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Characterization of nanocomposite coatings on textiles: a brief review on Microscopic technology Mazeyar Parvinzadeh Gashti\* 1, Farbod Alimohammadi<sup>2</sup>, Guowen Song<sup>3</sup>, Amir Kiumarsi<sup>4</sup> 1 Department of Chemistry and Biochemistry, University of Bern, Freiestrasse 3, CH-3012 Bern, Switzerland 2 Young Researchers Club, Textile Department, Islamic Azad University- South Tehran Branch, Tehran, Iran

### **Characterization of nanocomposite coatings on textiles: a**

Nanocomposite is a multiphase solid material where one of the phases has one, two or three dimensions of less than 100 nanometers (nm), or structures having nano-scale repeat distances between the different phases that make up the material.. The idea behind Nanocomposite is to use building blocks with dimensions in nanometre range to design and create new materials with unprecedented ...

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Dr. Min Wang is a tenured professor at The University of Hong Kong (HKU) and as Programme Director, has led HKU's interfaculty Medical Engineering Programme (which is retitled in 2018 as "Biomedical Engineering Programme") from 2013 to 2018.

### **Min Wang, PhD - University of Hong Kong**

where x, y and z are the stoichiometric moles of the metal steel (M), organic coatings (Org) and water molecules, respectively.. 2.2.2. Cathodic protection. Cathodic inhibitors on the other hand, decrease the rate of cathodic reaction by forming insoluble deposits on the metal surface that reduce oxygen diffusion to the metal [22,23].The conductivity and electroactivity of organic compounds ...

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1. Introduction. Nanocomposites are composites in which at least one of the phases shows dimensions in the nanometre range (1 nm = 10<sup>-9</sup> m). Nanocomposite materials have emerged as suitable alternatives to overcome limitations of microcomposites and monolithics, while posing preparation challenges related to the control of elemental composition and stoichiometry in the nanocluster phase.

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