



Nano Newsflash, the monthly e-mail news service, brings you latest news and developments in the nanotechnology sector in the region. The service is prepared by TERI, an autonomous, not-for-profit research institute working in the areas of energy, environment, and sustainable development, with support from IDRC under the project **Nanotechnology in South Asia – Building Capabilities and Governing the Technology**.

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J&K to use nanotechnology to check fake Pashmina

Hindustan Times, 9 April 2013

Jammu and Kashmir government is in the process of using nanotechnology to authenticate the genuineness of Pashmina shawls, a step that will curb counterfeiting of the world famous handloom product of the Valley. A laboratory is being set-up at the Craft Development Institute in Srinagar.

<http://www.hindustantimes.com/India-news/Srinagar/J-amp-K-to-use-nanotechnology-to-check-fake-Pashmina/Article1-1039732.aspx>

Controlling shape of lead nanoparticles by sunlight

PR.com, 13 April 2013

Indian researchers have controlled shape of lead nanoparticles by using sunbeams. The research group is based at Centre for Research and Post Graduate Department of Physics, Ayya Nadar Janaki Ammal College. The study is published in *Nano Biomedicine and Engineering*, Volume 5, No 1 (2013)

<http://nanobe.org/index.php?journal=nbe&page=article&op=view&path%5B%5D=218>

<http://www.pr.com/press-release/484971>

Graphene-based antireflection stack suits solar cells and UV detectors

Nanotechweb, 18 April 2013

Based on experimental and theoretical studies, researchers at the Indian Institute of Technology Delhi, India, have shown that graphene layers deposited on planar and textured silicon surfaces have excellent antireflection (AR) properties. The team reported that CVD-deposited graphene on planar and textured silicon has significantly lower reflectance, especially over the UV range in comparison with a Si₃N₄ layer – textured silicon stack commonly used in today's solar-cell technology. The researchers presented their results in the journal *Nanotechnology*, Volume 24, No 16 (2013)

<http://iopscience.iop.org/0957-4484/24/16/165402/>

<http://nanotechweb.org/cws/article/lab/53111>

Nanotech research speeds up, but applications fail to materialize

Mint, 22 April 2013

Slightly more than a decade after India officially embarked on a concerted Rs 1000 crore effort to accelerate nanoscience and build an industrial base reliant on nanotechnology applications, it has doubled its share of research publications in the sector in that period. On the other hand, it has barely made a dent in being able to translate this research into usable products, says a just published report on nanotechnology in India.

<http://www.livemint.com/Specials/j8UZSy0iiA8kRpgtjwxioM/Research-speeds-up-but-applications-fail-to-materialize.html>

Jamia in cutting-edge nanotechnology research, says official

CIOL, 23 April 2013

The Jamia Milia Islamia is at the forefront of path-breaking research in nanotechnology, which could change the lives of people for the better, a university official said. A sophisticated process machine has been installed in the Centre for Nanoscience and Nanotechnology, and was recently inaugurated by the vice-chancellor of the university.

<http://www.ciol.com/ciol/news/187481/jamia-cutting-edge-nanotechnology-research-official>

Textile with a twist: Fabric that makes you feel fresh despite sweat

Deccan Chronicle, 24 April 2013

Indian Institute of Technology, Delhi's SMITA (*Smart* Materials and Innovative Textile Applications) research lab has developed a nano-science based innovation that lends a fabric antimicrobial property, resulting in removal of smell despite presence of perspiration on it. The product was funded by the Centre, Department of Science and Technology, Bangalore-based textile chemical company RESIL Chemicals, among others.

<http://www.deccanchronicle.com/130424/news-current-affairs/article/textile-twist-fabric-makes-you-feel-fresh-despite-sweat>

Nanoscience and Nanotechnology: From Concepts to Applications

IIT Indore

Indian Institute of Technology Indore is organizing the Continuing Education Program on Nanoscience *and Nanotechnology: From Concepts to Applications* during 17-19 October 2013. The aim of this course is to apprise academicians, researchers, and scientists in various institutions, research laboratories, industries on the basic and applied technological advancements in the field.

http://www.iiti.ac.in/Courses/CEP/15042013_CEP_leaflet_final.pdf