



## **15<sup>th</sup> Japan-China-Korea (JCK) Forum**

Co-host with:

**6<sup>th</sup> Global Conference: ESG Management & Sustainability  
(6<sup>th</sup> GCEMS)**

Co-organize by:

**Association of Pacific Rim Universities-  
Sustainable Waste Management (APRU SWM)**



# **Program Booklet**

November 28<sup>th</sup> to 30<sup>th</sup> , 2023

Korea University

SK Future Hall



### Forum Synopsis

The Japan-China-Korea Forum (JCK Forum) was established in 2008 as an annual international scientific conference focusing on educating students with varying research levels. The forum mainly involves universities from Asian countries and has been successfully held 14 times, receiving strong support from universities in Japan, China, and Korea. It serves as a platform for students to communicate and exchange knowledge. Forum sessions cover **[I] Environmental Pollution and Remediation, [II] Sustainable Resources & Waste Management, and [III] Agricultural Technology Advancement.**

The forum's objectives are to train participating students in academic presentation skills, improve organizational and communication abilities, and promote mutual understanding and international academic exchange among professors and students from different countries, universities, and institutes. This year, the 15th Forum, known as JCK Forum 2023, will be hosted by Korea University, co-hosted with the 6th Global Conference: ESG Management & Sustainability (6th GCEMS).

### Important Dates

Abstract Submission opens: August 2, 2023

Abstract Submission deadline: August 31, 2023

Registration deadline: September 15, 2023

Forum period: November 28 to 30, 2023

Official schedule

**6<sup>th</sup> Global Conference: ESG Management & Sustainability**

Date	[DAY 1] November 28 <sup>th</sup>		[DAY 2] November 29 <sup>th</sup>		[DAY 3] November 30 <sup>th</sup>		
Venue Time	SK Cheyjonghyun Hall		SK Cheyjonghyun Hall	SK Future Hall 512 & 513	SK Cheyjonghyun Hall	SK Future Hall 512 & 513	SK Future Hall 505
09:00 ~ 10:00	<b>Registration &amp; Networking Coffee</b>						<b>Nature MasterClass</b>  <i>* Invitation only</i>
10:00 ~ 10:40	<b>Opening / Keynote Speech</b>		<b>Conversation on Sustainability with the Chief Editors (NATURE) and Global Scholars</b>	<b>ESG Business Conference</b>	<b>Global ESG Lecture Series II</b>	<b>Sustainability Global Conference [15<sup>th</sup> JCK Forum]</b>	
10:40 ~ 12:00	<b>ESG Management</b>						
12:00 ~ 14:00	<b>Lunch &amp; Interactive Session [Poster Session &amp; ESG Special Exhibition]</b>						
	SK Cheyjonghyun Hall	SK Future Hall 512 & 513	SK Cheyjonghyun Hall	SK Future Hall 512 & 513	SK Cheyjonghyun Hall	SK Future Hall 512 & 513	SK Future Hall 505
14:00 ~ 15:20	<b>Climate Change and Biodiversity: TCFD &amp; TNFD</b>	<b>Sustainability Global Conference [15<sup>th</sup> JCK Forum]</b>	<b>Green Finance</b>	<b>Sustainability Global Conference [15<sup>th</sup> JCK Forum]</b>	<b>Sustainable Plastic Management I</b>	<b>Sustainability Global Conference [15<sup>th</sup> JCK Forum]</b>	<b>Nature MasterClass</b>  <i>* Invitation only</i>
15:20 ~ 15:50	<b>Networking &amp; Coffee Break [Poster Session &amp; ESG Special Exhibition]</b>						
15:50 ~ 17:00	<b>Strategy for Dealing with TNFD [S&amp;P Global Special Session]</b>	<b>Sustainability Global Conference [15<sup>th</sup> JCK Forum]</b>	<b>Global ESG Lecture Series I</b>	<b>Sustainability Global Conference [15<sup>th</sup> JCK Forum]</b>	<b>Sustainable Plastic Management II</b>	<b>APRU Sustainable Waste Management</b>	



## Participants

All professors and students in the universities and institutes of the three countries, as well as other countries in the world, are welcome as participants of the JCK Forum 2023, subject to registration.

