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Hydroxyapatite Coatings For Biomedical Applications
Hydroxyapatite coatings are of great importance in the biological and biomedical coatings fields, especially in the current era of nanotechnology and bioapplications. With a bonelike structure that promotes osseointegration, hydroxyapatite coating can be

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applied to otherwise bioinactive implants to make their surface bioactive, thus achieving faster healing and recovery.

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Hydroxyapatite Coatings for Biomedical Applications by Sam ...

Hydroxyapatite (HA) is a major constituent of hard tissues such as bone and teeth. Synthetic HA is therefore of great interest as a transplant material to replace these tissues.

(PDF) Hydroxyapatite (HA) coatings for biomaterials

The present research focuses on the preparation of novel samarium doped based hydroxyapatite coatings for biomedical applications. For this purpose, the antimicrobial properties of the 5Sm-HAp suspensions, targets and coatings were evaluated by being tested against reference microbial strains Escherichia coli ATCC 25922, Staphylococcus aureus ...

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Abstract. Hydroxyapatite [HAp, Ca₁₀(PO₄)₆(OH)₂] is the most widely used calcium phosphate bioceramic for coatings of

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metal prostheses because of its osteogenic property and ability to form strong bonds with the host bone tissues. There are many methods available for making the HAp coating.

Hydroxyapatite (HAp) for Biomedical Applications ...

In Bioceramics, it is classed as a bioactive material, which means bone tissue grows directly on it when placed in apposition without intervening fibrous tissue. Hydroxyapatite is hence commonly used as bone grafts, fillers and as coatings for metal implants.

Hydroxyapatite (HAp) for Biomedical Applications - 1st Edition

Consequently, most of the researchers have introduced surface modification by applying bioactive ceramics such as hydroxyapatite ($\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$) as a bioactive coating on the metallic implants to the implant to enhance bone-bonding ability [9, 10].

Hydroxyapatite-Based Coating on Biomedical Implant ...

I.R. Gibson, in Hydroxyapatite (Hap) for Biomedical Applications, 2015 Knee implants Hydroxyapatite coatings have also been used in uncemented knee prostheses, with coatings applied by plasma spraying to the femoral and or tibial components; these have more than 20 years of clinical use.

Hydroxyapatite Coating - an overview | ScienceDirect Topics

The coatings were produced by pulsed laser deposition using ablation targets of pure crystalline hydroxyapatite. The fraction of tetracalcium phosphate phase in the coatings was controlled by varying the substrate temperature and the partial pressure of water vapor in the deposition chamber.

Control of phase composition in hydroxyapatite ...

Post-implant infections are a major health problem, and it is well-known that treating them with conventional drugs is accompanied by many disadvantages. The development of new biomaterials with enhanced antimicrobial properties are of major interest for the scientific world. The aim of this study was to

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synthesize and characterize hydroxyapatite doped with Samarium ($\text{Ca}_{10-x}\text{Sm}_x(\text{PO}_4)_6(\text{OH})_2$...

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Hydroxyapatite Coatings for Biomedical Applications ...

Among the metals, titanium and its alloys are considered most excellent and indispensable material for t... Additively manufactured titanium alloys and effect of hydroxyapatite coating for biomedical applications: A review - Franklin Anene, Jaafar Aiza, Ismail Zainol, Azmah Hanim, Mohd Tahir Suraya, 2020. Skip to main content.

Additively manufactured titanium alloys and effect of ...

Calcium phosphate (CaP) bioceramics are widely used in the field of bone regeneration, both in orthopedics and in dentistry, due to their good biocompatibility, osseointegration and osteoconduction. The aim of this article is to review the history, structure, properties and clinical applications of ...

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