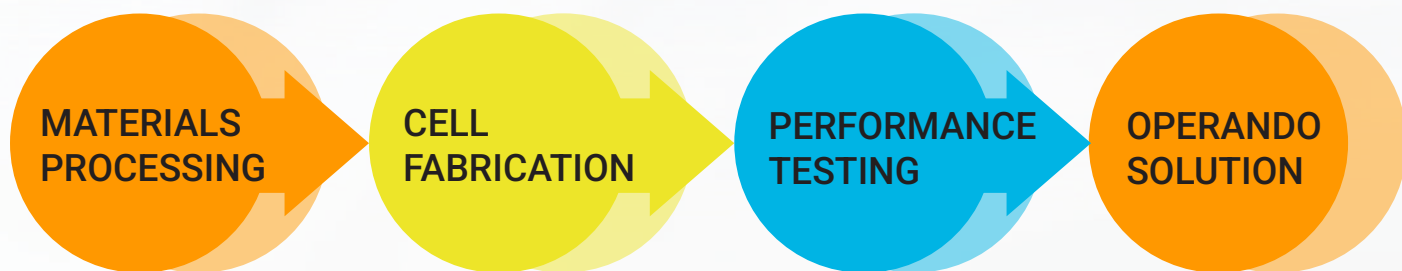
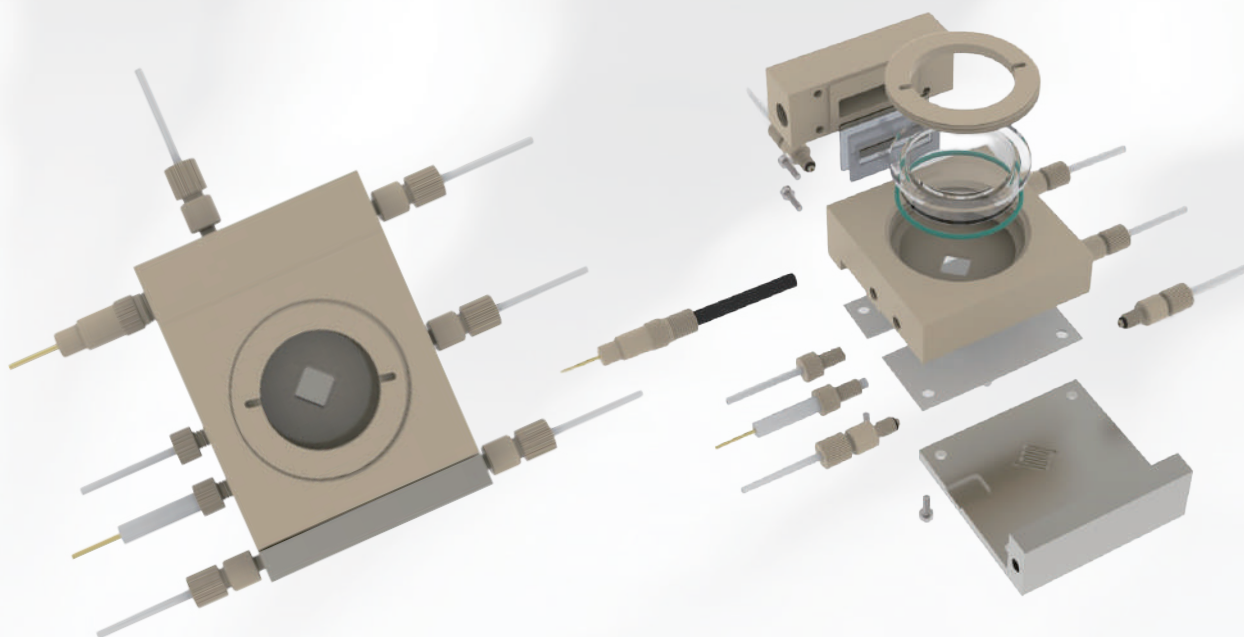




Free Scientists
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Your Trusted Partner For Energy, Catalysis & Carbon Capture

End-to-end laboratory solutions from materials development
to operando insights.

