Twitter Thread by Renaissance Man

Renaissance Man
@2dedostesta

https://t.co/pgec0762iw - “new kind of warrior linking the human brain to machines, to millions of sensors and to the computer cloud.” “… neural implants for brain–computer interfacing would allow for seamless interaction between individuals and secondary assets (machines).

Bill Gates said it's hard to deny vaccine conspiracy theories involving him because they're 'so stupid'

Tyler Sonnemaker

04 jun 2020

Mr. Lieber and his partners were working on exactly this type of technology and received substantial funding from the Department of Defense and many of its agencies. Mr. Lieber and his colleagues were awarded a number of patents, but the

most important one appears to be a 2015

patent award called “Systems and Methods for [nano-scale] Injectable Devices.” The idea of the 2015 patent was to inject a nano-scale matrix into the brain and creating a brain interface that could be linked to machines.

https://t.co/7JpanuLQmV | https://t.co/NR1yqpS8RU | https://t.co/PqDwfWSOwT

https://t.co/k1ufWtpknZ

https://t.co/KPyr38Jdkz

https://t.co/s2OS9JVljj

https://t.co/84BX9g0Pib

https://t.co/iHXxKfuwqT

https://t.co/lHx6A3PyAH

https://t.co/3MpG7tJJ5S

https://t.co/ckrEaHUwNr

https://t.co/NxwxJYqYht

https://t.co/tWs2xt8EwZ

https://t.co/PssBiCsjO0

https://t.co/66DSDqLmuq

https://t.co/gwh2DQWH2I

https://t.co/9TEzAbPGIr

https://t.co/X0ottjxGQQ

https://t.co/W25io7vbCd

https://t.co/VFocRtwYfT

https://t.co/3nvztKE2kg

https://t.co/xX5iAzKlvB “IMAGINE BEING ABLE to signal an immune cell to generate antibodies that would fight bacteria or even cancer. That fictional possibility is now a step closer to reality with the development of a bio-compatible transistor the size of a virus.”

https://t.co/tK72k2FdCA “Digital electronics are so powerful that they dominate our daily lives. When scaled down, the differences between digital and living systems blurs, so that you have an opportunity to do things that sound like science fictions, things that people have only

dreamed about,” says Lieber.

https://t.co/y6YNTWzazM - Electrical detection of single viruses.

https://t.co/yKyYEL0CqU

Abstract

We report direct, real-time electrical detection of single virus particles with high selectivity by using nanowire field effect transistors. Measurements made with nanowire arrays modified with antibodies for influenza A showed discrete conductance changes characteristic of binding and unbinding in the presence of influenza A but not paramyxovirus or adenovirus. Simultaneous electrical and optical measurements using fluorescently labeled influenza A were used to demonstrate conclusively that the conductance changes correspond to binding/unbinding of single viruses at the surface of nanowire devices. pH-dependent studies further show that the detection mechanism is caused by a field effect, and that the nanowire devices can be used to determine rapidly isoelectric points and variations in receptor-virus binding

https://t.co/EfURCIbNw8

receptor interactions (12, 13); and single particle sensitivity could enable simple charge-based detection of macromolecules.

Materials and Methods

Nanowire Device Arrays. Silicon nanowires were synthesized by chemical vapor deposition with 20-nm gold nanoclusters as catalysts, silane as reactant, and diborane as p-type dopant with a B/Si ratio of 1:4,000. Arrays of silicon nanowire devices were defined by using photolithography with Ni metal contacts (14) on silicon substrates with a 600-nm-thick oxide layer. The metal contacts to the nanowires were isolated by subsequent deposition of ≈50-nm-thick Si_3N_4 coating. The spacing between source-drain electrodes (active sensor area) was 2 μm in all experiments.

