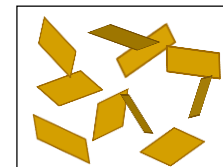


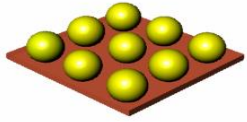
High-Surface Silicate Nanoplatelets Enabling Quorum Quenching Biofunctions of Anti-MRSA, Anti-Flu, Nanocarrier, and SERS

Jiang-Jen (JJ) Lin (林江珍)

Emeritus Professor, National Taiwan University
Guest Professor, National Chung-Hsing University
jiangjenlin@gmail.com

Nano World Boston 4-20-2020





— (press release 2009)—

Antimicrobial

Low-Toxic Silver Nanoparticles (NSP-supported Ag)

— antimicrobial coating /anti-MRSA /anti-biofilm /
other medical uses —

A New Ag Species with High Antimicrobial Efficacy and Safety

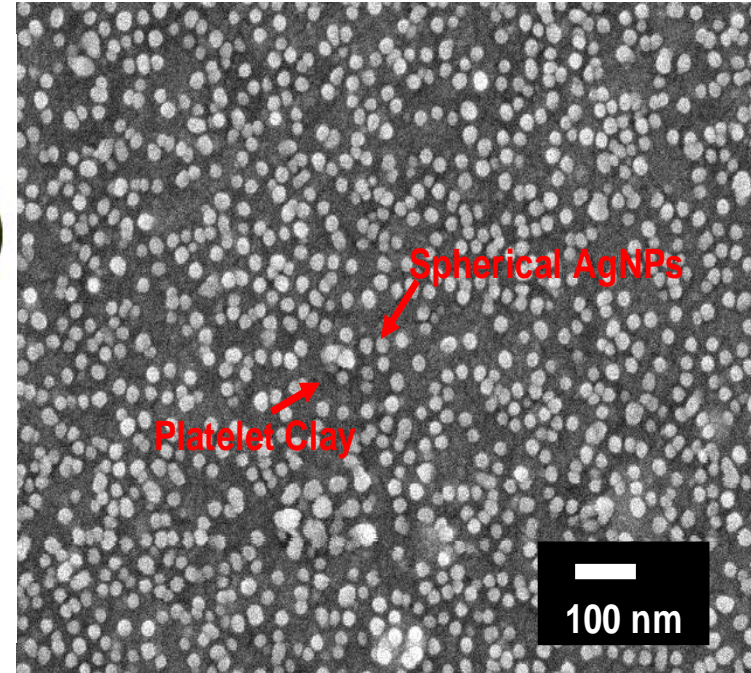
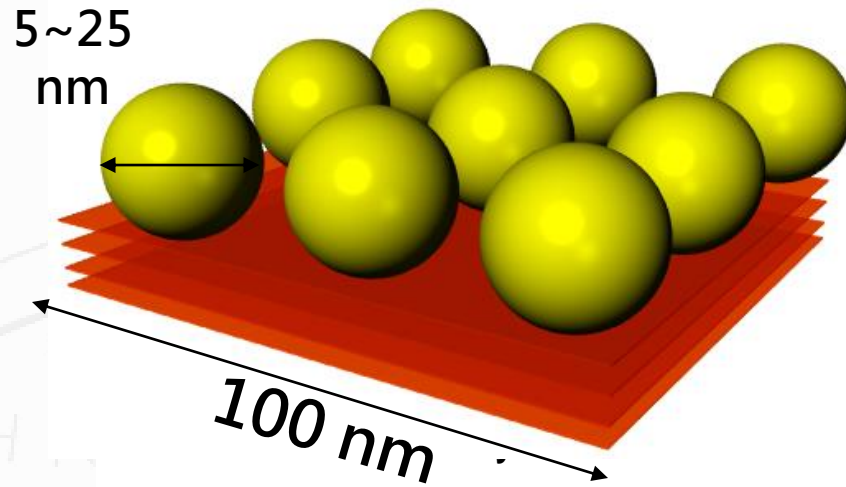


