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polymers are the most

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Surfaces and Materials for

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that presents in depth reviews of state of the art responsive mechanisms of materials and surfaces that find applications in the biomedical field. Switchable and Responsive Surfaces and Materials for ... Switchable and Responsive Surfaces and Materials for Biomedical Applications outlines synthetic and biological materials that are responsive under different stimuli, their surface design and... 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 research8. Interaction of
responsive/switchable surfaces with
... 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
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°
(red background) and
... Dual-Responsive Surfaces That
Switch between ... We believe that
such surfaces with thermal-
responsive 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 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 sugar content is developed. Multistimulus Responsive Biointerfaces with Switchable ... Smart bioactive surfaces that can modulate

interactions with biological systems are of great interest. In this work, a surface with switchable bioactivity in response to sugars has been developed. It is based on dynamic covalent bonding between phenylboronic acid (PBA) and secondary hydroxyls on the “wide” rim of β -cyclodextrin (β -CD). Sweet Switch: Sugar-Responsive Bioactive Surfaces Based on ... Dongyin Ren, Shengming Xu, Dejun Sun, Qibao Wang, Zhenghe Xu, CO₂-switchable dispersion of a natural chitosan and its application as a responsive pickering emulsifier, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 10.1016/j.colsurfa.2018.06.068, 555, (507-514), (2018). A Conventional Surfactant Becomes CO₂-Responsive in the ... As an

important type of smart membrane, stimuli-responsive membranes with switchable separation capability and permeability are urgently needed for developing advanced filtration membranes. In this study, smart membranes with anion-/near-infrared (NIR)-responsive and improved anti-fouling properties were fabricated by introducing poly(ionic liquid) (PIL) modified Fe₃O₄ nanoparticles on the surfaces and pore channels of polyethersulfone membranes through the vapor induced phase separation ... Vapor induced phase separation towards anion-/near ... A switchable cross-species liquid-repellent surface is developed that can rapidly switch between two distinct liquid-repellent modes: i) the superhydrophobic mode, modeled

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after lotus leaves, and ii) the slippery mode, modeled after the pitcher-plant peristome. Adaptive liquid repellency and programmable fog harvesting are demonstrated as application examples for the new switchable ... A Switchable Cross-Species Liquid Repellent Surface ... switchable and responsive surfaces and materials for switchable and responsive surfaces and materials for biomedical 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 biomedical diagnostics. Switchable And Responsive Surfaces And

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