

## Mechanical Response Of Engineering Materials

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### **Mechanical Response Of Engineering Materials**

Developing a new generation of artificial muscles and soft nanorobots for drug delivery are some of the long-term goals of 4D-BIOMAP, an ERC research project being undertaken by the Universidad Carlos ...

### **Smart magnetic soft materials to develop artificial muscles and therapeutic robots**

Engineered, autonomous machines combined with artificial intelligence have long been a staple of science fiction, and often in the role of villain like the Cylons in the "Battlestar Galactica" reboot, ...

### **A future of helpful engineered 'living' machines?**

New soft, responsive metamaterial holds potential for wide variety of societal benefits. Engineered, autonomous machines combined with artificial intelligence have long been a staple of science ...

### **Soft, Mechanical Metamaterial That Can "Think" Offers Potential of Helpful "Living" Machines in the Future**

Soft materials are inherently flexible and make suitable candidates for soft robots intended for specific tasks that would otherwise not be achievable (e.g., smart grips capable of picking up objects ...

### **Soft Adaptive Mechanical Metamaterials**

Researchers believes that electrochemical biosensors will help defeat the coronavirus. These are high sensitivity and low cost diagnostic tools for detecting Covid-19.

### **The new study of emerging materials helping in detection of COVID-19**

ASME's new Career Center and Job Board is designed to assist members at every career stage, making it as easy as possible to find that next great opportunity. One significant advantage ASME has over ...

### **Future-proof your engineering career**

The partners launched their collaboration at the newly expanded Thin-Wall Packaging Applications Centers at KraussMaffei's Swiss subsidiary and manufacturer of Netstal injection molding machines ...

### **SABIC and KraussMaffei Collaborate on Development of Innovative Thin-Wall Packaging**

For this reason, they have become a popular choice of biomaterial in many biomedical applications including tissue engineering, drug delivery, and biosensing. The physical and biological requirements ...

### **Tunable Hydrogels: Introduction to the World of Smart Materials for Biomedical Applications.**

A collaboration first announced by SABIC and KraussMaffei HighPerformance in December 2020, has officially started at the latter's application centre in Switzerland. The partnership seeks to ...

### **SABIC and KraussMaffei launch thin-wall packaging collaboration**

Hiperbaric has sealed an Industrial R&D Collaboration Alliance with Aenium to show benefits of HIP (hot isostatic pressing) technology for AM.

### **Hiperbaric and Aenium Team Up to Show Benefits of Hot Isostatic Pressing (HIP) Technology for Additive Manufacturing**

Associate professor Michael Shafer and professor Heidi Feigenbaum of Northern Arizona University's Department of Mechanical Engineering, along with graduate student Diego Higuera-Ruiz, published a ...

### **Mechanical engineers develop new high-performance artificial muscle technology**

In this active collaboration with the Institute of Microelectronics (IME), the project aims to develop guidelines for implementation of adhesive flip chip interconnect technology ...

### **School of Materials Science and Engineering**

To the untrained eye, the following colorful images might look like art, but they're actually something unexpected: science. These are maps of metals such as titanium, nickel, and steel created using ...

### **These Microscopic Maps of 3D-Printed Metals Look Like Art. They May Be a Glimpse of the Future**

University of Wollongong (UOW) researchers have mimicked the supercoiling properties of DNA to develop a new type of artificial muscle for use in miniature robot applications. Their research is ...

### **Scientists develop new type of artificial muscle inspired by DNA supercoiling**

Photo: NAU mechanical engineer Michael Shafer and graduate student Diego Higuera-Ruiz conducting a visual inspection of their new compliant robotic arm actuated with cavatappi artificial muscles In ...

### **NAU mechanical engineers develop new high-performance artificial muscle technology**

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