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 ★★★★

[Gallium Nitride-Based Nanowire Radial Heterostructures for Nanophotonics](#)

Qian, Fang; 2006

Semiconductor **nanowires** are attractive building blocks for the assembly of active photonics devices, providing a unique and flexible pathway for creating multicolor integrated **nanophotonic** systems beyond the limit of conventional planar structures.

American Physical Society

Source: NASA Astrophysics Data System

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[Gallium nitride nanowires with a metal initiated metal-organic chemical vapor deposition \(MOCVD\) approach](#) [Permanent Link](#)

Lee, Sang-Kwon Choi, Heon-Jin Pauzauskie, Peter Yang, Peidong Cho, Nam-Kyu Park, Hyo-Derk Suh, Eun-Kyung Lim, Kee-Young Lee, Hyung-Jae; 2004

We have studied structural and electrical properties of one dimensionally grown single crystalline **gallium nitride** (GaN) **nanowires** (NWs) for **nanoscale** devices using a metal-initiated metal-organic chemical vapor deposition ...

Physica Status Solidi (B)
73.63.Bd 81.07.Bc 81.15.Gh

Source: NASA Astrophysics Data System

- 3
 ★★★★

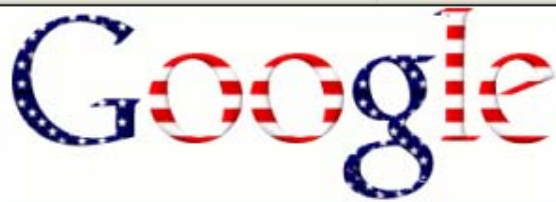
[Gallium nitride nanowires doped with silicon](#) [Permanent Link](#)

Liu, Ji Meng, Xiang-Min Jiang, Yang Lee, Chun-Sing Bello, Igor Lee, Shuit-Tong; 2003

High-quality GaN **nanowires** doped with silicon have been synthesized by hot-filament chemical vapor deposition on Au-coated Si (100) wafers. The GaN was systematically characterized by scanning electron microscopy, transmission electron microscopy, ...

Applied Physics Letters

gallium compounds silicon **nanowires** chemical vapour deposition scanning electron microscopy transmission electron



nitride and gallium and nano*

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[United States Patent Application: 0050133798](#)

A **Nitride** semiconductor template having **nano**-voids at an interface between ... [0041] on the nitrided substrate Thus obtained, **Gallium Nitride** crystals were ...
[appf1.uspto.gov/netacgi/nph-Parser?Sect1=PTO2& Sect2=HITOFF&u=%2Fnetahhtml%2FFPTO%2Fsearch-adv.html... - 27k - Supplemental Result - \[Cached\]\(#\)](#)

[United States Patent Application: 0040000266](#)

[0006] in The case of **gallium nitride**, The quality of substrates ... However, No Reduction of threading dislocations, micro- or **nano**-pipes or voids is ...
[appf1.uspto.gov/netacgi/nph-Parser?Sect1=PTO2& Sect2=HITOFF&u=%2Fnetahhtml%2FFPTO%2Fsearch-adv.html... - 50k - Supplemental Result - \[Cached\]\(#\)](#)
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[MSD Research Highlight](#)

... The sample was heated to evaporate the zinc oxide leaving only thermally stable **gallium nitride**, a high-density, ordered array of **nano**-sized tubes (see figure ...
[www.lbl.gov/msd/Pls/Yang/03/05_5_Yang.html - 8k - Supplemental Result - \[Cached\]\(#\)](#)

[Berkeley Lab Currents -- December 6, 2002](#)

... Indium **gallium nitride** has tremendous heat capacity and is extremely resist to ... sec Time-Resolved Photo-Electron Emission Microscopy on Magnetic **Nano**-Structures. ...
[www.lbl.gov/Publications/ Currents/Archive/Dec-06-2002.html - 101k - Supplemental Result - \[Cached\]\(#\)](#)
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[Nanotechnology Research News](#)

... For the first time ever, the researchers have been able control the direction in which a **gallium nitride** nanowire grows. ... Controllable **Nano**-diode Created Jul. ...
[nnc05.nano.gov/html/research/rnews.html - 51k - Supplemental Result - \[Cached\]\(#\)](#)

[US NSF - News - Not-So-Spotty Material Breakthrough](#)

... Applying similar techniques to **gallium nitride** and zinc oxide, the researchers are hoping to ... But nature doesn't like to create nano-sized units of uniform size



