Please complete your abstract on the following page.
Antibacterial effect of Nano Zinc layered double hydroxide to bacterial cells

Mengxue Li, Zhiping Xu*
Australian Institute for Bioengineering and Nanotechnology,
The University of Queensland,
Brisbane, QLD 4072, Australia

Simple processes to produce zinc aluminum layered double hydroxide (LDH). Zinc aluminum layered double hydroxide (LDH), Penicillin G-layered double hydroxide, Zn-MgAl-layered double hydroxide (LDH), Zn-MgAl nanosheet layered double hydroxide
These composites are synthesized through co-precipitation or ion exchange method. The composites were found to be showing antibacterial activity. This result may lead to its application in biomedicine. 1

Figure 1: The antibacterial activity of ZnAl-LDH-PG and ZnAl-LDH against E coli. by optical density.

References
1 Geetanjali Mishra. Journal of Environmental Chemical Engineering 2013, 1, 1124-1130. Antibacterial actions of silver nanoparticles incorporated Zn-\textit{Al} layered double hydroxide and its spinel.


Biographic Details
Name: Mengxue Li
Title: Antibacterial effect of Nano Zinc layered double hydroxide to bacterial cells
Affiliation, Country: China
Phone: +0422458453 E-mail: mengxue.li@uq.edu.au
Research interests: Nanomedicine, Fundamentals of Nanobio - supporting the technologies