About RCAS

The Research Center for Applied Sciences (RCAS) is a multidisciplinary unit within Academia Sinica, Taiwan, dedicated to application-driven research and technology development.

RCAS comprises researchers from various disciplines, organized into specialized thematic centers addressing key application issues. Additionally, it establishes core manufacturing and measurement laboratories to offer specific services both internally and externally.

Utilize cutting-edge and innovative scientific technology to conduct interdisciplinary fundamental science and applied research.

RCAS

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Work time 09:00-17:00 (Weekdays)

應用科學研究中心
Research Center for APPLIED SCIENCES

www.rcas.sinica.edu.tw

Thematic Center for

Green Technology

Our goal is to explore innovative manufacturing and emerging materials in order to expedite the development and implementation of next-generation energy technologies for better life and industrial advancements.

Focus

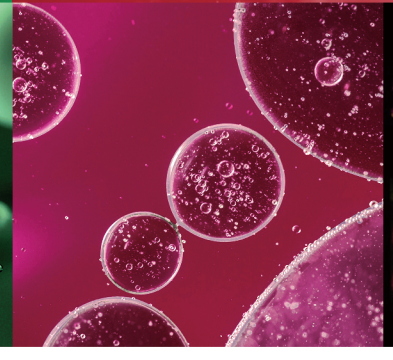
Solar-Driven Photochemical Synthesis using Metasurface Perfect Absorbers

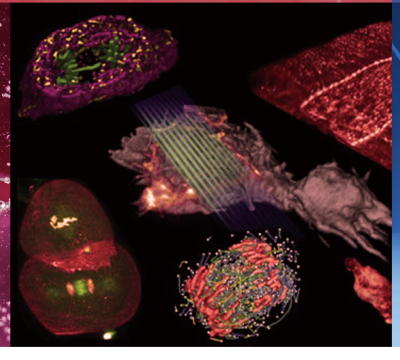
Designing and Developing Solid-State Electrolytes for Next-Generation Batteries

Thematic Center for

Intelligence Bioengineering

Our focus is on topics with potential industrial value in biotechnology or high-impact clinical applications. We aim to advance biomedical applications by developing innovative sensing, imaging, characterization, and fabrication technologies.





Focus

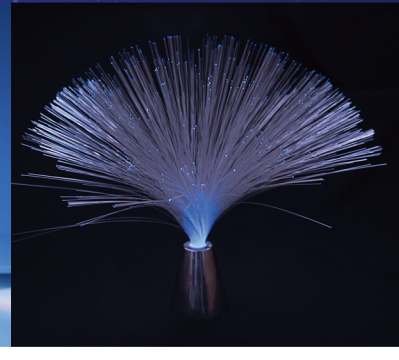
Establishment of an intelligent automated platform for drug screening and delivery

Development of intelligent biomedical imaging technology and its applications in disease treatment

Thematic Center for

Quantum Photonics

The main target is to develop critical device technologies for applications in photonic quantum technologies, including quantum light sources, single photon detectors, and new device architectures based on emergent materials.



Focus

Developing highly efficient single photon emitters and detectors

Exploiting emergent materials for new quantum photonic devices