

충남대학교 Chungnam National University



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# 2022 International Symposium on Materials Chemistry

2022 소재화학연구소 국제학술대회

| 일시 | **2022년 10월 13일(목)**  
October 13th (Thursday) 2022

| 장소 | Natural Science Building 4 (W11-2),  
Room: 109

| 주관 | **충남대학교 소재화학연구소**  
Research Institute of Materials Chemistry,  
Chungnam National University

| 후원 | **충남대 화학물질특성분석 핵심연구지원센터**  
CNU Chemistry Core Facility  
**충남대학교 기초과학연구원**  
CNU Research Institute of Basic Sciences



## Invitation letter

It is my great pleasure and honor to welcome you all to the 2022 International Symposium on Materials Chemistry hosted by Research Institute of Materials Chemistry at Chungnam National University. This year the symposium will be held off-line with two sessions. The first session is about the chemistry in life science and the second session is about the chemistry in materials science. We have invited six international speakers from five different countries, such as Ethiopia, Iran, Philippines, Russia, and USA. I sincerely hope that the symposium will be a venue to discuss latest technologies, encourage joint activities, and contribute to scientific advances in various fields.

October 2022

Jeongkwon Kim, Ph.D.

Director of Research Institute of Materials Chemistry

**2022** International Symposium on Materials Chemistry  
Date: October 13th (Thursday) 2022  
Location: Natural Science Building 4 (W11-2), Room: 109

## Program

**13:30 – 14:00** Registration  
**14:00 – 14:10** Opening Remarks :  
Prof. **Sung Hi Choi** (*Dean, CNS*)  
Prof. **Jeongkwon Kim** (*Director, RIMC*)

### Session I

Chairperson : Prof. **Chang Woo Myung**  
(*Chungnam National University, Korea*)

**14:10 – 14:40** Dr. **Hyojik Yang**  
(*Department of Microbial Pathogenesis, University of Maryland, Baltimore, Maryland, USA*)  
"Culture-free analysis of Gram-negative bacterial lipid A by Mass Spectrometry"

**14:40 – 15:10** Prof. **Maryam Adelipour**  
(*Department of Biochemistry, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran*)  
"Mesenchymal stem cells and their exosome: sources, properties and potential application in regenerative medicine"

**15:10 – 15:40** Prof. **Denver Waitang**  
(*College of Agriculture, Fisheries and Forestry, Romblon State University, Romblon, Philippines*)  
"Proteome of ACC deaminase producing bacteria –mediated salt tolerance in rice(*Oryza sativa* L.)"

**15:40 – 16:00** Coffee Break

### Session II

Chairperson : Prof. **Ji-Hyun Cha**  
(*Chungnam National University, Korea*)

**16:00 – 16:30** Prof. **Lemma Teshome**  
(*Department of Applied Chemistry, Adama Science and Technology University, Adama, Ethiopia*)  
"Ni-Based Ultrathin Nanostructures for Overall Electrochemical Water Splitting"

**16:30 – 17:00** Prof. **Dong Hee Son**  
(*Department of Chemistry, Texas A&M University, USA*)  
"Excitons and hot electrons from strongly quantum confined perovskite nanostructures"

**17:00 – 17:30** Prof. **Liudmila L. Larina**  
(*Department of Solar Photovoltaics, Institute of Biochemical Physics, Moscow, Russia*)  
"Interface engineering in Cd-free Cu(In,Ga)Se<sub>2</sub> solar cells"

**17:30 – 18:00** Closing & Photo Time  
**18:00 – 20:00** Dinner