Virus samples were delivered to the nanowire

https://t.co/icHO8Qbt1e

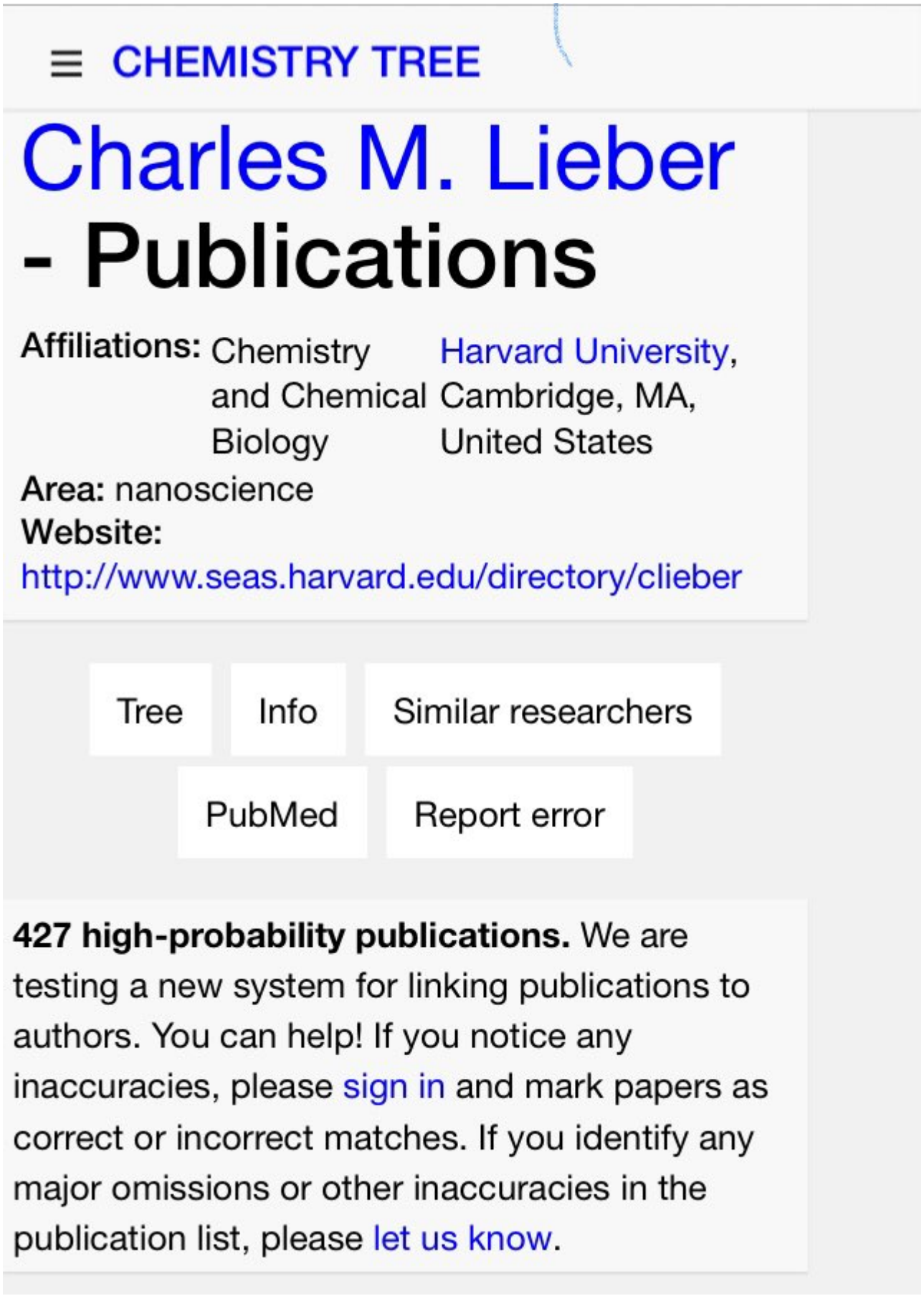
MARKET RESEARCH DATA

FOR

Bio-Sensor Virus Detector (BSVD) Program

RIDGE FEDERAL SECURITY ACQUISITION CENTER
WASHINGTON DC

https://t.co/Ky2ZrUUyym



https://t.co/6HrsUrZYEO

https://t.co/l363KN4fWf “Nanoelectronics for biology and medicine: Lieber demonstrated the first direct electrical detection of proteins, selective electrical sensing of individual viruses and multiplexed detection of cancer marker proteins and tumor

enzyme activity. His approach

uses electrical signals for high-sensitivity, label-free detection, for use in wireless/remote medical applications.

https://t.co/lAanFWxgY5

Nanoelectronics and brain science: The development of nanoelectronics-enabled cellular tools underpins Lieber's views on transforming electrical recording and modulation of neuronal activity in brain science. Examples of this work include the integration of arrays of nanowire transistors with neurons at the scale that the brain is wired biologically, mapping functional activity in acute brain slices with high spatiotemporal resolution and a 3D structure capable of interfacing with complex neural networks. He developed macroporous 3D sensor arrays and synthetic tissue scaffold to mimic the structure of natural tissue, and for the first time generated synthetic tissues that can be innervated

https://t.co/vW6FKt30Un The Lieber ■■ connection that was missing...

