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Materials For  
Applications outlines  
synthetic and biological  
materials that are  
responsive under  
different stimuli, their  
surface design and  
modification  
techniques, and  
applicability in  
regenerative  
medicine/tissue  
engineering, drug  
delivery, medical  
devices, and

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biomedical diagnostics.

Surfaces And

**Switchable and  
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**and Materials for ...**

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Applications | Surface  
modification of

biomaterials can

ultimately determine

whether a material is

accepted or rejected

from the human body,

and a responsive

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surface can further  
make the material  
smart and intelligent.

**Switchable and  
Responsive Surfaces  
and Materials for ...**

Some responses in the  
form of physical or  
phase changes can be  
“switchable” or  
“reversible.”. With the  
development of  
materials science,  
especially with the  
development of  
synthetic polymers and



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surface chemistry,  
these materials and  
surfaces have been  
designed for broad  
applications.

Applications

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and Materials for ...**

“Switchable and  
Responsive Surfaces  
and Materials for  
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Applications” is a book  
that presents in depth  
reviews of state of the  
art responsive

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mechanisms of  
materials and surfaces  
that find applications in  
the biomedical field.

Biomedical

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Applications. February  
2015; DOI: 10.1016/B9  
78-0-85709-713-2.000  
05-5. In book:

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Applications outlines  
synthetic and biological  
materials that are  
responsive under  
different stimuli, their  
surface design and...

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**Switchable and Responsive Surfaces and Materials for ...**

- Protein adsorption on thermo-responsive surfaces7.4.
- Protein adsorption on pH and/or ionic strength-responsive surfaces7.5.
- Protein adsorption on other responsive surfaces7.6.

Synergistic effect of surface chemistry and nanostructures on protein adsorption7.7.

Aspects for future

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Surfaces And

research8. Interaction  
of responsive/switchable  
surfaces with ...

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**Switchable and  
responsive surfaces  
and materials for ...**

Dual-stimuli-responsive  
surfaces are reported  
here that work under  
the external stimuli of  
temperature and/or pH,  
as demonstrated in the  
Figure: When the pH  
and/or temperature is  
varied, the contact

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angles (CAs) of the dual-responsive materials change reversibly. The general change in trend of wettability is that half of the water CAs are almost all larger than  $130^\circ$  (red background) and ...

### **Dual-Responsive Surfaces That Switch between ...**

We believe that such surfaces with thermal-responsive

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superhydrophobicity,  
anisotropic wettability,  
and switchable  
adhesion will have  
enormous potential  
applications in non-loss  
droplet transfer,  
biological detection,  
and lab-on-chip  
devices.

**Anisotropic,  
adhesion-  
switchable, and  
thermal-responsive**

...

Considering the  
*Page 15/21*

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complexity of biological

environments, surfaces

with multistimulus

responsive switchable

bioactivity are of great

interest. In the work

reported herein, a

multistimulus

responsive biointerface

with on-off switchable

bioadhesion (protein

adsorption, bacterial

adhesion, and cell

adhesion) and surface

functions in response

to change in

temperature, pH, or



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sugar content is  
developed.

**Multistimulus  
Responsive  
Biointerfaces with  
Switchable ...**

has led to a higher  
level of understanding  
of the switchable  
surfaces, and to a  
more precise  
interpretation and  
rationalization of the  
observed data. The  
perspectives on the  
challenges and

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### Responsive

opportunities for future progress on stimuli-responsive surfaces are also presented. 1.

#### INTRODUCTION

Surfaces with stimuli-responsive properties have emerged ...

#### **Electrically Responsive Surfaces: Experimental and ...**

A stimuli-responsive gel impregnated surface with switchable lipophilic/oleophobic

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Li , a Yingzhi Liu , a

Ming Lei , a Ansu Sun ,

b Sreepathy Sridhar , b

Yifan Li , b Xuqing Liu ,

c Haibao Lu , \* a Yong

Qing Fu b and Ben Bin

Xu \* b

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**A stimuli-responsive  
gel impregnated  
surface with ...**

Surface modification of  
biomaterials can

ultimately determine

whether a material is

accepted or rejected

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from the human body,

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