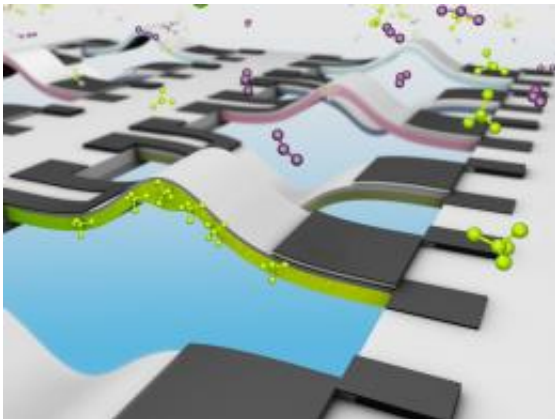


New gas sensor chip paves the way to autonomous e-nose

June 9 2010



Closely-packed array of individually vibrated microbridge resonators can be used for separation of gases upon application of specific coatings.

Imec and Holst Centre researchers have developed very sensitive integrated sensing elements for gas detection. The polymer-coated microbridges in high-density arrays can detect ppm-level concentrations of vapors using on-chip integrated read-out techniques. The demonstrated technology is very suitable for miniaturization of electronic nose devices thanks to the low power consumption (

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