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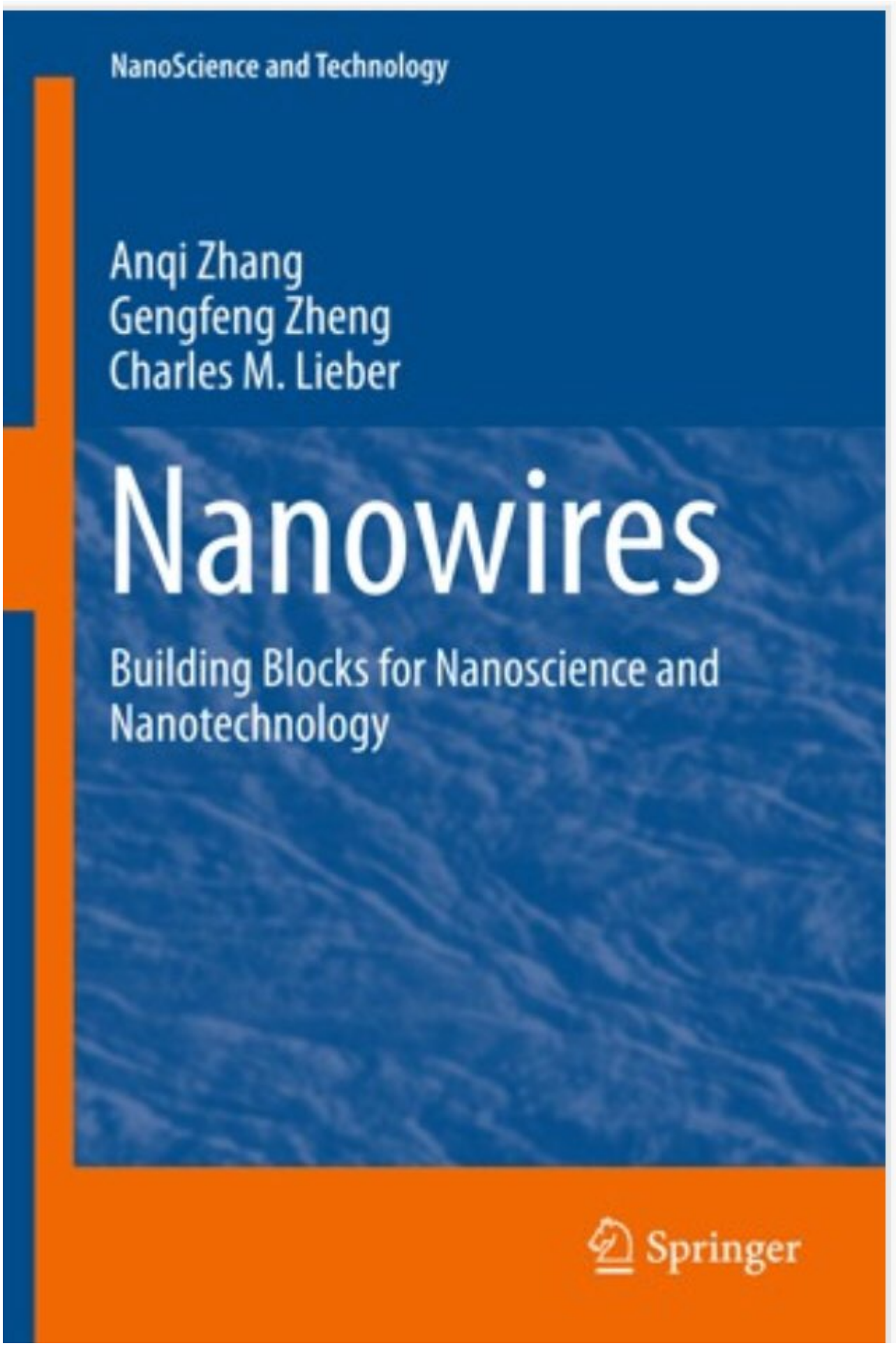
https://t.co/kctikfOaKr



https://t.co/TDwwGNtp4I The interface between nanosystems and biosystems is emerging as one of the broadest and most dynamic areas of science and technology, bringing together biology, chemistry, physics and many areas of engineering, biotechnology and medicine.

