

**Surface-Functionalized Ceramics: For Biotechnological
And Environmental Applications By Laura
Treccani;Kuroschi Rezwan**

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Lee Giles, Pradeep Teregowda): Abstract Surface functionalized magnetic iron oxide nanoparticles which have been widely used in the biotechnology and catalysis.

Bioactivation of alumina by surface modification:

Feb 5, 2009 Objectives: In regenerative medicine, surface engineering of bioinert 26, 20, 3310 Wiley Online Library; 9 Laura Treccani, Tanja Yvonne Klein, Fabian Meder, Karoline Pardun, Kurosch Rezwan, Functionalized ceramics for biomedical, biotechnological and environmental applications, Acta Biomaterialia,

Cell sensing and response to micro- and

Jun 21, 2007 Nano-structured and functionalized surfaces for cytocompatibility improvement and bactericidal Biotechnology Advances. hydrogels for regenerative medicine applications .. Comparison of micropatterning methods for ceramic surfaces. Marzellus Grosse Holthaus, Laura Treccani, Kurosch Rezwan.

Boehmite derived surface functionalized carbon

The TEM micrographs of surface functionalized CNTs Wegmann M, Michen B, Graule T. Nanostructured surface modification of microporous ceramics for efficient

Final program (pdf) - deutsche gesellschaft für

Apr 22, 2015 biological environment at the same The application of the nanostructures was demonstrated in various fields Kurosch Rezwan sensitive to chemical and physical cues of material surfaces under . Engineering and Biotechnology, . Peter I. Lelkes is the Laura H. Carnell Professor and Founding Chair of

Synthesis, characterization and dielectric

characterization and dielectric properties of surface functionalized ferroelectric ceramic/epoxy resin is coated on the surface of ceramic

Advanced ceramics

Surface functionalized ceramics Enzyme-based biotechnological processes Education. 2009 - 2011. M.Sc. (FH) in Industrial Biology, University of Applied Sciences

Surface functionalized magnetic nanoparticles for

Surface functionalized magnetic Journal of Chemical Engineering , Vol Department of Biotechnology

Production of functionalized biopolyester granules

surface-functionalized PHB granules in a food-grade homofermentative lactic acid bacterium. and Biotechnology, Tokyo Institute of Technology, Japan)

Selective surface chemistry using alumina

Dec 6, 2010 Functionalized ceramics for biomedical, biotechnological and environmental applications. Laura Treccani , Tanja Yvonne Klein , Fabian Meder

Doi:10.1088/1757-899x/18/19/192007 - iopscience

covalently attachment on surface-functionalized mesoporous silica materials . K Murai. 1,2, Ceramics for Medicine, Biotechnology and Biomimetics IOP Publishing

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Surface-functionalized ceramics: for

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A surface functionalized nanoporous titania

A surface functionalized nanoporous titania integrated microfluidic biochip: India, , ; Department of Biotechnology, Delhi Technological University, Shahbad

Polymeric and ceramic nanoparticles in biomedical

Polymeric and ceramic nanoparticles have been Such nanoparticles are surface functionalized with Nanomedicine is a relatively new area of biotechnology,

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Adsorption and orientation of the physiological

Apr 8, 2013 Faculty of Production Engineering, Advanced Ceramics, Center for Biomolecular Understanding the interrelation between surface chemistry of colloidal the design of materials for biotechnological and nanomedical applications. Fabian Meder , Supreet Kaur , Laura Treccani , and Kurosch Rezwan.

Microfabricated grooved substrates influence

Dec 6, 2008 Micro-Scale Patterning of Cells and their Environment. Xingyu Jiang Titanium Coated With Calcium Phosphate and Functionalized With a Type I Collagen- Derived Peptide Marzellus Grosse Holthaus, Laura Treccani, Kurosch Rezwan Micromachining of ceramic surfaces: Hydroxyapatite and zirconia.

Nazanin zanjanizadeh ezazi biofunctionalization of

APPLICATIONS. Master of Science immobilization were investigated on both ceramics. In addition, ALP functionalized planar surface and its behaviour was Dr-Ing. Kurosch Rezwan to accept my thesis position and give me Laura Treccani to give me this opportunity to be a member of this research group, her.

Surface functionalization of alumina ceramic

Jan 18, 2012 Surface Functionalization of Alumina Ceramic Foams with Organic Ligands. Horacio Comas , Vincent Functionalized ceramics for biomedical, biotechnological and environmental applications. Laura Treccani , Tanja Yvonne Klein , Fabian Meder , Karoline Pardun , Kurosch Rezwan. Acta Biomaterialia

" surface functionalized nanoparticles for dna and

combining with the controlled interactions of biomolecules with surface functionalized nanoparticle provide versatile tools for biotechnology.

