



HANYANG UNIVERSITY

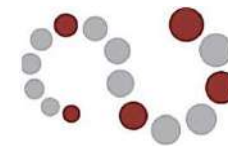
**UNIVERSITY OF
WOLLONGONG**



Research Collaboration between Australia and Korea



Creative Research Initiative Program
Center for Self-Powered Actuation



ARC Centre of Excellence for
**Electromaterials
Science**

Collaboration



University of Wollongong



Wollongong NSW, Australia



Hanyang University



Seoul, South Korea

Collaboration

Since 2005



University of
Wollongong

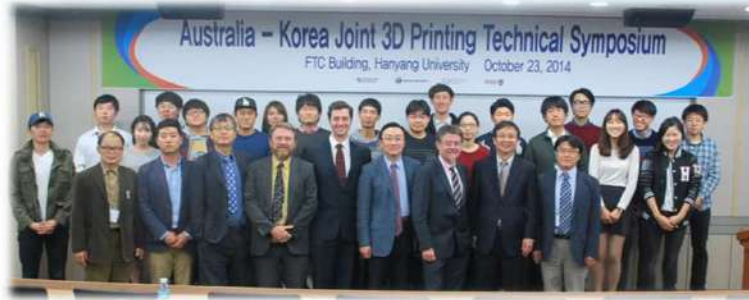
Hanyang
University



Collaborative Research



History of collaboration



2024
Australia-Korea
Research Collaboration

2020

- Strengthen partnership of 3D printing

2015

- Australia-Korea Joint 3D printing Technical Symp
- 7th World Congress on Biomimetics, Artificial Muscles and Nano-Bio
- SPIE Global Congress on Nanomedicine
- UOW-HYU Joint Workshop
- Asia-Pacific Symposium on Nanobionics

2010

2005

- Collaborative Research Laboratory
- Actuators for Bionics and Biomimetics



Collaborative Program

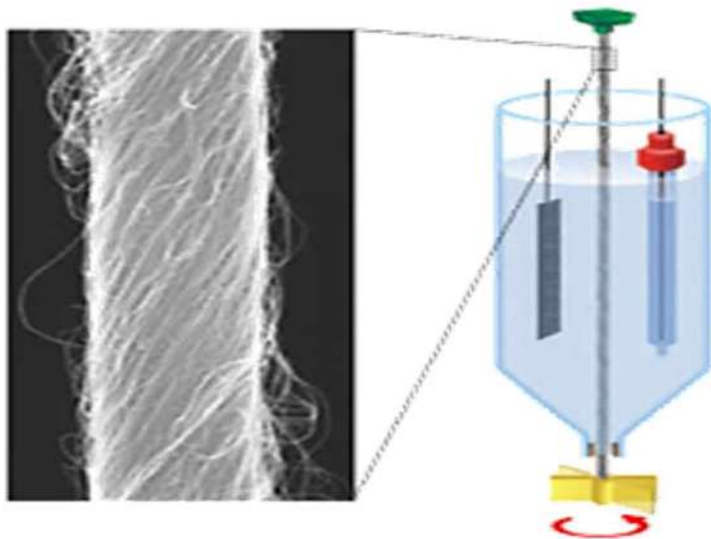


- Sharing research information
- Exchanging students and researchers
- Producing experimental results and papers

Collaborative Products

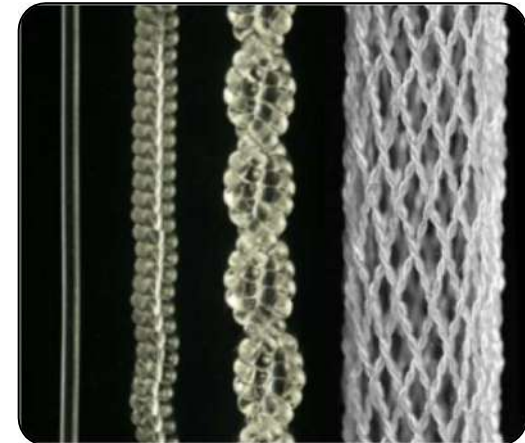
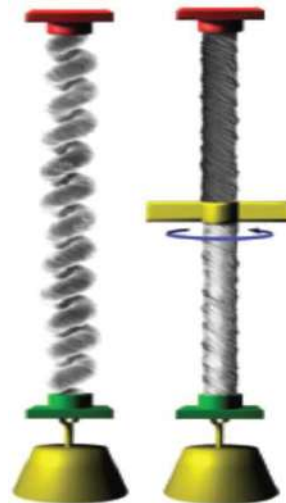
High impact factor papers through synergy effects of collaboration research!!

Torsional artificial muscle



Science 334, 494 (2011)

CNT and Nylon artificial muscle



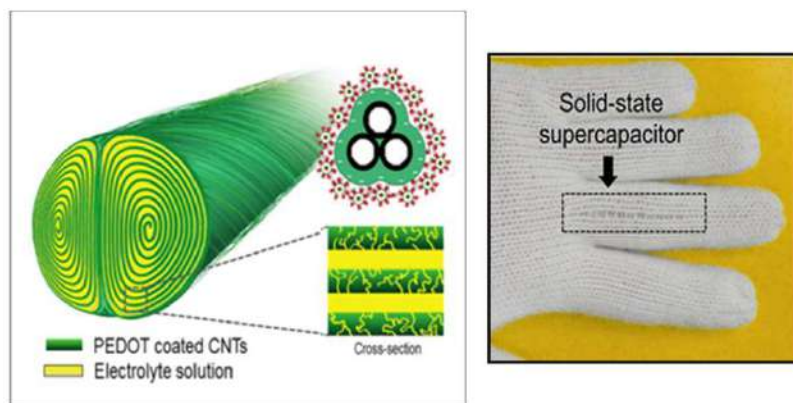
Science 338, 928 (2012)
Science 343, 868 (2014)

