

Nano Photocatalysis: Pioneering Progress and Industrial Applications for Sustainable Environmental Solutions

Siddiqui Alima Fatema

SBES Science College, Chht Sambhajinagar, India
alima15102000@gmail.com

Abstract: Nano photocatalysis has become a cornerstone technology in environmental sustainability. This paper delves into the significance of nano photocatalysis, highlighting its mechanisms, industrial applications, and benefits for sustainable development. By reducing industrial pollution and enabling eco-friendly practices, nano photocatalysis offers an innovative approach to environmental challenges. Key sections address its role in water and air treatment, energy efficiency, and emerging research directions, making it a pivotal solution aligned with sustainable development goals

Keywords: Nano photocatalysis