

Nanomaterials *and Consumer Products*

A perspective from the US

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Woodrow Wilson International Center for Scholars (in partnership with the Pew Charitable Trusts)



The Project on Emerging Nanotechnologies

HOME > INVENTORIES >

Consumer Products

An inventory of nanotechnology-based consumer products currently on the market.

After more than twenty years of basic and applied research, nanotechnologies are gaining in commercial use. Nanoscale materials now are in electronic, cosmetics, automotive and medical products. But it has been difficult to find out how many "nano" consumer products are on the market and which merchandise could be called "nano."

While not comprehensive, this inventory gives the public the best available look at the 800+ manufacturer-identified nanotechnology-based consumer products currently on the market.

Continue by selecting an item below

Browse

Browse products by name, category, company, or country

Search Inventory

Search for products with keywords, categories, countries, companies, and more

Background

How we decide what is in, and what is out



WELCOME

The Inventory is an essential resource for consumers, citizens, policymakers, and others who are interested in learning about how nanotechnology is entering the marketplace. It is meant to be international and expanding. Users are encouraged to submit new and updated information to nano@wilsoncenter.org.

STATISTICS

In the Consumer Products Inventory there are currently 807 products, produced by 464 companies, located in 21

inventories

Consumer Products

Environment, Health and Safety Research

US NanoMetro Map

Agriculture and Food

Medicine

Silver Nanotechnology

Categories

Browse products by category or subcategory.

Appliances

Batteries
Heating, Cooling and Air
Large Kitchen Appliances
Laundry & Clothing Care

Automotive

Exterior
Maintenance & Accessories
Watercraft

Cross Cutting

Coatings

Electronics and Computers

Audio
Cameras and Film
Computer Hardware
Display
Mobile Devices and Communications
Television
Video

Food and Beverage

Cooking
Food
Storage
Supplements

Goods for Children

Basics
Toys and Games

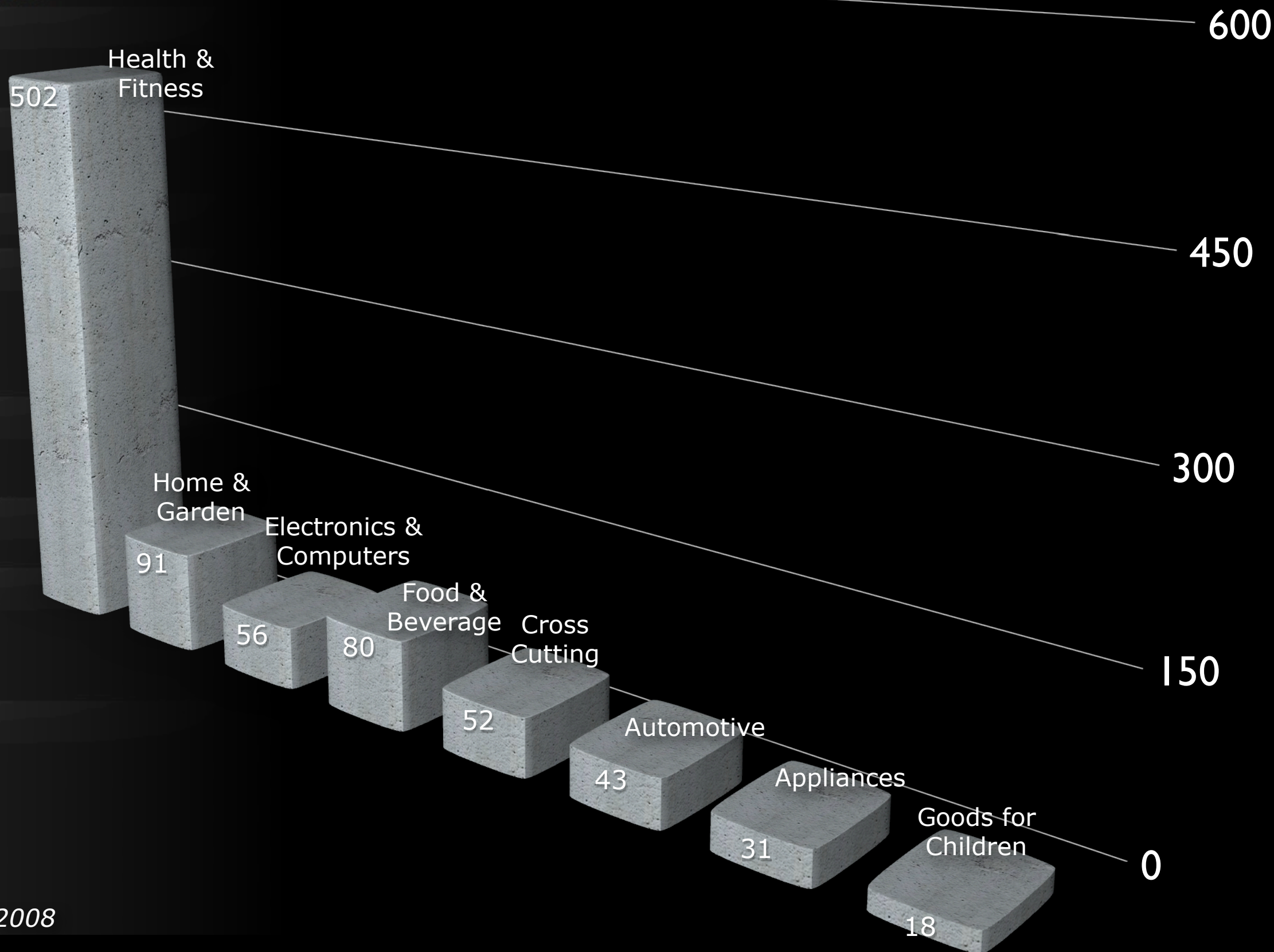
Health and Fitness

Clothing
Cosmetics
Filtration
Personal Care
Sporting Goods
Sunscreen

Home and Garden

Cleaning
Construction Materials
Home Furnishings
Luggage
Luxury
Paint
Pets

Consumer Product Inventory by Category



Data: August 21, 2008

Nanotechnology: Adding value to products

I wish my sunscreen wasn't so unsightly



I wish my socks didn't smell so much!



