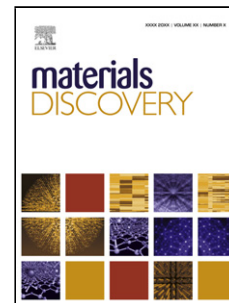


Accepted Manuscript

Title: Microwave induced facile synthesis and characterization of ZnO nanoparticles as efficient antibacterial agents

Authors: Dheeraj Singh Chauhan, C.S.A. Gopal, D. Kumar, N. Mahato, M.A. Quraishi, M.H. Cho



PII: S2352-9245(18)30007-3
DOI: <https://doi.org/10.1016/j.md.2018.05.001>
Reference: MD 47

To appear in:

Received date: 20-2-2018
Revised date: 13-4-2018
Accepted date: 5-5-2018

Please cite this article as: Chauhan DS, Gopal CSA, Kumar D, Mahato N, Quraishi MA, Cho MH, Microwave induced facile synthesis and characterization of ZnO nanoparticles as efficient antibacterial agents, *Materials Discovery* (2018), <https://doi.org/10.1016/j.md.2018.05.001>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Microwave induced facile synthesis and characterization of ZnO nanoparticles as efficient antibacterial agents

Dheeraj Singh Chauhan^a, C.S.A. Gopal^b, D. Kumar^c, N. Mahato^d, M.A. Quraishi^{a,b*}, M.H. Cho^d

^aCenter of Research Excellence in Corrosion, Research Institute, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia

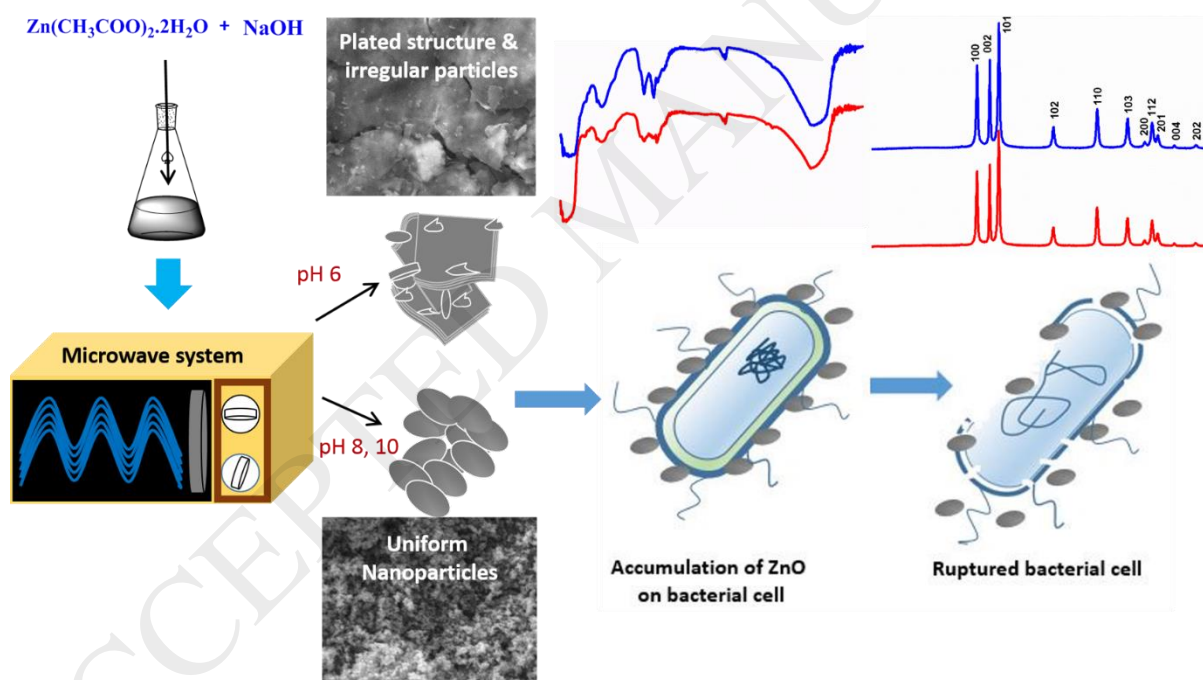
^bDepartment of Chemistry, Indian Institute of Technology (Banaras Hindu University), Varanasi-221005, India

^cDepartment of Microbiology, Institute of Medical Sciences, Banaras Hindu University, Varanasi-221005, India

^dSchool of Chemical Engineering, Yeungnam University, Gyeongsan, Gyeongbuk 712-749, Republic of Korea

E-mail: maquraishi.apc@itbhu.ac.in

Graphical abstract



Highlights

- Synthesis of uniform ZnO nanoparticles via Microwave irradiation method
- ZnO nanoparticles produced in absence of surfactants and without calcination or annealing

Download English Version:

<https://daneshyari.com/en/article/7971433>

Download Persian Version:

<https://daneshyari.com/article/7971433>

[Daneshyari.com](https://daneshyari.com)