

biological and biomedical coatings pdf

Chitin is an insoluble linear polymer of β -1,4-linked N-acetylglucosamine residues. Chitin is the most abundant nitrogen-bearing organic compound found in nature: it is a common constituent of insect exoskeletons, shells of crustaceans and fungal cell walls. Chitin is the second most common biomass. It is produced by a variety of marine animals, insects and fungi.

natural materials, biomaterials, biological materials

Sol-gel chemistry offers a flexible approach to obtaining a diverse range of materials. It allows differing chemistries to be achieved as well as offering the ability to produce a wide range of nano-/micro-structures.

Sol-gel based materials for biomedical applications

Radar is a term derived from the U.S. Navy acronym radio Detection And Ranging. Using radio waves and microwaves, radars can detect objects and determine range, altitude, direction, or speed.

Industrial Base Technology List - CDSE

Krishnendu Saha received his B.Sc. in Chemistry from Jadavpur University, India in 2006 and M.Sc. in Chemistry from Indian Institute of Technology-Madras, India in 2008. He is currently pursuing his Ph.D. at the Department of Chemistry, University of Massachusetts at Amherst, U.S.A. under the ...

Gold Nanoparticles in Chemical and Biological Sensing

Prof. Dr. Damjana Drobne is head of Bionanoteam, the Research group for nanobiology and nanotoxicology at the Biotechnical faculty, University of Ljubljana. With over twenty years of research experience, she is a full professor of Zoology and Toxicology, and the Vice head of the Department of biology. Her group Bionanoteam conducts research in large EU-funded research projects.

Damjana Drobne - Bionanoteam - Nanobiology and

Alginate is a biomaterial that has found numerous applications in biomedical science and engineering due to its favorable properties, including biocompatibility and ease of gelation.

Alginate: Properties and biomedical applications

A biosensor is an analytical device, used for the detection of a chemical substance, that combines a biological component with a physicochemical detector. The sensitive biological element, e.g. tissue, microorganisms, organelles, cell receptors, enzymes, antibodies, nucleic acids, etc., is a biologically derived material or biomimetic component that interacts, binds, or recognizes with the ...

Biosensor - Wikipedia

JNN is a multidisciplinary peer-reviewed journal covering fundamental and applied research in all disciplines of science, engineering and medicine.

Journal of Nanoscience and Nanotechnology

A polymer (/ ˈpɒlɪˈmɛr /; Greek poly-, "many" + -mer, "part") is a large molecule, or macromolecule, composed of many repeated subunits. Due to their broad range of properties, both synthetic and natural polymers play essential and ubiquitous roles in everyday life. Polymers range from familiar synthetic plastics such as polystyrene to natural biopolymers such as DNA and proteins that ...

Polymer - Wikipedia

Li et al. demonstrate a noninvasive and biocompatible nanospear by optically trapping a yeast cell and a chain of *L. acidophilus* cells to a tapered fiber probe. The bio-nanospear can be used to probe localized fluorescence from a single leukemia cell in human blood at subwavelength resolution.

ACS Nano (ACS Publications)

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Self-cleaning, water and dirt-repellent coatings have differing properties, functional principles and manufacturing processes. Self-cleaning of the 'Lotus Effect' type has its basis in chemical-physical principles - these surfaces are characterised by a special roughness and are strongly water-repellent; in the ideal case, rain is sufficient for cleaning.

Nanotechnology solutions for self-cleaning, dirt and water

Due to the rapid and diverse growth of engineered nanomaterials, it is a challenge for regulators and risk assessors to understand the potential for exposure and whether methods used for assessing conventional chemicals can be used for nanomaterials.

Research on Nanomaterials | Safer Chemicals Research | US EPA

23 Pharmaceutical Process Validation, edited by Bernard T Loftus and Robert A Nash 24 Anticancer and Interferon Agents Synthesis and Properties, edited by Raphael M Ottenbrtte and George B Butler

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A chemical formula is a way of expressing information about the proportions of atoms that constitute a particular chemical compound, using a single line of chemical element symbols and numbers.

1,4-Cyclohexanedimethanol | C8H16O2 - PubChem

Research Area : Macroalgal biomass production and its conversion to bioenergy and value-added products, cellular biotechnology for seedling production and genetic improvement of seaweeds, seaweed biorefinery, nutraceutical supplements.

ICT Mumbai

Figure 3 (A) Schematics illustrating the mechanisms behind and advantages of lymph node delivery by nanoparticle vaccines. Nanoparticles can exploit both cell-mediated and convective transport for lymph node localization.

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