

Pt/C in both alkaline and acidic media with a respective η_{10} of −12 and −23 mV.

APPLICATIONS

Rapid creation of carbon/metal nanoparticle composites for catalyzing water splitting reaction (seconds as opposed to hours/days).

Creation of high performance catalysts for Hydrogen Evolution Reaction (both for alkaline and acidic conditions) and Oxygen Evolution Reaction with cheaper resources.

ADVANTAGES

It's the fastest and cheapest way known to produce custom electrocatalysts for water splitting.

INTELLECTUAL PROPERTY INFORMATION

Country	Type	Number	Dated	Case
Patent Cooperation Treaty	Published Application	WO 2023/136974	07/20/2023	2022-820

Additional Patent Pending

RELATED MATERIALS

- ▶ [Ultrafast Preparation of Nonequilibrium FeNi Spinels by Magnetic Induction Heating for Unprecedented Oxygen Evolution Electrocatalysis](#) - 06/01/2022
 - ▶ [Rapid preparation of carbon-supported ruthenium nanoparticles by magnetic induction heating for efficient hydrogen evolution reaction in both acidic and alkaline media](#) - 05/06/2022
- ADDITIONAL TECHNOLOGIES BY THESE INVENTORS
- ▶ [Platinum Oxide Nanoparticles For Electrocheical Hydrogen Evolution Influence Of Platinum Valence State](#)
 - ▶ [Ru,N-Codoped Carbon Outperforms Platinum Toward Hydrogen Evolution Reaction In Alkaline Media By Atomically Dispersed Ruthenium](#)
 - ▶ [Catalysis Of The Hydrogen Evolution Reaction Using Ruthenium Ion Complexed Carbon Nitride Materials](#)

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