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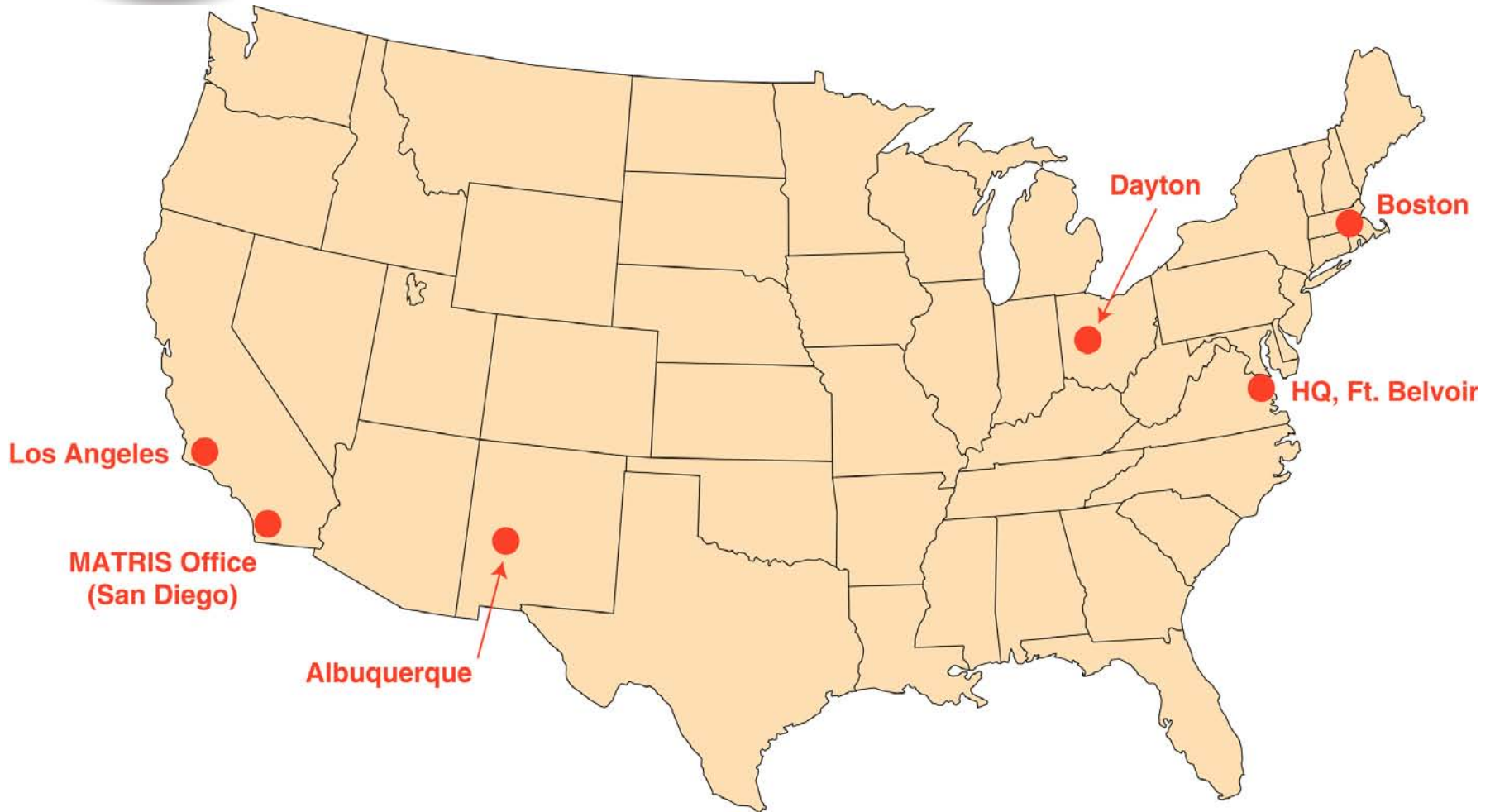
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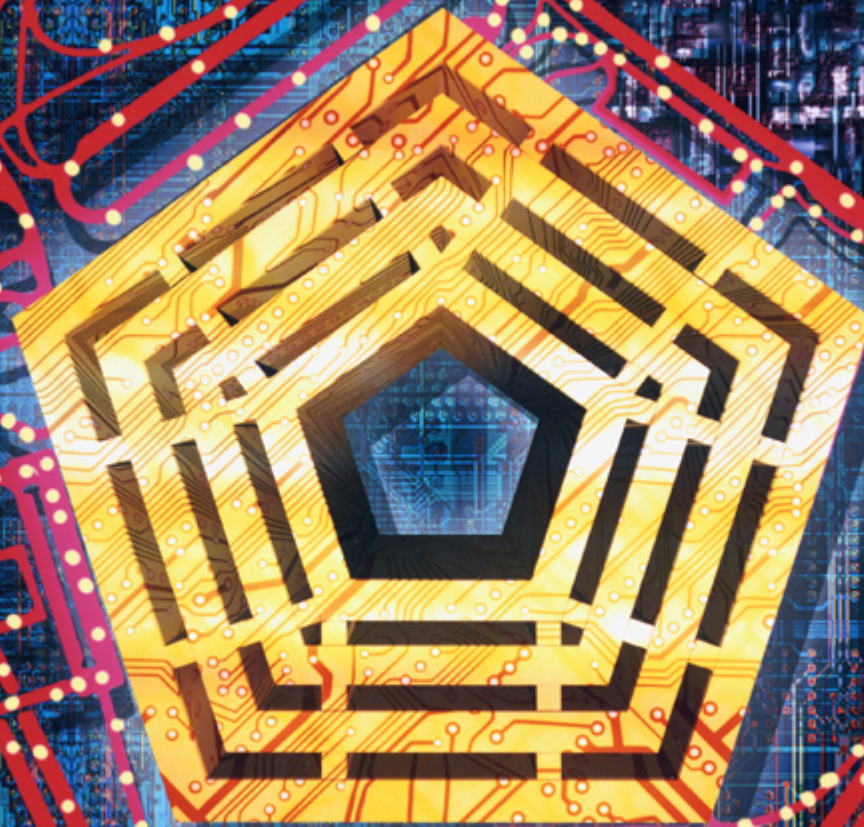
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