

The Second International Conference on Chemical Sciences

August 27 – 30, 2024

Location: The Reed Hotel, Ninh Binh

OFFICIAL CONFERENCE AGENDA – ICCS 2024

Tuesday, August 27th, 2024

16h30 – 18h00 Registration & Welcome soft-drink

Wednesday, August 28th, 2024

08:00 – 08:30 Registration

08:30 – 09:00 Opening Ceremony (Van Long Hall)

- Welcome speech by Prof. Jean-Marc LAVEST – Principal Rector of USTH
- Welcome speech by Representative of the Organizing Committee

09:00 – 11:55 Plenary Session I (Van Long Hall)

Chairman: Dr. Vincent Artero

09:00 – 09:45 Keynote 1: Prof. Licheng Sun – Westlake University, China

Title: Water Splitting Catalysis — from Natural to Artificial Photosynthesis

09:50 – 10:35 Keynote 2: Prof. T. Randall Lee – University of Houston, USA

Title: Photonic Nanoparticles for Hydrogen Production and Biosensing

10:35 – 10:45 Group photo

10:45 – 11:10 Coffee break

11:10 – 11:55 Keynote 3: Dr. Marie Carrière – CEA Grenoble, France

Title: Nanoparticle Toxicity: After 20 Years of Research, Where Are We?

12:00 – 13:30 Lunch

13:30 – 15:05

Panel 1 & 2

Panel 1: Chemistry for Energy Conversion & Storage (Room: Van Long 1)

Chairman: Assoc. Prof. HanSen Soo

Panel 2: Chemistry for Environment Analysis & Treatment (Room: VIP Room)

Chairman: Dr. Nguyen Duc Anh

13:30 – 14:00 Invited speaker 1: Dr. Dinh Cao Thang (Queen's University)

Title: Pulse Electrolysis for Stable Electrochemical CO₂ Conversion

Invited speaker 6: Prof. Andreas Terfort (Goethe University Frankfurt)

Title: Electrochemical Fabrication of Biosensors

14:00 – 14:30 Invited speaker 2: Dr. Tran Ngoc Huan (Collège de France)

Title: Cu-based Catalysts for Selective CO Electroreduction to Multi-Carbon Products at High Current Density

Invited speaker 7: Dr. Nguyen Thi Thu Ha (Hanoi National University of Education)

Title: Utilizing Computational Chemistry Approaches for Investigating Photocatalytic Reactions

14:30 – 14:50 Oral 1: Prof. Pham Minh Doan (Université de Toulouse)

Title: CO₂-FTS Over Modified CO/TiO₂ Catalysts for the Production of Alternative Fuels

Oral 12: Assoc. Prof. Nguyen Thi Tuyet Mai (Hanoi University of Science and Technology – HUST)

Title: Hybrid Materials Based on Gold Nanorods and Molecularly Imprinted Polymer for Specific and Sensitive Detection of Organic Contaminants by Surfaced-Enhanced Raman Spectroscopy (Sers)

14:50 – 15:10 Oral 2: Dr. Nguyen Ngoc Duc (USTH)

Title: Design and Construction of a Measurement Cell to Improve Raman Spectroelectrochemical Signal of MoS₂

Oral 13: Dr. Nguyen Thu Phuong (Institute for Tropical Technology, VAST)

Title: The Ability of CO₂ Adsorption of Superparamagnetic Iron Oxide Nanoparticles/Copper Benzene-1,3,5-Tricarboxylate Composite

15:10 – 15:30 Coffee break

15:30 – 17:00

Panel 3 & 4

Panel 3: Chemistry for Energy Conversion & Storage (Room: Van Long 1)

Chairman: Dr. Dinh Cao Thang

Panel 4: Chemistry for Environment Analysis & Treatment (Room: VIP Room)

Chairman: Prof. Andreas Terfort

15:30 – 16:00 Invited speaker 3: Assoc. Prof. HyukSu Han (Sungkyunkwan University)

Title: Cost-effective Material Design and Engineering Toward Practical Proton Exchange Membrane Electrolysis

Invited speaker 8: Dr. Cuong Cao (Queen's University Belfast)

Title: Gold Nanozymes for Mercury Ions (Hg²⁺) Detection in Water Samples

16:00 – 16:20 Oral 3: Dr. Nguyen Dinh Chuong (The University of Da Nang)

Title: Rh-Doped Cu₃Mn₃P Nanorods Supported on Three-Dimensional Framework as a Self-Standing Electrocatalyst for Hydrogen Evolution Reaction

Invited speaker 9 (16:00 – 16:30): Assoc. Prof. HanSen Soo (Nanyang Technological University)

Title: Vanadium Photocatalyzed Upcycling of Non-Biodegradable Plastics

16:20 – 16:40 Oral 4: Dr. To Hai Tung (USTH)

Title: Molecular Catalysts Based on Cobalt and Nickel Complexes for Hydrogen Evolution Reaction

Oral 14 (16:30 – 16:50): Dr. Nguyen Van Thinh (Hiroshima University)

Title: Biodegradation of Polyester-Based Plastics in Blue-Carbon Ecosystems in Asia

16:40 – 17:00 Oral 5: Mr. Hoang Anh Tuan (USTH)

Title: Investigation on Hydrogen Evolution Reaction Mechanism of Some Selected Molybdenum Complexes

Oral 15 (16:50 – 17:10): Ms. Lai Phuong Mai (USTH)

Title: Electrochemical Sensors of PEDOT – based Molecularly Imprinted Polymer for Chloramphenicol Detection

17:00 – 17:45 Poster section

Chairmen and Evaluators: Prof. Licheng Sun, Dr. Vincent Artero, Prof. HeonJoong Kang

18:00 – 20:30 GALA DINNER (VAN LONG RESTAURANT, THE REED HOTEL)

Thursday, August 29th, 2024

08:00 – 10:40

Panel 5 & 6

	Panel 5: Chemistry for Energy Conversion & Storage (Room: Van Long 1) Chairman: Dr. Tran Ngoc Huan	Panel 6: Chemistry of Natural Products and Chemistry for Healthcare (Room: VIP Room) Chairman: Dr. To Hai Tung
08:00 – 08:30	Invited speaker 4: Assoc. Prof. Virginie Viallet (Université de Picardie Jules Verne) <i>Title: Argyrodite and Halide Based All-Solid-State Lithium Batteries</i>	Invited speaker 10: Prof. Yutaka Ukaji (Kanazawa University) <i>Title: Total Synthesis of Regioselectively ¹⁵N-Labeled Trapyrrole Chromophores</i>
08:30 – 09:00	Invited speaker 5: Dr. Tran Ngoc Quang (Vietnam National University, Ho Chi Minh City) <i>Title: 3D Multi-Metallic Metal-organic Framework Nanosheet Arrays for Overall Natural Seawater Splitting</i>	Invited speaker 11: Dr. Le Hong Luyen (USTH) <i>Title: Potential Antiaggregatory and Anticoagulant Activity of Kaempferia Parviflora Extract and Its Methoxyflavones</i>
09:00 – 09:20	Oral 6: Dr. Doan Thi Luu Luyen (The University of Da Nang) <i>Title: Improved Performance of Lithium-Sulfur Battery via a Separator Coating Material based on Core-Shell C@Cu-Doped MoS₂ Nanofibers</i>	Oral 16: Dr. Nguyen Thanh Tung (Ho Chi Minh City University of Technology) <i>Title: A Quinoline-Typed Directing Group for Directed Arylation of C-H Bonds</i>
09:20 – 09:40	Oral 7: Mr. Tran Huu Ha (Quy Nhon University) <i>Title: Vapor Chamber Assisted Solid-State Reaction for The Synthesis of Bi₂(MoO₄)₃ Nanorods as a High-Pseudocapacitive Anode for Lithium-Ion Batteries</i>	Oral 17: Mr. Mai Van Hieu (Seoul National University) <i>Title: Molecular Networking-Guided Dereplicated Isolation of Phloroglucinols and Chalcon-Monoterpenes from Cleistocalyx Operculatus Buds</i>
09:40 – 10:00	Oral 8: Mr. Tran Thien Vu (USTH) <i>Title: Synthesis of CoNi-Based Nanomaterials as Bifunctional Electrocatalysts for Overall Water Splitting</i>	
10:00 – 10:30	Coffee break + Poster section	

10:30 – 12:00

Panel 7 & 8

	Panel 7: Chemistry for Energy Conversion & Storage (Room: Van Long 1) Chairman: Assoc. Prof. HyukSu Han	Panel 8: Chemistry of Natural Products and Chemistry for Healthcare (Room: VIP Room) Chairman: Dr. Nguyen Van Thinh
10:30 – 10:50	Oral 9: Dr. Luu Anh Tuyen (Vietnam Atomic Energy Institute) <i>Title: Enhancing The Catalytic Activity of Nano-Catalysts by Using Electron-Beam Irradiation</i>	Invited speaker 12 (10:30 – 11:00): Dr. Nguyen Minh Duc (Phenikaa University) <i>Title: Structural Basis of Antibiotic Tigecyclin Bound Mitoribosome Reveals the Potent Inhibitory Activity During Protein Translation in Human Mitochondria</i>
10:50 – 11:10	Oral 10: Ms. Vu Thi Trang (USTH) <i>Title: Investigate Solid-State Method to Synthesize BiVO₄ for Photoelectrochemical Water Splitting</i>	Oral 18 (11:00 – 11:20): Dr. Nguyen Hong Van (USTH) <i>Title: Lipid Nanoparticles for Enhancing the Therapeutic Effectiveness of Berberine</i>
11:10 – 11:30	Oral 11: Assoc. Prof. Nguyen Dinh Minh Tuan (The University of Da Nang) <i>Title: Development of MnO₂ Based Dual Electrocatalyst Towards Efficient Hydrogen Production and Glycerol Oxidation Applications</i>	Oral 19 (11:20 – 11:40): Ms. Vuong Dang Le Mai (Université Paris-Saclay) <i>Title: Degradation of Metal-Organic Framework Nanoparticle-Based Drug Delivery System: Comparative Study of NanoMIL-100</i>
11:45 – 13:00	Lunch	
13:30 – 16:30	Plenary Session II (Van Long Hall) Chairman: Prof. Licheng Sun	
13:30 – 14:15	Keynote 4: Dr. Vincent Artero – CEA Grenoble, France <i>Title: Photoelectrochemical Technologies for Solar Fuels Production: from Materials to Prototypes</i>	
14:15 – 15:00	Keynote 5: Prof. HeonJoong Kang – Seoul National University, Korea <i>Title: Marine Natural Products, an Untapped Resource for Innovative Drug Leads to Treat Human Diseases</i>	
15:00 – 15:30	Coffee break	
15:30 – 16:30	Closing Ceremony <ul style="list-style-type: none">• Poster award• Sponsors' Appreciation• Closing remarks	

Friday, August 30th, 2024

08:00 – 16:00

Social Activity (self-organized)