

NATIONAL INSTITUTE OF AEROSPACE TECHNOLOGY TRANSFER & COMMERCIALIZATION HUB



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Featured Technology: 17134-1

Status: Open for Licensing

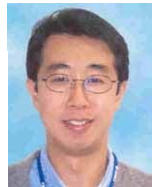
FABRICATION OF METALLIC HOLLOW NANOPARTICLES

The fabrication of metallic hollow nanoparticles is accomplished utilizing dendrimer molecules.

These nanocolloids consist of an organic core of a dendrimer molecule with a metallic shield of gold.

This invention works in conjunction with 16845-1 and 16920-1 to use amine terminated dendrimer molecules to fabricate a metal lining on the dendrimer that has the level of figure of merit (ZT) for thermoelectric materials.

Meet the Inventor



Dr. Sang-Hyon Chu
NIA Senior
Research Scientist

A valued member of NIA since 2003, Dr. Chu received his Ph.D. in Chemical Engineering from Seoul National University in 1998.

After completing his Ph.D., he continued his research as a research associate at Seoul National University and ICASE, located in Hampton, VA. He received his M.S. and a B.S. degrees in Chemical Engineering from Seoul national University, Korea.

Dr. Chu was the 1995 Outstanding Graduate Student and graduated *summa cum laude*.

Contact Us

Dr. Karl Drews
Vice President of Operations
& Technology Transfer
National Institute of Aerospace
NIA Technology Transfer
& Commercialization Hub
100 Exploration Way
Hampton, VA 23666
(757) 325-6710
Karl.Drews@nianet.org