I wish my tennis racquet was lighter and stronger



I wish I could keep leftovers for longer, before they go off



I wish spilt red wine would run off my pants without staining



I wish I could get more songs on my iPod



Over 800 listed manufacturer-identified nanotech consumer products:
www.nanotechproject.org/consumerproducts

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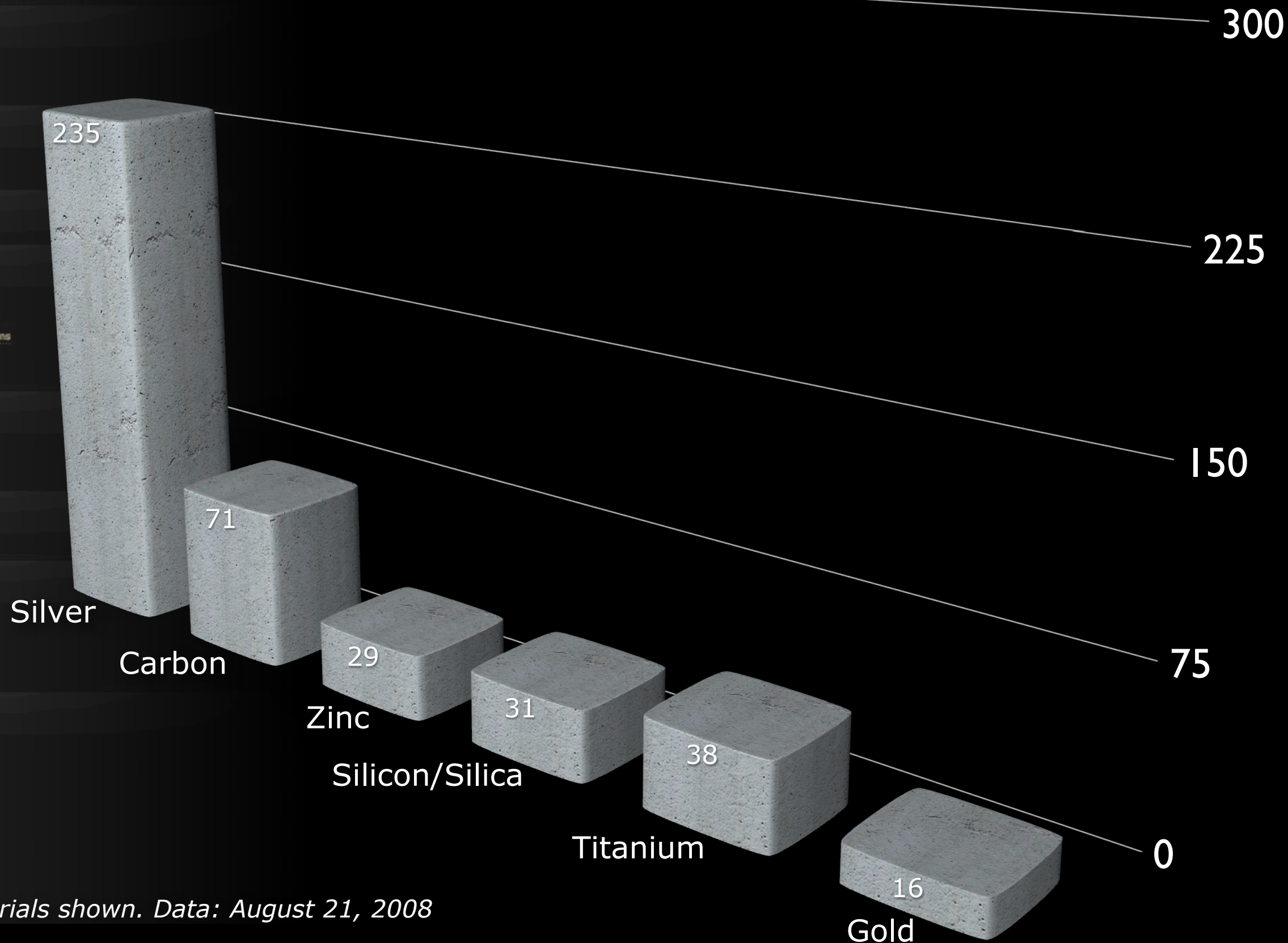
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Consumer Product Inventory by Material



Only top 6 materials shown. Data: August 21, 2008

Potential Hazard

Low

High

Low

Exposure Potential

High

Increasing Potential Risk

Illustrative only

Potential Hazard

Low

High

Low



Nikon nano-crystal lens coating



iPod nano



Eikos carbon nanotube display technology



Nano-ZnO sunscreen



Nano-silver socks



Carbon nanotube-composite bicycle frame



Nano-TiO2 dietary supplement



Sircuit® Skin serum



Exposure Potential

High

Illustrative only

Consumer:

Nanoproducts

State of play:

- Simple nanomaterials dominate
- Nano-enabled products are diverse
- Relatively few “high-risk” products

Current challenges:

- New exposure routes
- Unanticipated toxicity
- Over-stressed regulations
- Science-based decision-making

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