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The invention relates to a microsensor or nanosensor for chemical or biological species with surface plasmons. The inventive sensor comprises studs (2) which are distributed over the surface of a support (1), said studs (2) measuring less than 1  $\mu\text{m}$ . Moreover, the studs are made from an electrically-conductive material and can immobilise the chemical or biological species.

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The 9/11 attack on US soil has inadvertently heightened the need for preparation for other potential means of terrorist attack. In particular, both biological and chemical warfare have been at the top of the priority list for most governmental agencies as these reagents can be covertly prepared and disseminated to result in both widespread fear and casualty.

### **Nano and Microsensors for Chemical and Biological**

In 1984, he joined the technical staff of Sandia National Laboratories in Albuquerque, NM, where he has worked on microfabrication techniques for microelectronics, optoelectronics, and microsensors. He is currently Manager of the Microsensors Science and Technology Department, which develops chemical and biological microsensors.

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