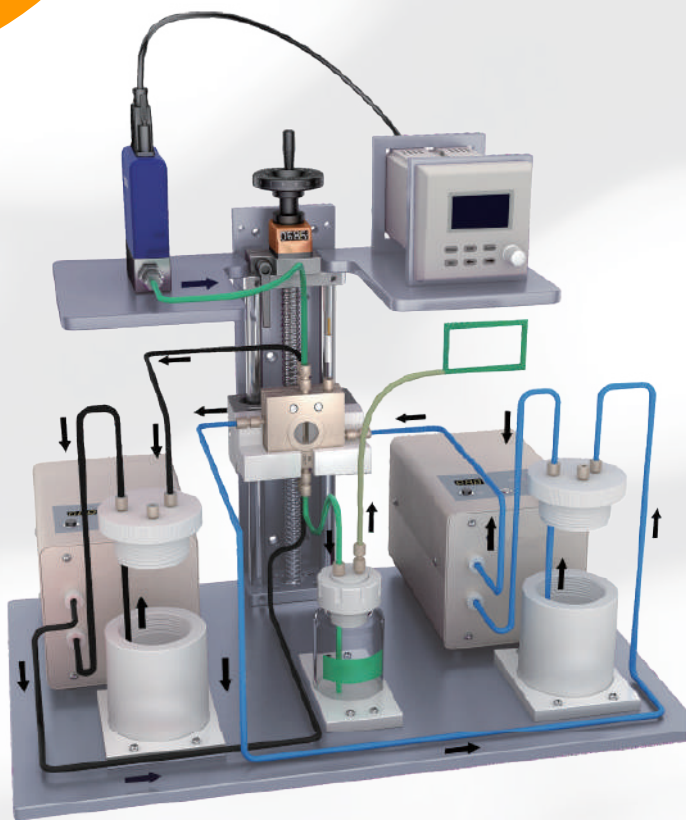


Battery Research

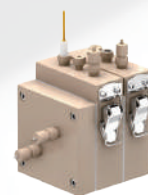
Li-ion | Sodium-ion | Solid-State | Zinc-ion | Metal-Air | Next-Gen Energy Storage

Electrochemical Research

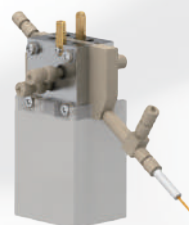
Water Electrolysis | Green Hydrogen | CO₂ Reduction | Fuel Cells | Corrosion



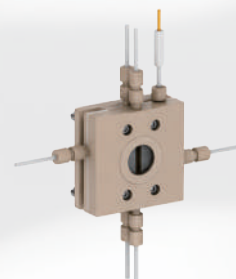
Basic -Level Gas Diffusion Cell



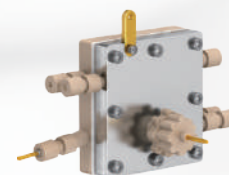
Entry-Level Gas Diffusion Cell



Multi-Functional Gas Diffusion Cell



Intermediate-Level Gas Diffusion Cell



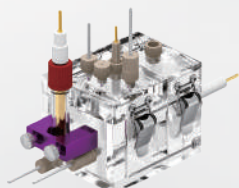
Ultimate Gas Diffusion Cell

Gas Diffusion Flow Cell System

Electrocatalysis | Energy Conversion | CO₂ Reduction

The Advanced GDE Flow Cell System is a turnkey research solution for electrochemical conversion studies. Featuring precise gas and electrolyte control, it enables reliable catalyst evaluation, mechanistic investigations, and continuous-flow operation for carbon, nitrogen, and energy-related research.

Explore the Full Cell Range



2H-Type FlowCell



MEA

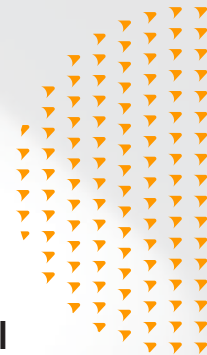


Visual Flow Cell



MEA Stack Flow Cell

Battery Research Glovebox System



Li-ion Batteries | Sodium-ion Batteries | Solid-State Batteries | Lithium Metal Batteries | Silicon Anodes | Next Generation Energy Storage



Battery Fabrication Solutions

Dry Processing: V-Mixing | Jet Milling | Twin-Screw Extrusion | Roller Compaction | Hot Pressing

Wet Processing: Mixing | Filtering | Film Coating | Calendering | Vacuum Drying



V-Mixing



Jet Milling



Twin-Screw Extrusion



Roller Calender



Hot Pressing



Electrode Cutting



Folding & Stacking



Welding



Pouch Forming



Hot Sealing



Electrolyte Filling



Vacuum Resting



Pre-Sealing



Formation & Activation



Final Sealing



2-in-1 Coin Cell Crimping/De crimping

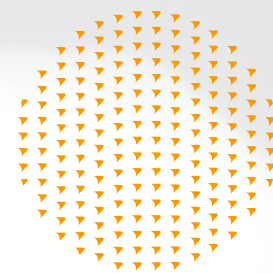


Coin Cells



Pouch Cells

Materials Processing Solutions



Milling & Mixing Equipment



High Speed Vibrating Ball Mill



High Energy Planetary Ball Milling



Low Temperature Ball Mill



Planetary Mixer and Deformer

Thermal Processing



Tube Furnace



CVD Tube Furnace



Muffle Furnace



Rotary Tube Furnace



Chilling Circulator

Controlled Atmosphere System



Standard Glove Box



Customised Glove Box



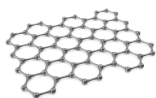
Heated Antechamber with Vacuum Glove Box

Nanostructured Materials



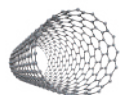
Graphene

- High Electrical Conductivity Graphene
- Reduced Graphene Oxide
- Graphene Aerogels
- Graphene Films
- Graphene Oxide



Carbon Nanotube (CNT)

- High Purity SWCNT & MWCNT
- Functionalized CNT
- Industrial SWCNT & MWCNT
- CNT Masterbatches