Fluidized bed production of surface functionalized

This "surface functionalized" consists of a closed-end ceramic tube. External heating is applied using a standard tube furnace. One of the

Surface- functionalized latexes for

surface-functionalized polymer latexes proved to offer suitable colloidal supports in many biotechnological applications number of biotechnological,

Highly efficient enzyme- functionalized porous

Jul 24, 2012 Environmental Science & Technology In this study, porous ceramic microtubes made of yttria stabilized Immobilization studies of lysozyme on the membrane surface reveal Nils Hildebrand , Susan K ppen , Ludmilla Derr , Kaibo Li , Mohammad Koleini , Kurosch Rezwan , and Lucio Colombi Ciacchi.

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Figure 7:magnetic iron oxide nanoparticles:

Surface functionalized magnetic iron oxide nanoparticles are a kind of novel functional materials, which have been widely used in the biotechnology and catalysis.

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The project, Centre for Functional and Surface-Functionalized Glasses (FunGLASS), 39th International Conference and Expo on Advanced Ceramics and Composites.

Laura treccani dr. rer. nat. - advanced ceramics

Advanced Ceramics Group, University of Bremen (Germany) course Bioceramics; course Material surfaces for biotechnological applications; Student projects Schumacher, T., Klein, T.Y., Treccani, L., Rezwan, K. and biodegradability of organically functionalized colloidal silica particles in aqueous environment

Modulation of silica nanoparticle uptake into

Shakiba Shahabi a, Laura Treccani a,* , Ralf Dringen b, Kurosch Rezwan a synthesized five different single- or multi-functionalized fluorescent silica NPs Prior to cellular uptake, these proteins adsorb rapidly onto the surface of NPs, FFSNPs after application of 50 and 100 g/ml into HOB cells was quantified by

Silane-based coatings - ceramic industry

of the nanoparticle surface. Functionalized nanoparticles SiO_x surface to the silane glass or ceramic object; the coated surface is

Figure 2:magnetic iron oxide nanoparticles:

Surface functionalized magnetic iron oxide nanoparticles are a kind of novel functional materials, which have been widely used in the biotechnology and catalysis.

Functionalized ceramics for biomedical,

Functionalized ceramics for biomedical, Surface functionalization has become of paramount importance and is considered a biotechnological and environmental

Influence of the chemistry of surface

Influence of the Chemistry of Surface Functionalized Ceramic Foam Filters on the Surface functionalized carbon bonded foam filters have been evaluated

Surface- functionalized ceramics - laura

Surface-Functionalized Ceramics For Biotechnological and Environmental Applications. av Laura Treccani, Kurosch Rezwani (inbunden SURFACE MODIFICATION,

Surface- functionalized gold nanoparticles

Surface-functionalized gold nanoparticles mediate bacterial It was also non-toxic to the bacterium making it suitable for biotechnological applications.

Surface modification of zirconium oxide particles

Jul 10, 1996 Functionalized ceramics for biomedical, biotechnological and environmental applications. Laura Treccani , Tanja Yvonne Klein , Fabian Meder , Karoline Pardun , Kurosch Rezwani. Acta Biomaterialia 2013 9 (), 7115-7150

Surface modification - wikipedia, the free

Surface modification is the act of modifying the surface of a material by bringing physical, Almost all types of materials, including metals, ceramics,

Symposium 13: ceramics for medicine, biotechnology

Symposium 13: Ceramics for Medicine, Biotechnology and Biomimetics . Chikara Ohtsuki 2011 IOP Conf. Ser.: Mater. Sci. Eng. 18 192000

Cover image - sciencedirect

Applications and emerging trends of hyaluronic acid in tissue engineering, as a dermal filler and in Functionalized ceramics for biomedical, biotechnological and environmental applications. Review Article; Pages 7115-7150; Laura Treccani, Tanja Yvonne Klein, Fabian Meder, Karoline Pardun, Kurosch Rezwani. Abstract

Functionalization of silica surfaces

Functionalization of Silica organically modified ceramics, of various functional compounds to the silica surface, the formed functionalized silica

Magnetic iron oxide nanoparticles: synthesis and

Surface functionalized magnetic iron oxide nanoparticles are a kind of novel functional materials, which have been widely used in the biotechnology and catalysis.

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