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SETS -Solar energy trapping system

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Energy efficient systems in the modern world play a vital role, as we are in energy crisis. Due to the man made causes energy is being wasted, in addition to this, polluting the surroundings indeed the mother earth. Here we come with an idea of producing steam by trapping solar energy where this type of system doesn't release any waste gases or pollutants and thus steam obtained can be used for many purposes like Cooking food, Generation of Electricity etc,

Our idea is to trap solar energy by parabolic arrangement which can Efficiently Convert the Solar Energy into Electrical or Mechanical according to the Purpose, so that it can be made available for a Lane man.

Biography

Sampath Ram P is in Final Year of B.Tech in the stream of Electronics and Communication Engineering (ECE), at the age of 21 years from SK University, Anantapur. He was the Student Organizer of EVINCE 2012, a National Level Technical Symposium Conducted by Dept of ECE. He has presented Many Papers, Posters and Projects at Various Technical Fests. He was also student coordinator in college tech and cultural fests. He has good presentation skills with leadership and team management skills. He was the Founder of Music Club in the University.

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Green synthesis of Au-Ag nanocomposites and their anti-biofilm activity

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In the present work, Au-Ag nanocomposites were synthesized by a green route using Banana Peel Extract (BPE) powder. The characterization of nanoparticles was carried out by different techniques such as UV-Visible Spectroscopy, SEM-EDS, TEM and XRD. The antibacterial and anti-biofilm activities of these nanoparticles were checked against pathogenic strain of P. aeruginosa. Agar diffusion method was used for antibacterial activity and 96 well cell culture plates were used for Anti-biofilm activity. Biofilms were quantified by crystal violet assay method. Biofilm formation on the glass surfaces were stained with acridine orange (0.01%) and observed by fluorescent microscopy. Results showed that Au-Ag nanocomposites were 50-100nm in size. The Au-Ag nanocomposites showed antibacterial and anti-biofilm activities against P. aeruginosa as compared to individual Au and Ag nanoparticles. Thus, this study has revealed potential synergistic effect of Au-Ag nanocomposites against P. aeruginosa.

Biography

Sandeep Newase is M.Sc. student of Department of Microbiology, University of Pune, Maharshtra, India.

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