https://t.co/FboKQdtKdm

https://t.co/fFa1cZXQ7v

https://t.co/YuMtJuaG9f

https://t.co/U21vKVWL98

https://t.co/eU77V1p0gz Biggest Biotech Fundraising
The startup last year completed the largest biotech funding round ever, raising over $900 million in the first close of a Series B financing, data compiled by Bloomberg show. The next biggest private funding from the sector is a

$500 million round Cambridge, Massachusetts-based Moderna Therapeutics completed earlier this year, according to the data.

https://t.co/nZ1xMZUnEP

https://t.co/3Ug4p2Ce08 development of transformative medicines based on messenger ribonucleic acid (mRNA). Prophylactic vaccines, cancer ■ , intratumoral immuno-oncology, localized regenerative therapeutics, systemic secreted therapeutics, & systemic intracellular therapeutics

https://t.co/s4y04dZoNS

Why? The world can't wait for traditional vaccine deployment timelines, so the foundation aims to help scale up manufacturing during testing, instead of after, Gates said https://t.co/jMtz3JDWH3

https://t.co/9nEp45Zqce https://t.co/UHC7jYGtuF

> https://t.co/2QxFTHlZcN researchers in the US have developed a DNA based Biological computer that works inside living bacterial cells and tells them what to do. Composed of Ribonucleic Acid (RNA), the new \u201cRibocomputer\u201d. Coronavirus are RNA Genoma !Charles Lieber / \U0001f1e8\U0001f1f3 / WHO / \U0001f595
>
> — Renaissance Man (@2dedostesta) April 13, 2020

https://t.co/i8NIQh02Xa

https://t.co/ngVk7r4AmL

https://t.co/WDsvhCvkP1

https://t.co/Doj834k78C

https://t.co/VHi4AxId6E

https://t.co/R8yyg1CHFK

https://t.co/L7lcv6FZyb

https://t.co/aX6dhOCuyV - HARVARD CHINA FUND PROGRAMS

https://t.co/yZrk0b8sac

https://t.co/uBQEgLGY9Q awarded more than $1.5 million to establish a secret research lab in Wuhan.

https://t.co/orklCIgx6o

Zaosong Zheng, a ■■ national, was arrested on 10/12/2019, at Boston’s Logan Airport. He's accused with attempting to smuggle 21 vials of biological research, from Lieber’s research laboratory, which were then to be brought to Wuhan. https://t.co/UAzsN1aBXJ

https://t.co/FjcUlpUXwg

The smoke screen: https://t.co/9aD71FgFgQ This was to cover up what he was REALLY doing in the sponsored lab created by him in Wuhan. The arrest for not declaring ■ in US is a cover up.

https://t.co/UrEmX2SkF8

https://t.co/t5jSr8RJmJ Looking back years later, the two defining historic events of 2020 would be the coronavirus pandemic, and the other would be [China’s] digital currency

Xu Yuan

https://t.co/mWUfGAl0T0

https://t.co/ycwA3svxHh

https://t.co/d3pjg3Sz3p

https://t.co/jrw10O8u9Y

https://t.co/FyceechRFQ

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https://t.co/sSeLymQOry

https://t.co/wgZLjrUta2

https://t.co/x9InAfoQUr

Illiad founder Xavier Niel called Libra "inevitable" in French newspaper les Echos on Sunday, according to a translated version sent to CNET by Iliad. He called Libra "a reliable, constructive, exacting project."

Lê Monde = Xavier Niel | Washington Post = Jeff Bezos

Actionnariat actuel de la Société éditrice du Monde

* Filiales de la SEM : Télérama, Courrier international, Malesherbes Publications, Le Monde diplomatique, M Publicité, VM Magazines, etc.

Source : *LE MONDE*
Infographie : *LE MONDE*

https://t.co/aO1U2oRu0z

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https://t.co/uaIepJbk8A

https://t.co/HSt0NW32G9

https://t.co/5lPuzSnRAU

https://t.co/hC99tgYD1J “Les mineurs font partie intégrante du processus. Sans eux, la Blockchain serait figée. Un mineur en effet confirme les transactions qui ont lieu sur la Blockchain.” Lieber neuronanobiosensors and Microsoft patent eliminate the need and costs of “mineurs”.