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It is found that the  
bubble dynamics in  
ssDNA solutions is

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different from that in  
DI water, and an  
obvious retardation  
effect on the motion of  
the micro bubble was  
observed at high  
ssDNA ...

**(PDF) Micro bubble  
dynamics in DNA  
solutions**

Micro bubble dynamics  
in DNA solutions and  
400  $\mu\text{m}$  in thickness)  
was used as the  
substrate. The wafer  
was coated with 0.5

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$1\ \mu\text{m}$  silicon oxide and  
 $1.5\ \mu\text{m}$  low stress  
silicon nitride on both  
sides of the wafer by  
wet thermal oxidation  
and low-pressure  
chemical vapor  
deposition  
(LPCVD) processes,  
respectively.  
 $0.01\ \mu\text{m}$  thick Ti film and

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dynamics in DNA  
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A micro vapor bubble  
was generated in

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ssDNA using a micro bubble actuator, which is capable of producing periodic and stable single vapor bubbles under pulse heating. The growth and collapse of the micro vapor bubble were visualized by a high-speed CCD camera, and the bubble dynamics was investigated at different ssDNA concentrations and under various pulse

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NASA/ADS**

The bubble count and size dispersity were very similar to those generated from a suspension of DPPC:DPPA:DSPE-PAA without DNA attached. Since the generation of nonlinear echoes depends on the size oscillations of the



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microbubble under  
ultrasound, we  
employed a home-built  
modulated light  
scattering apparatus  
described previously to  
distinguish ...

**DNA-Coated  
Microbubbles with Bi  
ochemically-Tunable**

...

We report the first  
measurement of the  
dynamics of bubble  
formation in double-  
stranded DNA.

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Fluctuations of fluorescence of a synthetic DNA construct, internally tagged with a fluorophore and a quencher, are monitored by fluorescence correlation spectroscopy. The relaxation dynamics follow a multist ...  
Bubble Dynamics in Double-Stranded DNA

**Bubble Dynamics in**  
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**Double-Stranded  
DNA** Solutions Institute  
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Combining real-time fluorescence microscopic imaging and mathematic modeling, we estimated the pore size in 20 cells with single bubble attached, and found out that when the initial pore radius was  $> 35$  nm, the pore allowed plasmid DNA passage, independent of pore resealing dynamics.

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**Ultrasound and  
microbubble  
mediated plasmid  
DNA uptake: A ...**

To improve the performance of the micro DNA biosensor, we propose to introduce distributed active bubble perturbations in the hybridization solution for the purpose of enhancing the molecular diffusion and consequently the DNA

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hybridization process.  
A novel micro bubble  
actuator of specially  
designed micro heater  
(10x3 $\mu\text{m}^2$ ) and single  
bubble system was  
developed based on  
MEMS technology for  
bubble generation with  
high controllability and  
reliability.

**Micro bubble  
actuator for DNA  
hybridization  
enhancement ...**

More recently,  
*Page 13/28*

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transient micro-thermal bubble generation and its subsequent dynamic behavior in a 60-base single-stranded DNA (ssDNA) solution was investigated with particular emphases on the effects of DNA concentration and the total viscosity of the solution on bubble dynamics (Deng et al., 2004). It was found that the DNA macromolecules had a

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strong retardation  
effect on bubble  
dynamics at high  
concentrations.

**Two-dimensional  
micro-bubble  
actuator array to  
enhance the ...**

Bubble dynamics under  
a horizontal micro  
heater array. Xiaopeng  
Qu and Huihe Qiu 1.  
Published 24 August  
2009 • 2009 IOP  
Publishing Ltd ... Deng  
P G, Lee Y K and Cheng

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P 2005 Measurements  
of micro bubble  
nucleation  
temperatures in DNA  
solutions J. Micromech.  
Microeng. 15 564-74.  
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## **Bubble dynamics under a horizontal micro heater array**

...

DNA bubbles result  
from the conversion of  
a segment of the  
double-stranded



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helices into two isolated single strands due to the hydrogen bond breaks. Their formation within a dsDNA molecule leads to a local decrease in the rigidity of the DNA molecule.

**How does temperature impact the conformation of single DNA ...**

Micro-bubble response with acoustic parameters is

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consistent with experiments and provides physical insight to the micro-bubble oscillation dynamics. Micro-bubbles in the form of encapsulated contrast agents are conventionally used in ultrasound diagnostics.

## **Dynamics of micro-bubble sonication inside a phantom ...**

With the combination of high-speed video

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microscopy and 3D  
confocal fluorescence  
microscopy, we show  
the spatiotemporal  
correlation between  
the microbubble  
dynamics and  
intracellular plasmid  
DNA distribution. Two  
ultrasound modes  
(high pressure short  
pulse and low pressure  
long pulse) were  
chosen to trigger  
different plasmid DNA  
uptake routes.

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**Ultrasound and  
Microbubble  
Mediated Plasmid  
DNA Uptake: A ...**

Measurements of micro bubble nucleation temperature in single-stranded DNA (ssDNA) solution with four different concentrations (0.4, 1, 6.4 and 10  $\mu\text{g } \mu\text{l}^{-1}$ ) and under different heat fluxes are ...

**(PDF) Measurements  
of micro bubble**

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**nucleation  
temperatures ...**

Dynamic Micro-bubble  
Generator for Water  
Processing and  
Cleaning Applications  
Abstract The micro-  
bubble technology in  
water is widely known  
and effectively used,  
but the fundamental  
mechanisms of the  
micro-bubble  
generation and  
characteristics are not  
clearly established.

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## **Understanding the Fundamental Mechanisms of a Dynamic ...**

Microfluidics emerged in the beginning of the 1980s and is used in the development of inkjet printheads, DNA chips, lab-on-a-chip technology, micro-propulsion, and micro-thermal technologies. Typically, micro means one of the following features: Small volumes ( $\mu\text{L}$ ,  $\text{nL}$ ,  $\text{pL}$ ,  $\text{fL}$ )

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Small size; Low energy  
consumption;  
Microdomain effects

## **Microfluidics - Wikipedia**

Even under  
physiological  
conditions, the DNA  
double-helix  
spontaneously  
denatures locally,  
opening up fluctuating,  
flexible, single-  
stranded zones called  
DNA-bubbles. We  
present a dynamical

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description of this DNA-bubble breathing in terms of a Fokker-Planck equation for the bubble size, based on the Poland-Scheraga free energy for DNA ...

### **Dynamic Approach to DNA Breathing**

We report the first measurement of the dynamics of bubble formation in double-stranded DNA.

Fluctuations of fluorescence of a



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synthetic DNA  
construct, internally  
tagged with a  
fluorophore and a  
quencher, are  
monitored by  
fluorescence  
correlation  
spectroscopy.

**[PDF] Bubble  
dynamics in double-  
stranded DNA. |  
Semantic ...**

It has also be found  
that the DNA dynamics  
in the presence of UV

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induced dimers  
between two adjacent  
thymine bases (TT-  
dimers) is dramatically  
altered in the  
neighborhood of the  
dimer, suggesting an  
enhancing role for the  
large fluctuations  
present at the dimer  
site in the dimer  
recognition path- way.

**Bubble Statistics  
and Dynamics  
in Double-Stranded  
DNA**

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Applying microsecond laser pulses to the 100-200 strongly absorbing melanin granules inside the RPE cells induces transient micro bubbles which disrupt the cells. Aim of this work is to understand bubble dynamics in clusters with respect to the influence of the adjacent retina.

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