— (press release 2009)—

NSP-Ag conceptual diagram and SEM observation

NSP-Ag

Geometric association (TAg)



Silicate Supported Ag Nanoparticles

TAg – silver nanoparticle/NSP hybrids

Tailoring Ag size

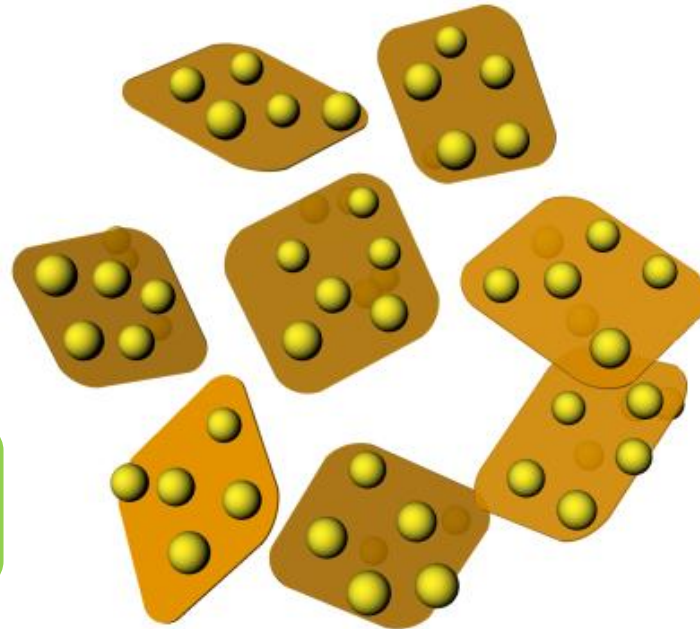
5 – 30 nm diameter

Antimicrobial

Stability

a myriad of applications

Low Toxicity



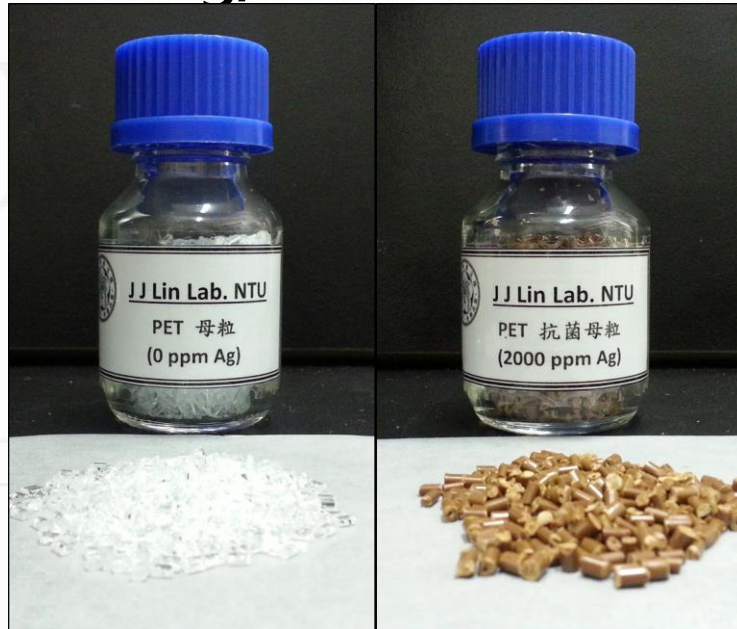
Trend of Safety: (TAg) > (ZnO) > (CuO) >> (conventional AgNP)
>> (Ag-ions in Silver sulfadiazine)(trade name, Silvadene or SS)

銀彈900 – TAg Antimicrobial and Deodorant Spray



Master Batch of Ag/PET, Ag/PP and its Fibers for surface antimicrobial fabrics and textiles

Ag/PET Pellets



Ag/PP Pellets





Nano-carriers for Cancer Therapy

(patent allowed)

**(antimicrobial)(wound dressings)(Anti-itch mosquito bites)
(de-odorant) (blood-clotting/hemostatic applications)**

2019/9/2

