

## Urea Electrolysis Direct Hydrogen Production From Urine

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~~w. Bryan K. Boggs, Rebecca L. King and Gerardine G. Botte\*. Received (in Cambridge, UK) 25th March 2009, Accepted 11th June 2009~~ First published as an Advance Article on the web 1st July 2009 DOI: 10.1039/b905974a A new technology has been developed that accomplishes the direct conversion of urine and urea to pure hydrogen via electrochemical oxidation with an inexpensive nickel catalyst.

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A new technology has been developed that accomplishes the direct conversion of urine and urea to pure hydrogen via electrochemical oxidation with an inexpensive nickel catalyst. You have access to this article

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direct conversion of urine and urea to pure hydrogen via electrochemical oxidation with an inexpensive nickel catalyst. The utilization of wastewater for useful fuel has been gathering recent...

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A new technology has been developed that accomplishes the direct conversion of urine and urea to pure hydrogen via electrochemical oxidation with an inexpensive nickel catalyst. Urea electrolysis: direct hydrogen production from urine

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Urea Electrolysis: Direct Hydrogen Production from Urine. Default journal, 4859-4861.

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Urea electrolysis: direct hydrogen production from urine† Bryan K. Boggs , a Rebecca L. King a and Gerardine G. Botte \* a Author affiliations Urea Electrolysis Direct Hydrogen Production of the gas phase for urea electrolysis, but is believed to have formed potassium carbonate in the liquid phase.

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Hybrid photovoltaic-urine electrolysis is demonstrated technically viable. Urine electrolysis and simultaneous H<sub>2</sub> production is achieved without electrolytes. Electrolysis of urea enhances the H<sub>2</sub> production by maximum 20%. The synergy for H<sub>2</sub> production depends on the urea concentration and electrolytes. Chloride contained in urine plays a crucial role in the synergy and electrolysis.

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Therefore, urea electrolysis offers multiple benefits with the direct conversion of urea to valuable hydrogen, which has not been accomplished with any other technology to date , , . As shown in the proposed mechanism [1] , urea is oxidized at the anode at a standard theoretical potential of -0.46 V vs. the standard hydrogen electrode (SHE) (Eq.

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Abstract. Electrochemical splitting of water to produce hydrogen remains a great challenge owing to the sluggish reaction dynamics of the anodic oxygen evolution reaction (OER). Replacing the OER with the thermodynamically more favorable urea oxidation reaction (UOR) offers the prospect of energy-saving H<sub>2</sub> production together with urea-rich wastewater purification.

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Urine is put into an electrolytic cell, which separates out the hydrogen. The hydrogen goes into a water filter for purification, which then gets pushed into the gas cylinder. The gas cylinder pushes hydrogen into a cylinder of liquid borax, which is used to remove the moisture from the hydrogen gas.

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NREL analyzed the cost of hydrogen production via wind-based water electrolysis at 42 potential sites in 11 states across the nation. This analysis included centralized plants producing the Department of Energy (DOE) target of 50,000 kg of hydrogen per day, using both wind and grid electricity.

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Urea oxidation reaction (UOR) is the underlying reaction that determines the performance of modern urea-based energy conversion technologies. These technologies include electrocatalytic and photoelectrochemical urea splitting for hydrogen production and direct urea fuel cells as power engines.

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Urine's major constituent is urea, which incorporates four hydrogen atoms per molecule - importantly, less tightly bonded than the hydrogen atoms in water molecules. Botte uses electrolysis to...

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Because of its low energy consumption and the use of inexpensive catalysts, the technology finds applications for the production of hydrogen on demand requiring only the storage of urea. In addition to direct production of hydrogen on demand, urea-rich wastewaters can be remediated via urea electrolysis to prevent toxic ammonia emissions and nitrate contamination that currently results from leaving these waters untreated.