

Korea-EU Horizon Europe Researchers Networking Forum on Energy & Advanced Mobility

Moon Son

**Senior Researcher |
Associate Professor**

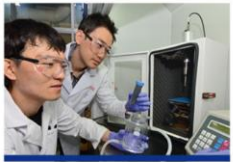
**Korea Ins. Sci. Technol. |
Univ. Sci. Technol., Korea**

Battery | Water | AI



1. Institute: Korea Ins. Sci. Technol.

- Founded as the first multidisciplinary government-funded research institute in Korea
- 10 Divisions, 4 Branches (Seoul, Gangneung, Jeonbuk, and Europe)



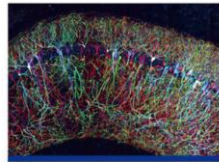
Climate and Environmental Research Institute



Biomedical Research Division



Advanced Materials Research Division



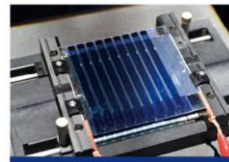
Brain Science Institute



Post-Silicon Semiconductor Institute



Artificial Intelligence and Robotics Institute



Clean Energy Research Division



Research Resources Division



KIST Gangneung Natural Products Institute



KIST Jeonbuk Advanced Composite Materials Institute

Personnel and Budget

※ As of Feb. 2021

* Personnel

Research Scientists
2,174



Admin. & Support Staff
430

* Budget

Government-Funded/
National Projects
191,640
million won



Commissioned Research
142,398
million won

- Goal: **World First** or **World Best**!

Overseas Centers

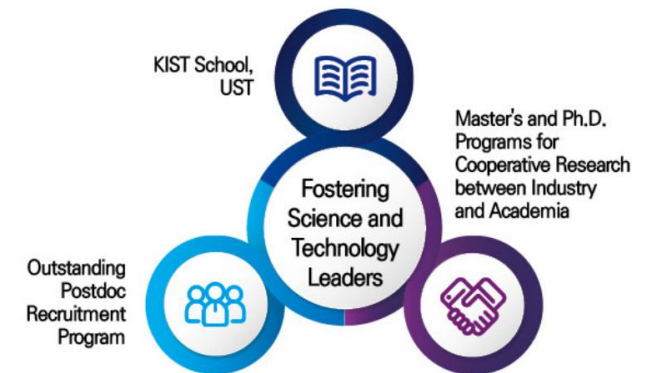
KIST Europe(Saarbrücken, Germany)
Indo-Korea Science and Technology Center
(Bangalore, India)

Laboratories

KIST-DFCI(Dana-Farber Cancer Institute / Boston, USA)



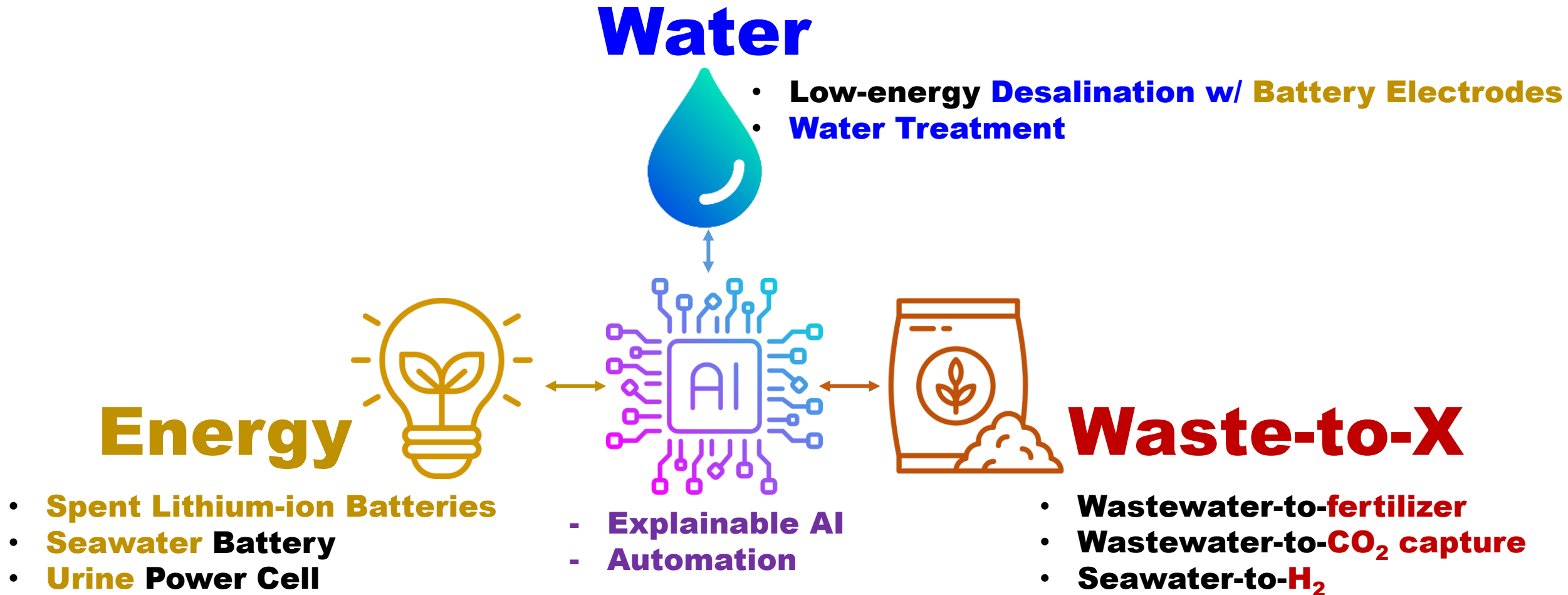
- UST (KIST School)



