

4D Nanomembrane Materials for Electronic Skin and Microrobots

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4D materials change their shape in time. If prepared as stimuli-responsive nanomembranes on a chip surface, they are attractive for various scientific disciplines ranging from electronic skin to microrobotic systems. This talk presents the fascinating application potential of 4D materials for soft electronic skin [1], highly integrated microelectronic catheters [2] and medical and microelectronic microbots [3-5]. Particular attention will be paid to the challenge of on-board energy supply for autonomously acting smart dust microsystems [6-8].

References

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Figures

