

**NEW REPORT!!!**

# ADVANCES IN COATINGS AND SURFACE MODIFICATION TECHNOLOGY

*Practically every manufactured component requires a coating, for either decorative or protective purposes*

A coating plays an important role in determining a product's commercial viability. A coating, or thin film, may help determine whether a product is successful in the marketplace. Coatings and thin films are of significant industrial importance, and they are used in a large number of products.

Coating products are the first line of defense in the control of wear and rust. Producers of industrial coatings are faced with a key challenge: develop new coatings and processes that are economically competitive. Moreover, they must achieve this goal without creating an adverse impact on the environment.

With these concerns in mind, Functional Technology Intelligence—FTI—has published a new detailed report: *Advances in Coatings and Surface Modification Technology*. This report analyzes several scientific and technological advances that have been achieved and that are leading toward new applications for industrial coatings and thin films. With this report, you'll get an advanced look at key developments in the field of surface modification.

A significant gap exists between basic materials science and the ability to bring new coatings and thin film systems to fruition in microelectronic and other applications. Future coatings research is critical to overcoming obstacles to successful substrate deposition, especially at the atomic level. *Advances in Coatings and Surface Modification Technology* will put you at the forefront of this and related research.

### Among the research covered in this report, you'll read about:

- ✓ A collaboration that will investigate the durability of nearly frictionless carbon surface coatings in high-performance, vacuum environments.
- ✓ New nanocomposite synthesis technology that makes it possible to assemble naturally environmental benign nanoscale cerium oxide or hydroxide particle-dispersed organopolysiloxane nanocomposite materials.
- ✓ Organic materials that are attractive for applications such as flexible displays or electronic paper. They are inherently flexible. Imagine a computer screen that you could fold like a sheet of plastic film!
- ✓ An adhesive protein that is secreted by mussels and a polymer that repels cells and proteins. By mimicking these materials, researchers have designed a versatile new two-sided coating that could breathe life into medical implants.

Now you have the opportunity to learn about new developments in advanced coating and thin film research undertaken at universities, companies and government research labs worldwide. This information will help you gain ground against competitors when it comes to optimizing the science of surface modification and developing new products or reformulating old ones. This report reviews significant technical developments in the field, discussing potential applications for each area of research and its status of development. You'll also learn how to take advantage of many of these technologies, either through licensing or other collaborations.

*Advances in Coatings and Surface Modification Technology* will help you track new technologies and contact key researchers who could help you meet your research goals. **Return the completed order form today, and learn about the innovations that will help you stay competitive!**

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### For Further Reading

**YES, send me**

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