As of 2021



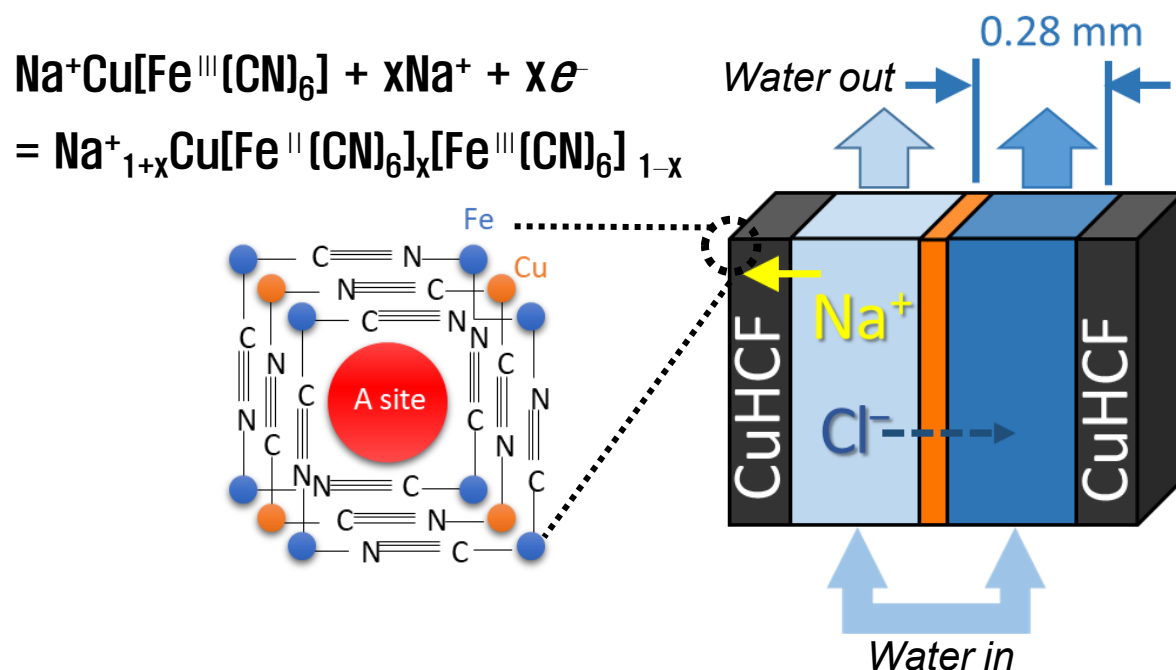
2. Expertise: Battery | Water | AI



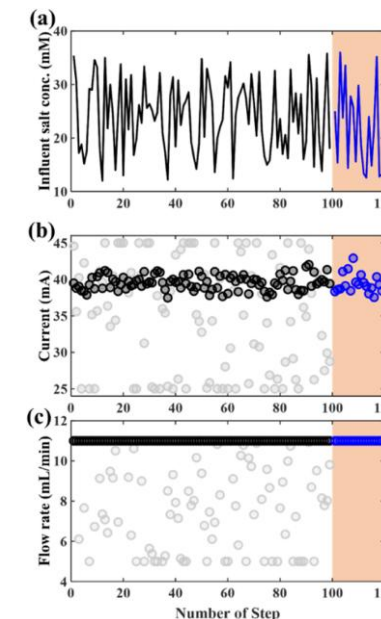
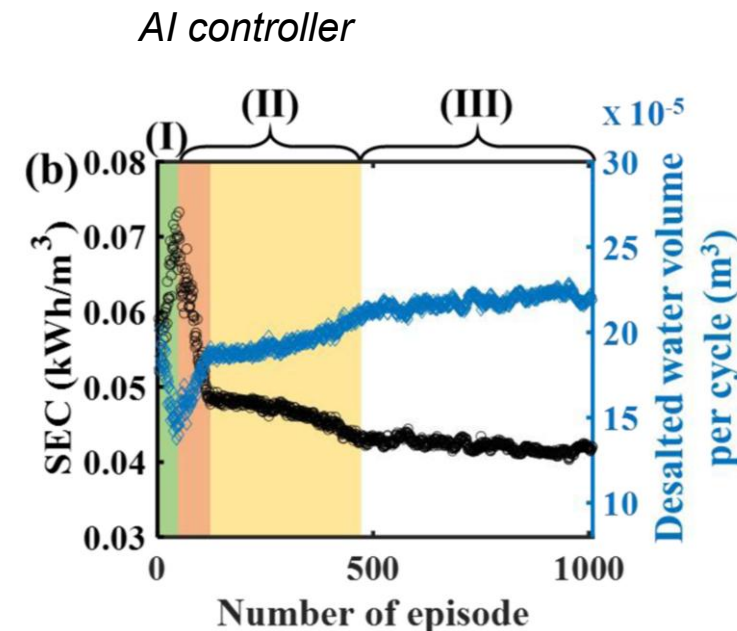
3. Project Idea: Battery to Water & AI

Targeted call: HORIZON-CL5-2026-03-D2-02: Development of direct recycling processes (BATT4EU Partnership)

Main objectives: Direct Recycling of Spent Battery Electrodes for Water Desalination & AI for Process Automation



Son et al., Environ. Sci. Technol., 2020



Yoon et al., Water Res., 2022



4. Wish to Join a Team

IF YOU ARE SEEKING SOMEONE EXPERTISE IN DIRECT BATTERY REPURPOSING OR AI

Targeted call: **HORIZON-CL5-2026-03-D2-02: Development of direct recycling processes (BATT4EU Partnership)**

Main objectives: **Direct Recycling of Spent Battery Electrodes for Water Desalination & AI for Process Automation**

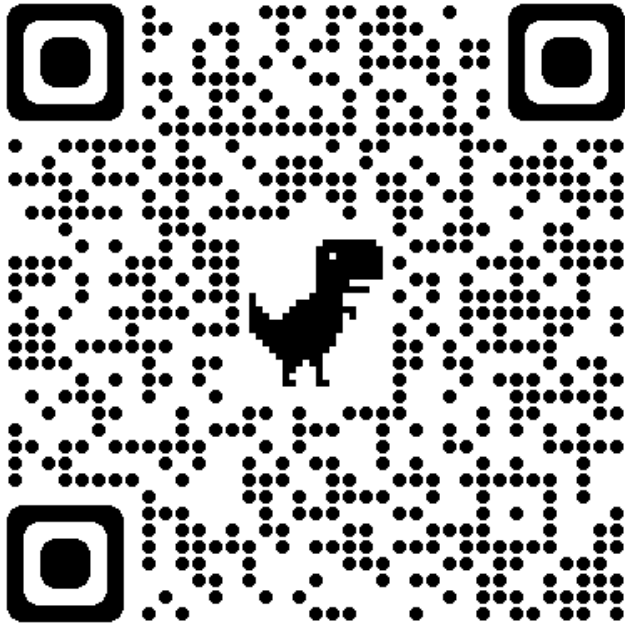
ALSO IF YOU ARE SEEKING SOMEONE HAS EXPERIENCE IN HORIZON EUROPE BEFORE

Selected call: **HORIZON-JU-CLEANH2-2025**

Role: Partner (PI) for applying **AI sensor** to monitor micropollutants (PFAS) during water electrolysis (H₂)



5. Contact Details



<https://sites.google.com/view/moonson>
<https://scholar.google.co.kr/citations?user=nPx7KdEAAAJ&hl=en>

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