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Dear all

Company Name	NITTOSEIKO CO., LTD.
Name of Representative (code.	Chief Operating Officer Makoto Araga 5957 Tokyo Stock Exchange Prime Market)
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Announcement of Joint Research Agreement with Ritsumeikan University

We are pleased to announce that on September 8, we have concluded a joint research agreement with Ritsumeikan University concerning the “Development of a Flow Device for Visible Light-Induced Degradation of PFAS”. With this research, we will jointly create new solutions that contribute to solving social challenges and help realize a sustainable society.

1. Collaboration Overview

Category	Overview
Research Topic	Development of a Flow Device for Visible-Light-Induced Degradation of PFAS
Requesting Institution and Researchers	Professor Yoichi Kobayashi, Department of Applied Chemistry, College of Life Sciences, and Research Center for Advanced Materials, Research Organization of Science and Technology, Ritsumeikan University
Purpose and Content	Professor Kobayashi developed a method to efficiently adsorb and decompose PFAS by irradiating semiconductor nanocrystals he synthesized with visible LEDs. Light irradiation causes the detachment of organic molecules from the nanocrystal surface, promoting PFAS adsorption and leading to its breakdown and mineralization into fluoride ions. Currently, the process is carried out in batch mode using 1 mL solutions. To enable continuous treatment of PFAS-containing water, we plan to develop a flow reactor.
Venue	Ritsumeikan University Biwako-Kusatsu Campus 1-1-1, Noji Higashi, Kusatsu, Shiga

2. Future Outlook

This research project is expected to be developed over a three-year period, and decisions will be made in consultation with Ritsumeikan University. The impact of this matter on the earnings forecast for the fiscal year ending December 2025 is expected to be minimal. However, we believe it will contribute to the expansion of the Company’s environment-related business areas utilizing core technologies in the medium to long term.

Thank you

Reference

Development of a Mild Visible-Light Method to Decompose Persistent PFAS (Ritsumeikan University NEWS&TOPICS)

<https://www.ritsumei.ac.jp/news/detail/?id=3701>