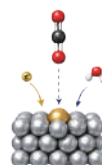
Precious & High-Purity Metals

- Pt, Au, Ag, Ir foils/wire/powder
- Ti, Ni, Cu substrates
- High-purity graphite



Electrochemical & Catalyst Materials

- Cathode powders: Ag, Sn, Bi₂O₃, Cu, CuO NPs
- Anode powders: IrO₂, IrO_x, NiFe, NiFeIr
- PEM, AEM & bipolar membranes



Functional & Advanced Materials

- Cathode precursors (NMC, NCA, LFP, Na-based)
- Anode materials (graphite, Si, hard carbon)
- Solid electrolyte precursors (LLZO, LATP, NASICON)



Electrochemical Research Platform



Electrode



Reference Electrode



Working Electrode



Counter Electrode



Rotating Disk Electrode

Electrochemical Cells



Five-Port Cell



H-Type Absolute Seal Cell



Small Volume H-Type Seal Cell



Quartz Spectro Cell



PEEK Photocatalytic Cell



Single Chamber Glass Cell



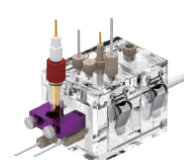
PTFE H-Type Photocatalytic Cell



H-Type Relative Seal Cell



High-Pressure Dual Chamber Cell



H-Type Flow Cell

Research Consumables



Carbon Paper



Carbon Cloth



Copper Foam

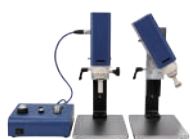


Ion Exchange Membranes



Nickel Foam

Research Accessories



Rotating-disc Electrode Apparatus



Water Pressure Management



Peristaltic Pump



Gas Liquid Mixing Pump



Mass Flow Controller

Battery Testing & Tools

Understand battery mechanisms in real operating conditions.

Battery Testing Equipment



Battery Performance Cycler



Single Channel Potentiostat



Dual-chamber Electrochemical Workstation



Climate Chamber

Battery Testing Tools



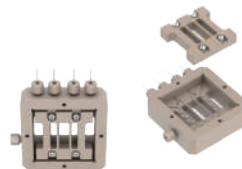
Solid State Battery Testing Tool



Swagelok Testing Cell (Gas-Flow)



Metal-Air Cell



Membrane Conductivity Cell

Battery Research Materials



Anode Materials



Cathode Materials



Conductive Additive



Binder Materials

Materials

ANODE	CATHODE	SEPARATOR	BINDER	CONDUCTIVE AGENT	PACKING CASE AND TABS	ELECTROLYTE	FOILS/ FOAM
Graphite	LCO	PP/PE/PP	PVDF	Conductive Carbon	Coin Cells	LiPF ₆	Copper
Si/SiO	LiFePO ₄	Cellulose	PTFE	Active Carbon	Pouch Cells	NaPF ₆	Aluminum
Hard Carbon	NMC	Ceramic	CMC	Graphite	Cylindrical Cans	Ionic Salts	Carbon Coated Foils
Li/Na	NCA	Glass Fiber	SBR	CNT	AL Tab	LLZO/LLZTO	Zinc/Nickel
MCMC	LMO	PET/Cellulose	PAA	Graphene	NI Tab	LATP/LAGP	Stainless Steel

In Situ & Operando Solutions

Reveal electrochemical and battery mechanisms under real operating conditions.

In Situ & Operando Battery Cells

Non-destructive, real-time characterisation of battery internals under operating conditions.



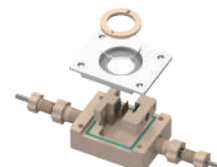
In Situ Raman Cell



In Situ XRD Cell



In Situ Infrared Testing Cell



In Situ Observation Cell for Dendrite Studies

In Situ & Operando Electrochemical Cells

Purpose-built cells for coupling live electrochemical measurements with advanced characterisation techniques.



In Situ Raman Spectroelectrochemical Cell



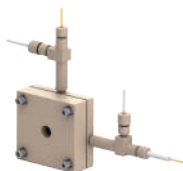
In Situ Raman Spectroelectrochemical Cell for Disk Electrodes



In Situ UV-Vis Spectroelectrochemical Cell



Multi-functional In Situ Flow Cell



In Situ Infrared Transmission Cell



In Situ Infrared Reflection Cell



In Situ XAFS-2H Gas Diffusion Cell

Compatible With

- ▶ Optical Microscopy
- ▶ Raman Spectroscopy
- ▶ UV-Vis Spectroscopy
- ▶ FTIR
- ▶ XRD
- ▶ XAFS
- ▶ DEMS

Key Research Insights

- 📦 Structural Evolution & Phase Transformation
- 🌊 Electrode–Electrolyte Interface Dynamics
- 🔍 Morphology & Microstructure Observation
- 🔧 Reaction Mechanism Investigation
- 🌞 Catalyst & Active Site Transformation
- 🔄 Gas Evolution & Consumption Analysis
- 🔋 Degradation & Failure Mechanism Studies

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