

Title (en)

SPATIOTEMPORAL AND GEOMETRIC OPTIMIZATION OF SENSOR ARRAYS FOR DETECTING ANALYTES IN FLUIDS

Title (de)

RAUMZEITLICHE UND GEOMETRISCHE OPTIMIERUNG VON SENSOR-ARRAYS ZUR ERKENNUNG VON ANALYTEN IN FLUIDEN

Title (fr)

OPTIMISATION SPATIO-TEMPORELLE ET GEOMETRIQUE DE RESEAUX DE CAPTEURS DESTINES A LA DETECTION D'ANALYTES DANS DES FLUIDES

Publication

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Application

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Abstract (en)

[origin: WO0223134A1] Sensor arrays and sensor array systems for detecting analytes in fluids. Sensors (530) configured to generate a response upon introduction of a fluid containing one or more analytes can be located on one or more surfaces/faces (540) relative to one or more fluid channels (500) in a array. Fluid channels can take the form of pores or holes in a substrate material. Fluid channels (500) can be formed between one or more substrate plates. Sensor (530) can be fabricated with substantially optimized sensor volumes to generate a response having a substantially maximized signal to noise ratio upon introduction of a fluid containing one or more target analytes. Methods of fabricating and using such sensor arrays and systems are also disclosed.

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