Dr. Hou-Sheng Huang

ADVANCED MATERIALS EXPERT



Advanced Materials & Energy Technology

Research expertise in electrochemistry, nanomaterials and emerging energy materials.

Dr. Huang has a research background in energy and nanoscale materials, covering supercapacitors, electrochemistry, flexible electronics, conductive materials and advanced microstructures. His work combines university teaching, research institute experience and international academic exchange, with an emphasis on understanding technological feasibility through material properties and experimental methods.

CORE EXPERTISE

- Supercapacitors
- Electrochemistry
- Nanomaterials
- Printed & flexible electronics

Dr. Hou-Sheng Huang

Education & Credentials

- Assistant Professor, Department of Optoelectronics and Materials Engineering, Chung Hua University
- Visiting research experience at the Quantum and Nanotechnologies Research Centre, National Research Council Canada
- Postdoctoral research experience in chemical engineering and bio-industrial mechatronics at National Taiwan University

Areas of Expertise

- Supercapacitors and electrochemical energy-storage materials
- Mesoporous nanomaterials, microstructures and physical-property analysis
- Conductive pastes, printed electronics and flexible electronics
- Perovskites, quantum dots and semiconductor fibres

Career Experience

- Teaching at Chung Hua University since 2024
- Former researcher at the Taiwan Textile Research Institute
- Postdoctoral research at National Taiwan University
- Visiting research at MANA, National Institute for Materials Science, Japan
- Former research assistant at the Materials and Chemical Research Laboratories, ITRI

Professional Focus at GIDI

Provides advanced-materials, energy-storage and electrochemical research expertise.