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Salgenx

# licensing-electrode-tech

Electrode Technique Licensing



This webpage QR code

## Structured Data

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Electrode Technique Licensing to save time in preparation of electrodes used in electrolysis for flow batteries.

PDF Version of the webpage (first pages)

## Electrode Technique Licensing

**Purpose:** This licensing is for developers of flow batteries who wish to de-risk and reduce time developing and experimenting with electrodes.

**The Problem Defined:** During our flow battery development validation and evolution, the process of designing,formulating, fabricating, and then testing electrodes became a game of wasting time with various catalyst companies. The process is very time consuming, and many catalyst companies will promise a formula with active loading (xxx mg/cm<sup>2</sup>), and then not even deliver on what they quoted. Weeks and months can be spent going back and forth. If you decide to formulate and build your own electrodes for your flow battery, you'll need some very expensive equipment, and dedicated staff to run it. Setting up a lab with electrode fabrication can take months and hundreds of thousands of dollars.

**Function:** This license is for rapid deployment of forming electrode design, coatings, and catalyst delivery for liquid electrolysis for flow batteries. We have two techniques which allow on-demand catalyst coating on flat, shaped, packed bed, and other electrodes.

**Savings:** This innovation can save you huge amounts of time, staff, and funding while delivering just-in-time electrode development. Imagine formulating an electrode catalyst and being able to test it the same day, or even same hour.

**Experimental:** The license is for on-demand electrode fabrication and catalyst coating. This is specifically for running tests to determine the applicability and design confirmation of the electrode in a electrolyte. Since this has not been duration (time) tested, we cannot guarantee erosion or catalyst degradation profiles over time. With a lab proven catalyst, you can then move to a more traditional fabrication with chemical companies for your system deployment.

**Price:** \$49,999 USD (not time limited)

**Note:** This is confidential and copyright protected and requires a signed Agreement. May not be resold. Updates available via subscription.

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## Filemaker Database

Information provided in pdf and Filemaker database format, which allows you to learn a system to research, prepare, experiment, and discover electrode function.

A database is the perfect tool to help you navigate the development of electrodes and the project experimentation.

## Structure and Format

This database gives you structure to do experiments with replication and success in first principles strategy. It gives you the tools to evolve your experimentation to the next level. This is especially important for on-demand electrolysis development to commercialization.

Part of the Suppliers database allows you to easily keep track of consulting time.

## QR Code Generator

Part of the suppliers database allows you to generate QR code and labels, so it's easy to track experiments (label the beaker, electrode, or components).

## Suppliers Database

The suppliers database allows you to aggregate your supplier information:

- Contact info (name, company, phone, email, and address)
- Log of order or contact (allows you to track order)
- Purchase Order log (allows you to track order)
- Invoice Order log
- Letter or Email Communications log
- Label Maker

Because it's in database format, you can easily reorder, and duplicate information for other suppliers to save huge amounts of time.

Having a log of the order allows you to track time between order preparation and receipt of electrode catalyst, but also allows you to log feedback in terms of performance of catalyst for modification or reorder.

## Research Database

The research database allows you to do the following:

- copy and paste from web search
- web address, image, pdf, title, abstract, and notes
- fast database search for info when needed and log document trail of data
- feedback of experiments allowing you to flag research for additional experiments

The purpose of the database allows to to harvest information and science, and make them ready at a moments notice. You can easily search and retrieve information, even store media within the database.

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## Experimental Procedure

Here is a basic experimental procedure sample based on the salt water battery system. With our optional Experimenters Cart, you can integrate databases together for better results.

1. Obtain necessary materials: salt water aqueous electrolyte, organic electrolyte, electrodes (e.g. cathode and anode), voltage meter, load center, battery tester, timer, and other equipment as needed.
2. Prepare the salt water solution by dissolving a specific amount of salt in distilled water. Prepare organic electrolyte.
3. Assemble the battery by connecting the electrodes to the voltage meter and immersing them in the salt water and organic solution.  
Record the initial voltage reading.
4. Turn on the timer and begin the experiment by running a current through the electrodes.
5. Record the voltage readings at specific time intervals (e.g. every minute) and document any observed changes.
6. Monitor the experiment for any signs of corrosion or degradation of the electrodes.
7. Turn off the current and document the final voltage reading.
8. Disassemble the battery and clean the electrodes.
9. Analyze the data collected during the experiment and compare the results to expected outcomes.
10. Write a report of the experiment, including a summary of the results, any observations, and a discussion of the implications of the findings.

## TRL Database

Build your own TRL with custom stages.

This is important for team goals as well as presenting research and development stages to investors.





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