عنوان فارسی مقاله:
سنتز و تعیین خصوصیات نانوذرات اکسید روبن و فعالیت ضد میکروبی آن ها در مقابل باسیلوس سابیلیس و اشرشیاکلی

عنوان انگلیسی مقاله:
Synthesis And Characterization Of Zinc Oxide Nanoparticles
And Its Antimicrobial Activity Against Bacillus Subtilis
And Escherichia Coli

توجه!
این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک کنید.
CONCLUSION
Synthesis of zinc oxide nanoparticles was achieved by using zinc acetate, polyethylene glycol and ammonium carbonate by precipitation method. Detailed structural characterizations demonstrate that the synthesized products are spherical and crystalline in structure and their diameter was about 30nm. These structures clearly evident from SEM and XRD. SEM result were in accordance with X-ray diffraction. Due to the large specific surface Area and high surface energy, some nanoparticles aggregated. The aggregation occurred Probably during the process of drying. XRD Patterns of zinc oxide nanoparticles calcinated at 450°C. the average particle size increased with the increase of calcinations temperature X-ray diffraction (XRD) with Cu-Kα radiation was used for checking the formation and identification of present compounds in the obtained particles. The average crystallite size D was calculated by Debye-sherrer formula.