## Registration fee

Registration will be 700 USD

## Forum size

Due to limited space and opportunities, an approximation for the total number of participants may not exceed 150 persons.

## Presentation

1. **Professor:** Serve as plenary speaker which presentation of 20 mins (including Q&A) and more can be allocated.
2. **Postdoc & PhD student/candidate:** 10 minutes (including Q&A) presentation
3. **MSc & undergraduate:** 5 minutes presentation + 2 mins Question & Answers.

\*All the speakers need to submit an abstract in advance, which will be included in the proceeding of “Abstracts Collection of JCK Forum 2023”.

## Sessions

Sessions	Code
I. <b><u>Environmental Pollution &amp; Remediation</u></b> - Pollution Control and Mitigation - Molecular and Applied Biology - Biodiversity, Evolution, and Genomics - Ecology and Physiology	S01
II. <b><u>Sustainable Resources &amp; Waste Management</u></b> - Energy/Resource Recovery and Reutilization - Environmental Policy, Assessment and Economics - Soil and Water Management	S02
III. <b><u>Agricultural Technology Advancement</u></b> - Bioresource Production - Biotechnology and Bioindustry - Mountain Science & Forestry	S03

\*The sub-themes for the three main sessions are not limited to those mentioned in the table above but can be freely categorized based on their relevance to your presentation.

## Forum Secretariat

Conference Email: [jck.15th@gmail.com](mailto:jck.15th@gmail.com)

**Juin Yau Lim**, Research Professor, Korea University, Korea

**Suho Han**, PhD Student, Korea University, Korea

**Jeongeun Hong**, Research Assistant, Korea University, Korea

## One-page Abstract

### General requirements

Authors should submit high quality abstracts in English. It should be able to explain the value of your topic, the purpose of writing, the main points of view, and research methods. It should highlight the creative results or new insights of this paper and retain the basic information of the paper as much as possible. The abstract submitted must be original, unpublished or not submitted to other publishers. All submissions will be blindly reviewed by experts in the field based on originality, importance, quality and clarity.

### Format requirements

1. The abstract should be submitted as an MS Word (.doc or .docx) document.
2. Adhere to one page with a simple format, consisting of a single paragraph without subheadings, indentations, or references.
3. It must be written in 12-point Times New Roman font, single-spaced, and comply with the word limit of 200-400 words.
4. Keywords (maximum 6 words) should be provided at the end of the abstract, leaving one line of space below the text.

**\*Please kindly refer the format attached for abstract preparation**

### Submission requirements

The abstract should be sent to the following email address with the attachment:

[jck.15<sup>th</sup>@gmail.com](mailto:jck.15<sup>th</sup>@gmail.com)

- Only electronic submission is accepted.
- Please name your word file submission as “**X\_Y\_JCK Forum 2023\_NAME**”.
  - For **X**: replace it with **P** (poster) or **O** (oral) based on your presentation preference.
  - For **Y**: replace it with the theme code (**S01**, **S02**, or **S03**) according to your presentation.
  - For **NAME**: replace it with your name

For example, **O\_S01\_JCK Forum 2023\_JUINYAULIM**



**Chair of the Forum**

**Prof. Yong Sik Ok**, Korea University, Korea

**Co-Chairs of the Forum (in alphabetical order)**

**Prof. Chuanping Feng**, China University of Geosciences (Beijing),  
China

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**Prof. Miao Li**, Tsinghua University, China

**Prof. Naoto Shimizu**, Hokkaido University

**Prof. Renjie Dong**, China Agricultural University, China

**Prof. Seung Won Kang**, University of Tsukuba, Japan

**Prof. Xianfang Song**, Institute of Geographic Sciences and Natural  
Resources Research, CAS, China

**Prof. Yu-You Li**, Tohoku University, Japan

**Prof. Zhenyao Shen**, Beijing Normal University, China



### Local Organizing Committee

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**Amasha Withana**, PhD Candidate

