

PGM-Related Technologies Drive Carbon Footprint Reduction in Agriculture and Aquaculture, Says Innova Research

VANCOUVER, BRITISH COLUMBIA,
CANADA, February 10, 2025

[/EINPresswire.com/](https://www.einpresswire.com/) -- [Innova Research](https://www.innovaresearch.com/),

a renowned leader in market research and technology scouting services, specializing in emerging technologies, has recently released a new comprehensive report, "Platinum

Group Metals (PGMs) in Sustainable Agriculture and Aquaculture: Current Applications and Future Horizons." The report analyzes and summarizes the transformative role of PGM-based technologies in advancing eco-friendly practices across these critical sectors.



The report explores the diverse applications of PGMs and PGM-related catalysts, antimicrobial agents, and materials in agriculture. It offers an in-depth analysis of existing and emerging opportunities for PGM adoption across the agriculture value chain, including their roles in pesticides, fungicides, soil remediation, plant growth promotion, and advanced sensors for smart agriculture. Additionally, the report examines the PGM utilization in industrial processes such as electrochemical hydrogen production for the synthesis of ammonia, a key component in nitrogen-based fertilizers.

According to the report's findings, PGM-related technologies contribute significantly to reduce the consumption of chemical fertilizers, pesticides, and water in agriculture and aquaculture. These technologies also facilitate soil remediation, agricultural waste recycling, and the conservation of natural resources, ultimately supporting carbon footprint reduction in these industries.

Dr. Nancy Wu, Research Director at Innova Research, commented, "While most PGM-related technologies in agriculture and aquaculture, such as PGM nanoparticle delivery systems, are still in conceptual or laboratory stages and remain far from commercialization, some exceptions, such as PGM-based electrochemical sensors, have already reached the commercial market."

About Innova Research:

Innova Research is a leading market research and consulting firm specializing in emerging

technologies. With a keen focus on advanced materials, renewable energy and environmental technologies, advanced electronics, industry internet and robotics, energy storage, and more, Innova Research provides valuable market intelligence reports, technology scouting, and consulting services. With a team of industry experts and a commitment to delivering cutting-edge insights, Innova Research empowers marketing & strategy, corporate VC, corporate R&D, and VC clients to make informed decisions and thrive in the rapidly changing technology landscape, by leveraging primary research and in-depth analysis. Visit www.innovaresearchinc.com for more information.

Nancy Wu

Innova Research

+1 604-243-9688

nancy.wu@innovaresearchinc.com

Visit us on social media:

[X](#)

[LinkedIn](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/784614200>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.