

## Nanoscale Technologies for Pollution Prevention

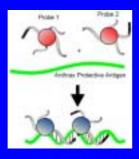


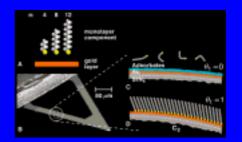
Make a manufacturing process environmentally benign.

- Be an environmentally benign material.
- Be a manufactured product that replaces a toxic substance or minimizes use of raw materials.

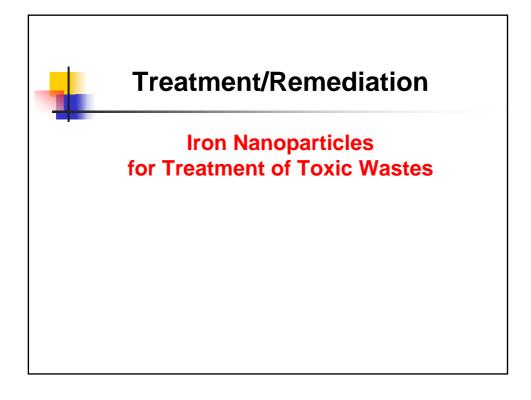
## Nanoscale Technologies for Sensing and Detection

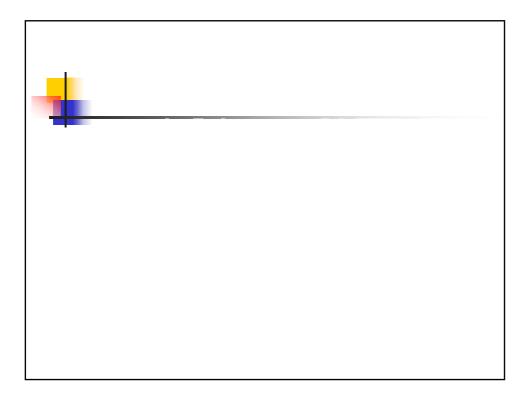
Biological pathogens, heavy metals, organics, etc.

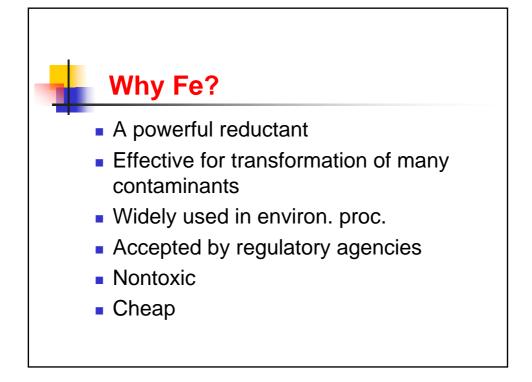


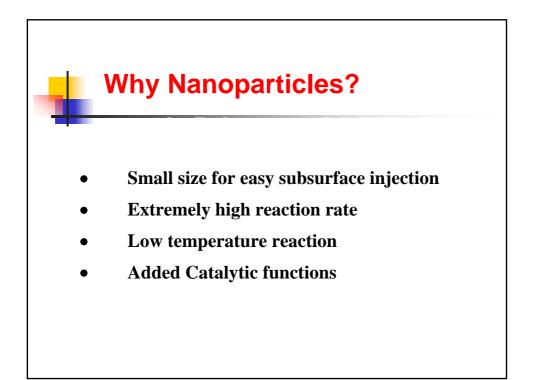


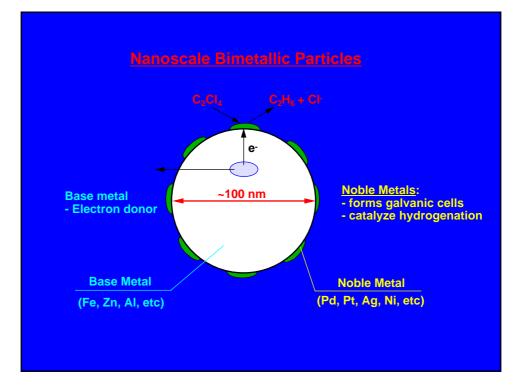
IBM, Zurich

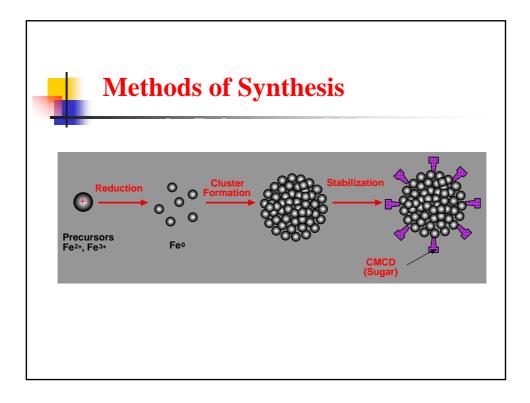


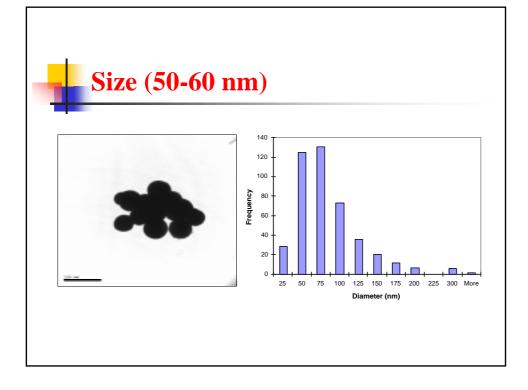


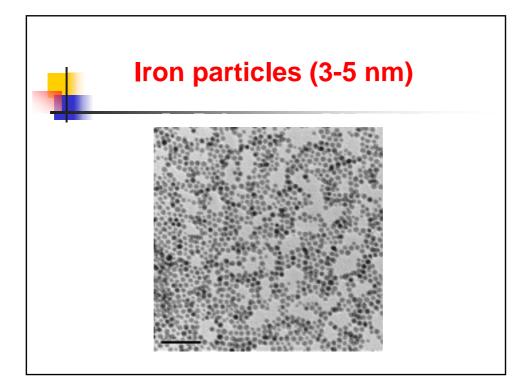












	Surface Area	
•	Fe	SSA (m²/g)
	1 mm (existing method)	0.0012
	Aldrich, ~10 µm	~1.0
	Lehigh (60 nm)	25-35
	Lehigh (2-5 nm)	142

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