**Geonwook Hwang**, PhD Student

**Sachini Senadheera**, PhD Student

**Suho Han**, PhD Student

**Seong Ku Kwon**, Integrated Master & PhD Student

**Junhee Park**, Master Student

**Jeongeun Hong**, Research Assistant

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**Chen Nan**, Professor, China University of Geosciences (Beijing), China

**Lihu Yang**, Professor, Institute of Geographic Sciences & Natural Resources Research (CAS), China

**Linyu Xu**, Professor, Beijing Normal University, China

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**Yuanxun Zhang**, Professor, University of Chinese Academy of Sciences (UCAS), China

**Zhenyao Shen**, Professor, University of Chinese Academy of Sciences (UCAS), China

## Korea University



**고려대학교**  
KOREA UNIVERSITY

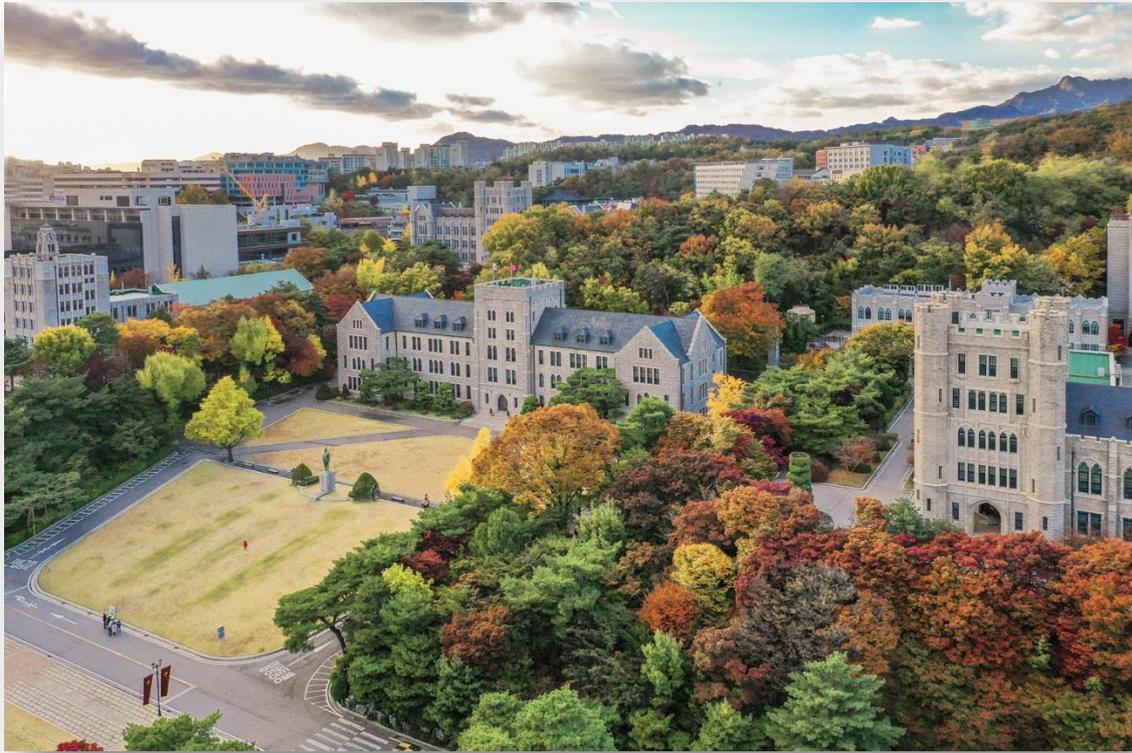
**Korea University**, founded in 1905, holds the distinction of being the nation's first university exclusively funded and administered by Koreans. Its establishment was driven by the visionary Lee Young-Ik, Treasurer of the Royal Household, who believed that education was the key to Korea's independence and future prosperity. Over a century later, the university remains committed to its founder's ideals, aiming to mold students into effective citizens dedicated to serving their nation and the world.

### Gallery:

➤ **Main Building of Korea University**



➤ **Bird's-eye view of main building**



➤ **SK Future Hall**



## nature masterclasses

- Exclusive chances for JCK participants to attend the **Nature Master Class!**  
**ONLY TWO** of the best abstract submission will be selected (for free)!



