

1. Record Nr.	UNINA9910765545703321
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Titolo	Nature-inspired self-cleaning surfaces in the nantoechnolgy era // Phuong V. Pham
Pubbl/distr/stampa	London : , : IntechOpen, , 2023
ISBN	1-83769-070-7
Descrizione fisica	1 online resource : illustrations
Disciplina	620.5
Soggetti	Nanotechnology Nanotechnology - Safety measures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Biomimetic Superhydrophobic Materials for Environmental Applications -- 2. Plant-Based Sustainable Self-Cleaners in Nanotechnology Era: From Mechanism to Assembling -- 3. Self-Cleaning Surfaces of Polyurethanes -- 4. A Self-Cleaning Approach Utilizing Metal Oxide Thin Films and Nanocomposites -- 5. Plasma Based Approaches to Achieve Self-Cleaning Surfaces -- 6. Nanomachining.
Sommario/riassunto	This book examines a new field of nature-mimicked nanotechnology and chemical manipulation, focusing on the mechanisms, principles, and manufacturing of self-cleaning surfaces and describing how these materials can be created for scalable production. Self-cleaning ability on the topmost surfaces of materials increases a product's value for applications in microfluidics, lap-on-chip, microreactors, air purification, and more. An easy way to obtain self-cleaning properties is by creating superhydrophobic surfaces so water droplets can roll down, picking up dirt particles on the way. This book provides a comprehensive overview of self-cleaning properties in nanotechnology. It includes six chapters that address such topics as the fabrication and applications of biomimetic superhydrophobic materials, self-cleaning surfaces of different plants, self-cleaning polyurethane surfaces, self-cleaning approaches using plasma, and laser technology for superhydrophobic self-cleaning applications.

2. Record Nr.	UNINA9910439056003321
Titolo	World cancer research journal
Pubbl/distr/stampa	Miami, FL : , : Verduci International LLC, , 2014-
Disciplina	616
Soggetti	Cancer - Research Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed