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This review will present applications in medicine that are revolutionizing the way operations are carried out, disrupting prosthesis and implant markets as well as dentistry, to name

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but a few. The relatively new field of bioprinting, that is printing with cells, will also be briefly discussed. As will be presented below, numerous applications

...

Applications of 3D printing in healthcare - PMC

3D printing alias additive manufacturing

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can transform 3D virtual models created by computer-aided design (CAD) into physical 3D objects in a layer-by...

3D printing of hydrogels: Rational design strategies ... - ScienceDirect

A commonly applied definition of tissue engineering, as stated by Langer and Vacanti, is "an interdisciplinary field that

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applies the principles of engineering and life sciences toward the development of biological substitutes that restore, maintain, or improve [Biological tissue] function or a whole organ". In addition, Langer and Vacanti also state that there are three main types of tissue ...

Tissue engineering - Wikipedia

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3. Materials 3.1. Metals and alloys. Metal additive manufacturing is showing excellent perspectives of growth. The number of companies selling AM systems went from 49 in 2014 to 97 in 2016, amongst the 49% involved with metal AM []. This technology has been used predominantly for research, prototyping or advanced applications in

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the aerospace industry, e.g.
manufacturing the F-15 Pylon Rib by ...

Additive manufacturing (3D printing): A review of ... - ScienceDirect

1. Introduction. Polymer 3D (three-dimensional) printing has advanced rapidly in recent years with many areas

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of research now translating to engineered products, especially in medical fields [1,2,3,4]. Polymer printing is advantageous for a broad range of medical areas that benefit from the diversity of polymer material characteristics and processing approaches [5,6,7,8]. 3D printing is a ...

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Polymer 3D Printing Review: Materials, Process, and Design Strategies ...

1. Introduction. At the present time, animal and human cell cultures are significant tools widely used in many branches of live science. Different variants of cell culture found application in modeling diseases, IVF technology,

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stem cell and cancer research,
monoclonal antibody production,
regenerative medicine and therapeutic
protein production.

History of Cell Culture - IntechOpen - Open Science Open Minds | IntechOpen

Hydrogel is a type of versatile platform

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with various biomedical applications after rational structure and functional design that leverages on material engineering to modulate its physicochemical ...

Current hydrogel advances in physicochemical and biological ... - Nature

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Coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is one of the deadliest pandemics in history. SARS-CoV-2 not only infects the respiratory ...

Human organoid models to study SARS-CoV-2 infection - Nature

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The main function of skeletal muscle is to produce contractile force (CF) (Vandenburgh et al., 2008; Shadrin et al., 2016), which is necessary for locomotion, respiration, and metabolic processes (Kaji et al., 2010; Qazi et al., 2015; Wang et al., 2019; Yusuf and Brand-Saberi, 2012). CF may be compromised during aging or due to

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major injuries or genetic mutations, such as in muscular dystrophies.

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