## Nature Reviews

- Nature Reviews is a portfolio of more than 20 journals, which are dedicated to publishing review and commentary articles in the clinical, life, physical, social, and earth sciences.
- These journals are renowned for their high-quality, comprehensive, and authoritative reviews.
- Nature Reviews journals aim to provide researchers, academics, and professionals with insightful and up-to-date analyses of key topics, emerging trends, and groundbreaking research in their respective fields.

### Websites:

1. <https://www.nature.com/siteindex>
2. <https://www.springernature.com/gp/librarians/products/journals/nature-research-journals/nature-reviews>



## Nature Climate Change

- Nature Climate Change publishes original research across the natural and social sciences and strives to synthesize interdisciplinary research.
- The journal follows the standards for high-quality science set by all Nature-branded journals and is committed to publishing top-tier original research in all areas relating to climate change.
- Nature Climate Change publishes cutting-edge research on the science of contemporary climate change, its impacts, and the wider implications for the economy, society, and policy.
- **Impact Factor = 32.440**

### Websites:

<https://www.nature.com/nclimate/>

## Bibliography of well-renowned Researcher

# Prof. Yong Sik Ok



Prof. Yong Sik Ok is a Distinguished Professor in the field of Environmental, Social, and Governance (ESG). Currently holding the position of President at the International ESG Association (IESGA) and serves as an HCR Professor at Korea University in Seoul, Korea. Prof. Ok's expertise extends to his role as the Director of the Sustainable Waste Management Program for the Association of Pacific Rim Universities (APRU SWM).

Recognized for his outstanding contributions, Prof. Ok has been honored as a Highly Cited Researcher (HCR) since 2018. In 2022, he achieved the remarkable distinction of being an HCR in three fields: Environment and Ecology, Engineering, and Biology and Biochemistry. This noteworthy achievement solidifies his place in history as the sole researcher to have received this recognition in these three ESI fields to date. Prof. Ok's impressive research portfolio includes publications in prestigious journals such as Nature (IF=63.581), Science (IF=59.937), Nature Reviews Earth and Environment (IF=37.212), Nature Sustainability (IF=28.224), and Environmental Science and Technology (IF=12.154).

### Websites:

1. [APRU Sustainable Waste Management Program](https://www.apru.org/programs/sustainable-waste-management)
2. <https://pure.korea.ac.kr/en/persons/yong-sik-ok-2>

# Prof. William Mitch



Prof. William Mitch is a highly esteemed scientist at Stanford University, currently holding a position in the Department of Civil and Environmental Engineering in the USA. Employing a fundamental understanding of organic chemical reaction pathways, his research explores links between public health, engineering, and sustainability.

Prof. Mitch's impressive research portfolio includes publications in prestigious journals such as Science (IF = 59.937), Nature Sustainability (IF=28.224), Water Research (IF=13.847), and the Environmental Science and Technology (IF=12.154). Further, he serves as an Editorial Board Member of the Chemosphere (IF=8.520) and Critical Reviews in Environmental Science and Technology (IF=13.237) Journals.

### Websites:

1. <https://cee.stanford.edu/people/william-mitch>
2. <https://scholar.google.com/citations?user=RQcNZ6QAAAJ&hl=en>

# Prof. Daniel S. Alessi



Prof. Alessi holds the esteemed position of Professor and Encana Chair in Water Resources at the Faculty of Science-Earth & Atmospheric Sciences, University of Alberta, Canada. His expertise lies in the field of surface chemistry of materials, biogeochemistry of metals cycling in water, soils, and sediments, as well as the water cycle in unconventional energy recovery.

As a testament to his distinguished standing in academia, Prof. Alessi is an Associate Editor for the renowned Science of the Total Environment journal (IF=10.237) and the Editorial Board Member of Biochar (IF=11.452). His research contributions have been published in highly esteemed journals, including Nature Reviews Earth and Environment (IF=37.214), Nature Geosciences (IF=20.473), and Nature Communications (IF=17.764).

