

2) as nucleic acid detection platforms.

**DNA-linked colloidal satellite** as model multifunctional assembly

**Programmed Disassembly** 







Tison & Milam Langmuir 2007

Key Advantages

- 1) Label-free targets can be detected
- 2) Enables isothermal assembly and disassembly conditions
- 3) Distinct displacement behavior allows for target discrimination



# Key Advantages

# **Employing Oligonucleotides in Materials Systems** P.I. Valeria T. Milam Mary Catherine Adams, Steven Ochoa, Dharma Hufnagle, Laurel Stefani School of Materials Science & Engineering, Institute for Bioengineering & Biosciences



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