Artificial Muscle

Collaborative Products

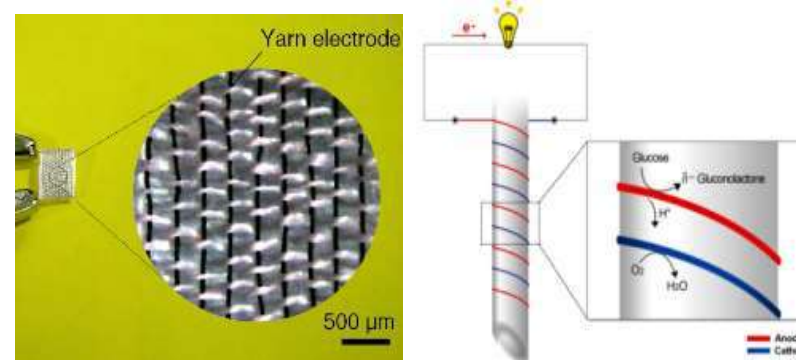
High impact factor papers through synergy effects of collaboration research!!

Fiber type supercapacitor



Nature Comm.
4:1970 (2013)

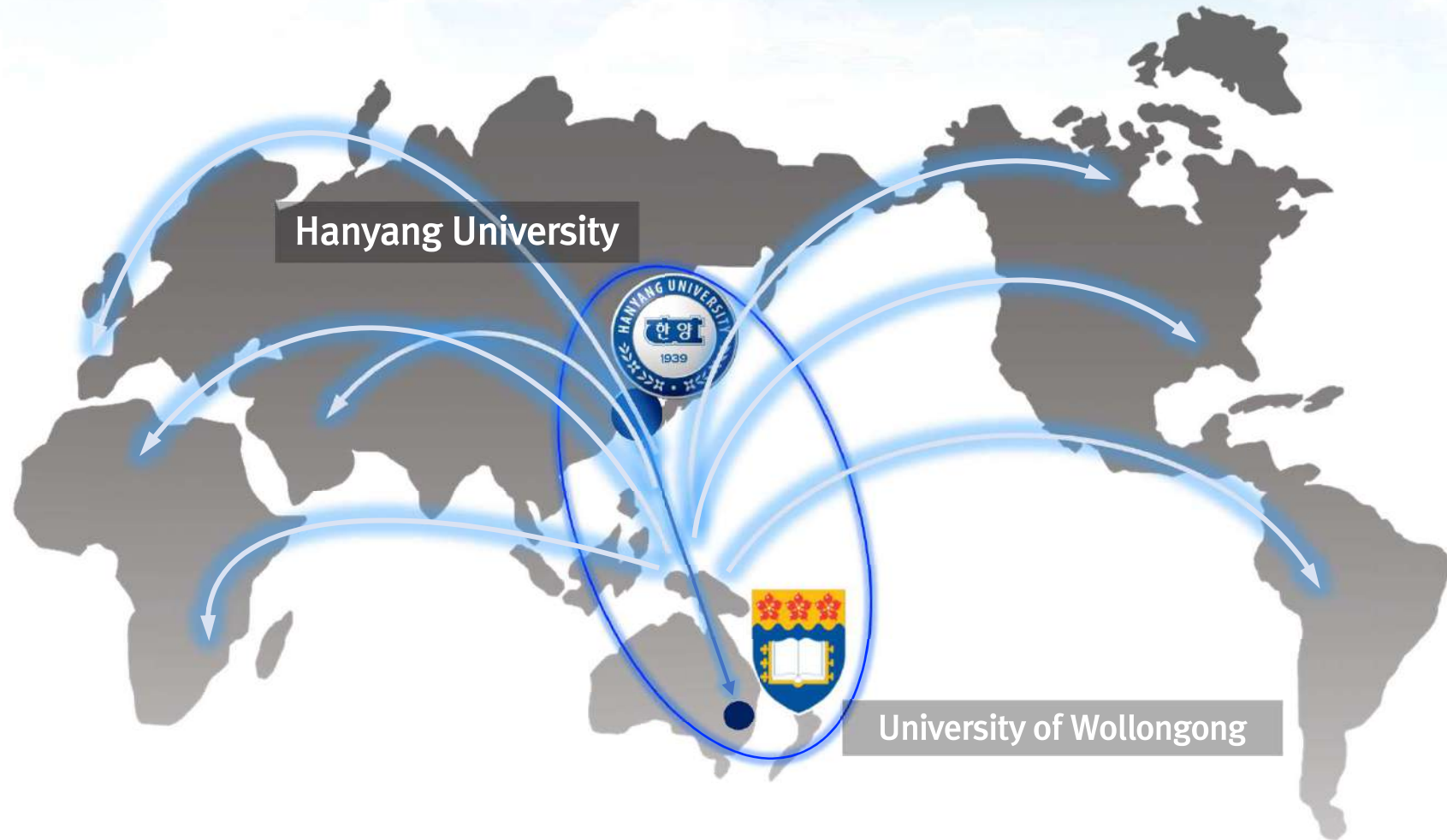
Bio fuel cell



Nature Comm.
5:3928 (2014)

Energy

International Networks



The collaboration of Korea & Australia will be extended to the world

“Top Class Research”

Network System



HYU
+
Korean Institutes
+
Korean Companies



WOU
+
Australian Institutes
+
Australian Companies

**Industrial-Educational
Cooperation System**



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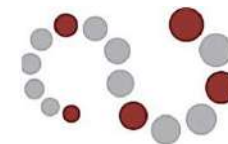
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Thank you !



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