## Websites:

1. <https://scholar.google.ca/citations?user=YhFEmpMAAAAJ&hl=en>
2. <https://apps.ualberta.ca/directory/person/alessi>

# Prof. Patryk Oleszczuk



Prof. Oleszczuk holds the distinguished position of Professor of Environmental Chemistry and serves as the Head of the Environmental Chemistry Department at Maria Curie-Skłodowska University, Poland. His areas of research interest encompass crucial fields, including Ecotoxicology and Environmental Chemistry, Nanoparticles in the Environment and biochar.

His research work has been published in reputed scientific journals, including Water Research (IF=13.847), Critical Reviews in Environmental Science and Technology (IF=13.237), and Bioresource Technology (IF=11.139). Prof. Oleszczuk serves as an Editor of Biochar (11.452) and the Associate Editor of the Chemosphere Journal (IF=8.520).

## Websites:

1. <https://scholar.google.com/citations?user=Qf8dMTUAAAAJ&hl=en>
2. <https://www.umcs.pl/en/addres-book-employee.2005.pl.html>

## Prof. Amir Amel-Zadeh



Prof. Amel-Zadeh, is a distinguished Professor at the Department of Finance & Accounting, Said Business School, University of Oxford, UK. He is also the Director of the Oxford Rethinking Performance Initiative, a member of the UK Endorsement Board, and the Academic Advisor at PanAgora Asset Management. His research examines the effects of companies' financial and non-financial information disclosures on capital markets and the mediating role of accounting standards and information intermediaries.

The findings of his research have been featured in prominent academic and practitioner journals, including the Journal of Accounting and Economics, The Accounting Review, Review of Accounting Studies, and Financial Analyst Journal. Furthermore, his contributions have garnered attention from respected business publications like the Financial Times and The Guardian, and have also been referenced in diverse policy documents by the European Union, the Bank for International Settlements, the International Monetary Fund, and the World Economic Forum.

### Websites:

1. <https://www.sbs.ox.ac.uk/about-us/people/amir-amel-zadeh>,
2. <https://www.sbs.ox.ac.uk/research/centres-and-initiatives/oxford-initiative-rethinking-performance>
3. <https://www.endorsement-board.uk/>, <https://www.panagora.com/insights/>

## Dr. Bruno Oberle



- Dr. Bruno Oberle is the Director General of IUCN (International Union for Conservation of Nature) since July 2020. He brings over 40 years of experience to IUCN at a time when redefining humanity's relationship with nature is more urgent than ever.
- He is a leading expert in the fields of sustainable resource management and green economy and has explored and shaped the interface between environmental policy, economic development, and social equity from the perspective of state regulator, entrepreneur and scientist.
- Prior to joining IUCN, Dr. Oberle served as Chair of the Green Economy and Resource Governance program at the École Polytechnique Fédérale de Lausanne (EPFL) from 2016, where he also headed the International Risk Governance Centre.
- Preceding his academic and government roles, he founded and managed companies in the fields of environmental consulting and environmental management.

### Websites:

1. <https://sdgs.un.org/panelists/dr-bruno-oberle-32866#:~:text=IUCN%20Director%20General,is%20more%20urgent%20than%20ever>.

## Prof. Michael S. Bank



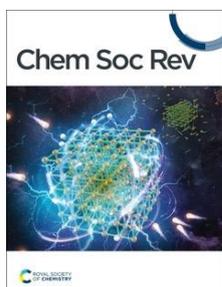
Prof. Bank is a Professor of Contaminant Biology at the University of Massachusetts Amherst and a Senior Scientist at the Institute of Marine Research, Norway. In addition, he is the Chairperson of the Society of Environmental Toxicology & Chemistry Global Mercury Working Group. His research is highly interdisciplinary and has its theoretical basis in Bayesian mathematical modeling, contaminant biology, environmental toxicology, and environmental governance.

The findings of his research have been featured in prominent academic journals, including *Science* (IF = 59.937), *Water Research* (IF=13.847), and *Environmental Science and Technology* (IF=12.154). Prof. Bank serves as an Editor of the *Environmental Pollution Journal* and is also an Editorial Board Member of the *Environmental Advances Journal*.

