

# **Fully Electronic CMOS DNA Sensor Chip (Aktuelle Berichte Aus Der Mikrosystemtechnik - Recent Developments In MEMS) By Alexander Frey**

**By Alexander Frey**

**Label free CMOS DNA image sensor based on the -**  
Abstract. This paper describes a label free and fully electronic  
32 32 CMOS DNA image sensor fabricated in a 1-poly 1-metal CMOS  
technology, suitable for  
<http://www.sciencedirect.com/science/article/pii/S0956566309001754>

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**CMOS Sensor Interface Arrays for DNA Detection - -**  
Sensor arrays for fully electronic DNA detection based on an  
extended CMOS process are discussed. An introduction to the used  
DNA detection method and to the modified  
[http://link.springer.com/chapter/10.1007%2F978-1-4020-2805-2\\_4](http://link.springer.com/chapter/10.1007%2F978-1-4020-2805-2_4)

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**A fully electronic label-free DNA sensor chip -**

A fully electronic label-free DNA sensor DNA chip for fully electronic, label-free DNA in 0.5- $\mu$ m CMOS technology and it features an

<http://infoscience.epfl.ch/record/138453>

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Hftad, 2011. Pris 623 kr. K p Fully Electronic CMOS DNA Sensor Chip (9783832298272) av Alexander Frey p Bokus.com

<http://www.bokus.com/bok/9783832298272/fully-electronic-cmos-dna-sensor-chip/>

**A CMOS, Fully Integrated Sensor for Electronic -**

IEEE ELECTRON DEVICE LETTERS, VOL. 27, NO. 7, JULY 2006 595 A CMOS, Fully Integrated Sensor for Electronic Detection of DNA Hybridization Massimo Barbaro, Annalisa

[http://www.academia.edu/392016/A\\_CMOS\\_Fully\\_Integrated\\_Sensor\\_for\\_Electronic\\_Detection\\_of\\_DNA\\_Hybridization](http://www.academia.edu/392016/A_CMOS_Fully_Integrated_Sensor_for_Electronic_Detection_of_DNA_Hybridization)

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**5 5 CMOS capacitive sensor array for detection of -**

This work presents miniaturized CMOS (complementary metal oxide semiconductor) capacitive sensors for detection of the neurotransmitter dopamine (DA)

<http://www.pubfacts.com/detail/20855189/55-CMOS-capacitive-sensor-array-for-detection-of-the-neurotransmitter-dopamine>

### **Design of an integrated potentiostat circuit for -**

A concrete design example used in a fully electronic DNA sensor array CMOS chip is shown. Design of an integrated potentiostat circuit for CMOS bio sensor chips.

<http://www.citeulike.org/article/4017966>

### **CMOS SENSOR INTERFACE ARRAYS FOR DNA DETECTION -**

[11] F. Hofmann et al. , "Fully electronic DNA detection on a CMOS chip: device and process issues", Tech "A fully electronic DNA sensor with 128 positions and

[http://link.springer.com/content/pdf/10.1007/978-1-4020-2805-2\\_4.pdf](http://link.springer.com/content/pdf/10.1007/978-1-4020-2805-2_4.pdf)

### **Fully electronic DNA hybridization detection by a -**

The new device is realized in a standard CMOS process, Fully electronic DNA hybridization detection by a CMOS sensors; Electronic DNA hybridization

<http://www.sciencedirect.com/science/article/pii/S0925400506002656>

### **Publikationen -**

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<https://www.imtek.de/professuren/anwendungsentwicklung/publikationen>

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<http://publik.tuwien.ac.at/publist.php?lang=2&inst=1010&sort=3&inv=1>

### **A Low-Voltage and Label-Free Impedance-Based -**

A Low-Voltage and Label-Free Impedance-Based Miniaturized CMOS A Fully Electronic DNA Sensor with 128 An Electronic DNA Sensor Chip Using

<http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/view/2056>

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**Low Power Noise Immune Circuit for Implantable -**

Low Power Noise Immune Circuit for Implantable CMOS

Neurochemical Sensor Applied in Neural (2011)

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.399.1040>

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