

Functional Surfaces For Liquid Crystal-Based Detection Of Chlorine Gas

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The Invention

Liquid crystal-based devices for detecting chlorine in a sample and methods of using such devices to detect chlorine are disclosed. Such devices have a substrate surface that includes either metal cations or a metal that is in contact with a composition that includes a liquid crystal. When the device is contacted with a sample that contains chlorine, an observed change in the orientational ordering of the liquid crystal signals the presence of the chlorine. In the absence of chlorine, no change in orientational ordering occurs.

Additional Information

For More Information About the Inventors

• Emmanouil Mavrikakis

Tech Fields

Analytical Instrumentation, Methods & Materials : Sensors

For current licensing status, please contact Jennifer Gottwald at jennifer@warf.org or 608-960-9854

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