### Websites:

1. <https://eco.umass.edu/people/adjunct-faculty/bank-michael/>
2. <https://scholar.google.com/citations?user=7CZwWYwAAAAJ&hl=en>

## Prof. Carol S.K. Lin



Prof. Lin is a distinguished Professor at the School of Energy and Environment at the City University of Hong Kong. Her research focuses on technological advancement and the development of circular waste-based biorefinery for sustainable production of chemicals, materials, and fuels that contribute to the reduction of the environmental burden of waste disposal and enhancement of resource efficiency.

As a testament to her distinguished standing in academia, Prof. Lin serves as an Editor in the Green and Sustainable Science and Engineering Section of the *Chemical Engineering Journal*, and she also holds the position of Senior Editor at *Sustainable Environment*. Her research contributions have been published in highly esteemed journals, including *Chemical Society Reviews* (IF=51.2), *Renewable and Sustainable Energy Reviews* (IF=15.9) and *Water Research* (IF=13.847).

### Websites:

1. <https://www.cityu.edu.hk/see/people/prof-carol-lin>
2. <https://scholar.google.com/citations?user=8HrsYMkAAAAJ&hl=en>

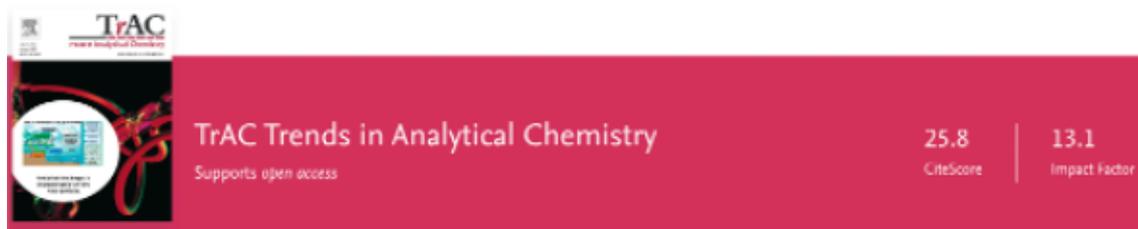


**Meet the Editor Session**

- **Prof. Yong Sik Ok:-** Co-Editor-in-Chief
  - Critical Reviews in Environmental Science and Technology (CREST)
  
- **Prof. Daniel Alessi:-** Associate Editor
  - Science of the Total Environment (STOTEN)
  
- **Prof. Patryk Oleszczuk:-** Associate Editor
  - Chemosphere
  
- **Prof. Michael S. Bank:-**Editor
  - Environmental Pollution

And many other prestigious journal editors as well!

## Potential Special Issue



15 January 2023

### **Microplastics in the terrestrial ecosystem: Analytical methods, hazards and pollution abatement**

Microplastics pollution has become a global environmental issue. Microplastic originate from anthropogenic activities in terrestrial ecosystem and have great potential impacts on human and ecosystem health. In recent years, there has been growing research interest on terrestrial microplastics, but further progress is needed to answer crucial questions related to this topic. Therefore, this special issue focuses on microplastics in soil, freshwater, and other terrestrial matrices. It will cover multiple research topics including analytical methodologies, pollution sources, environmental fate, ecotoxicology and health risks, as well as pollution control of terrestrial microplastics. Review papers covering above contents are welcomed in this special issue.

#### **Guest editors:**

[Defu He](#), East China Normal University, Shanghai, China

[Rachel Hurley](#), Norwegian Institute for Water Research, Oslo, Norway

[Luca Nizzetto](#), Norwegian Institute for Water Research, Oslo, Norway

[Yong Sik Ok](#), Korea University, Seongbuk-gu, Korea, South

#### **Manuscript submission information:**

This is an invitation only special issue. Only review article is considered for the special issue.

Please refer to the Guide for Authors to prepare your manuscript and select the article type of "VSI: Soil plastics" and request Editor of **Janusz Pawliszyn** when submitting your manuscript online. Both the Guide for Authors and the submission portal could be found on the Journal Homepage here <https://www.sciencedirect.com/journal/trac-trends-in-analytical-chemistry>

**Submission Deadline: Dec 31, 2023**

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