Spain	
	Title: "Enhanced Phenol Degradation via Sonication-Activated PMS and CoCr ₂ O ₄ Nanoparticles: Efficiency and Degradation Mechanism"	I
	Delvin Aman, Egyptian Petroleum Research Institute, Egypt	
	ENVIRONMENTAL IMPACT AND SUSTAINABILITY, SUSTAINABLE DEVELOPMENT	
Session 03	ENERGY CONVERSION AND STORAGE	
	POWER AND ENERGY ENGINEERING	
12:15-12:40	Title: "Triboelectric Nanogenerator for Sustainable and Renewable Energy: Tribo-Material, Surface Structure and Applications"	I
	Chung Chen Kuei, National Cheng Kung University, Taiwan	
12:40-13:05	Title: "Disrupting the Status Quo: Reconfigurable Batteries"	
12.40-13.03	Manuel Kuder, BAVERTIS GmbH, Germany	
13:05-14:00	LUNCH BREAK - RESTAURANT	
14:00-14:25	Title: "From Waste to Wonder: How Biochar can Change our Environment, Human Health, and Animal Welfare"	I
	Juliana Schultz, Federal University of Parana, Brazil	
14:25-14:50	Title: "Title: A Regional Lens for Renewable Energy Scenarios using CEVESA Model: The Case of Portugal"	I
	Tiago Miguel, University of Aveiro, Portugal	
P001	Title: "The Effect of Varying the Air Flow Velocity in a Solar Air He Dryer Performance Under No Load Conditions"	eater on
	Bhanudas B.Takale, BITS Pilani- K.K Birla Goa Campus, India	
P002	Title: "Polymer-Confined Pyrolysis Promotes the Formation of Ult Single-Phase High-Entropy Alloys: A Promising Electrocatalyst for Oxidation of Nitrogen"	
	Hele Guo, KU Leuven, Belgium	
	END OF DAY 2	

Day 03: Wednesday, September 25, 2024 London Time Zone (GMT+1)

VIRTUAL PRESENTATIONS		
09:00-09:25	Title: "Prediction Model of Photocatalytic Hydrogen Production Based on Machine Learning and the Interactive Interface Design"	I
	Yan Yang, University of Shanghai for Science and Technology, China	
09:25-09:50	Title: "Hydrogen Production Characteristic and Heavy Metal Migration Mechanism of Super-accumulated Plants Gasification in Supercritical Water"	I
	Liu Shanke, Shanghai Jiao Tong University, China	
09:50-10:15	Title: "The Use of Smart Apps to Promote Energy-Saving: Householders' Response and Behavioural Change in Hong Kong (A Case Study of New Territories East District)"	I
	Lam Hin Shun Thomas, Hong Kong Baptist University, Hong Kong	
10:15-10:40	Title: "Life Cycle Environmental and Economic Benefit Analysis of Sustainable Aviation Fuel Based on Cellulosic Biomass"	I
	XiaoJun Yang, Civil Aviation University of China, China	
10.40 11.05	Title: To be Updated	I
10:40-11:05	So Stuart, University of Exeter, UK	
11:05-11:30	Title: "Preserving Cultural Diversity in Rural Africa Using Renewable Energy"	I
	Emil Roduner, University of Stuttgart, Germany	
11:30-11:55	Title: "Mixing Induced Advanced Oxidation Process: CFD Simulations and Experimental Measurement"	1
	Arijit Ganguli, Ahmedabad University, India	
11:55-12:40	Title: "What, Why and How Hydrogen Production using Functional Nanomaterials"	Р
	Tokeer Ahmad, Jamia Millia Islamia University, India	

12:40-13:05	Title: "Application of Artificial Intelligence for the Development of New Materials in Green Hydrogen Production"	1
	Enio Pontes de Deus, Federal University of Ceará, Brazil	
	Title: "Greenhouse Gases as Sustainable Feedstocks"	P
13:05-13:50	Chao-Jun Li, McGill University, Canada	— Р
	Title: "Calixarene Based Nanocomposite Membranes for Clean Energy and Clean Water Applications"	Р
13:50-14:35	(Neal) Tai-Shung Chung , National University of Singapore, Singapore	F
	Title: "The Novel Hyperfusions without the Coulomb Barrier and Their Industrial Realization"	Р
	Ruggero Maria Santilli, Hadronic Technologies Corporation, USA	
	Title: To be Updated	
15:20-15:45	Maria C Iliuta, Université Laval, Canada	
15:45-16:30	Title: To be Updated	Р
	Chao-Jun Li, McGill University, Canada	
END OF THE CONFERENCE		

2nd Global Research Conference on RENEWABLE AND SUSTAINABLE ENERGIES

December 04-06, 2025 Milan, Italy UPCOMING IN **2025**



