

Library Collaboration with an International Energy Research Institute



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International Institute for Carbon-Neutral Energy Research (I²CNER)



Member of the World Premier International (WPI) Research Center Initiative launched by Japan government and affiliated with the U.S. Department of Energy

Based at Kyushu University, Fukuoka, Japan

Director is Mechanical Engineering faculty member at University of Illinois

The objective of I²CNER is to develop the science required to eliminate barriers and enable the technological breakthroughs necessary for a hydrogen-based society and efficient CO₂ capture and sequestration

Multidisciplinary research institute; faculty in chemistry, materials science, mechanical and nuclear engineering, geoscience, physics, science librarianship, and STEM Education

Library cooperative agreement is a piece within a large multi-institutional research project.

Kyushu University

- A leading world institution on hydrogen research
- Library emphasis on science & engineering

“International Institute for Carbon-Neutral Energy Research”

University of Illinois

- Long history of international hydrogen & related materials research
- Outstanding Library

“Satellite Institute”

- Facilitates collaboration and personnel exchanges

Scientific Collaboration and Research Exchanges

Chemistry

Physics

Biomimetics

Materials Science

Mechanics

Oceanic Science

Geology

Library and Researcher Collaborations



- **Development of special tools and services for I²CNER researchers including research productivity tools**
- **Implementation of a custom database of researcher publications and associated project data**
- **Scientist social networking via HUBzero and Box.com technologies**
- **A just-in-case document delivery for I²CNER researchers**
- **A joint data curation and data stewardship support structure**
- **Coordination and assistance with depositing reports in the two Library Institutional Repositories**
- **Shared Web-Scale Discovery system applications**

International Institute for Carbon Neutral Energy Research (I2CNER) Information Resources

International Institute for Carbon Neutral Energy Research (I2CNER) [Web Page](#)



International Institute for Carbon-Neutral Energy Research,
Kyushu University

Faculty/Researcher Publications

[Hydrogen Production Division](#)

[Hydrogen Structural Materials Division](#)

[Fuel Cells Division](#)

[Thermophysical Properties Division](#)

[Carbon Capture and Storage Division](#)

[Hydrogen Storage Division](#)

[Advanced Materials Transformations](#)

[CO2 Separation and Concentration Div](#)

Hydrogen Structural Materials

[Reiner Kirchheim](#)

[Saburo Matsuoka](#)

[Yukitaka Murakami](#)

[Robert O. Ritchie](#)

[Petros Sofronis](#)

[Brian P. Somerday](#)

[Joichi Sugimura](#)

[Setsuo Takaki](#)

Key Journals

[Acta Materialia](#)

[Advanced Functional Materials](#)

[Advanced Materials](#)

[Curr Opin In Solid State & Mat Sci](#)

[Engineering Fracture Mechanics](#)

[Int Jnl of Hydrogen Energy](#)

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[International Jnl of Fracture](#)

[International Journal of Fatigue](#)

[Jnl of Pressure Vessel Technology](#)

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