



Self-Cleaning Materials and Surfaces: A Nanotechnology Approach

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DESCRIPTION

With increasing demand for hygienic, self-disinfecting and contamination free surfaces, interest in developing self-cleaning protective materials and surfaces has grown rapidly in recent times. This new title comprises of invited chapters from renowned researchers in the area of self-cleaning nano-coatings and the result is a comprehensive review of current research on both hydrophobic and hydrophilic (photocatalytic effect) self-cleaning materials.

ABOUT THE AUTHOR

Dr Walid A. Daoud is a Senior Lecturer at Monash University. He graduated from the University of Technology Graz, Austria with a Dipl-Ing degree (BS and MS) in Chemical Engineering and received his PhD in the fabrication of photovoltaic devices from the University of Sheffield, UK. Dr. Daoud has received several awards for his pioneering work on self-cleaning fibers using nanotechnology which featured in leading journals such as Nature (2004) and Science (2008). He won the Gold Medal from the 34th International Exhibition of Inventions, Geneva, Switzerland in 2006 for his invention of self-cleaning fibers and the Bronze Medal from the 5th China International Invention Expo, Shanghai, China in 2004 for his work on the functionalization of cellulose. His work has also received international media coverage with interviews in scientific magazines, TV, radio, and newspapers such as MIT Technology Review, CNN, Discovery Channel, NY Times, and ABC.

Miss Wing Sze Tung is a postgraduate student at Monash University who has published papers in the following research areas: ? nanotechnology, photocatalysis, visible light photocatalysis and keratin surface modification.

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