

Silver nanoparticles to control biofilm in aqueous environment



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Reviews

Complete information for publication enthusiasts. I have go through and that i am confident that i will gonna go through once more again in the future. Its been printed in an exceptionally basic way and is particularly just following i finished reading through this book by which basically altered me, alter the way i really believe.

(Angela Kuhn)

SILVER NANOPARTICLES TO CONTROL BIOFILM IN AQUEOUS ENVIRONMENT

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Collision between two particles of different sizes; nanoparticle(nanometer range) and bacterial cell (micrometer range) | Biofouling, in water systems such as membrane filtration, results in energy loss, potential contamination and decreases in process performance; and is one of the challenges in development of new technologies in this field. The phenomenon of biofouling is associated with the existence, properties and activity of biofilm. Biofilm an elaborate surface-associated microbial community, bound together by a slimy self-secreted matrix of protective and adhesive substances is likely to form wherever there is water, a supporting surface and available nutrients. Nanoparticles are collections, in aggregate, of atoms in the range of 1-100 nm with unique structure and properties. Which are used in increasing numbers of applications. Silver nanoparticles provide effective growth inhibition of various microorganisms in suspensions and on solid mediums. This study found that molecularly capped silver nanoparticles can, in addition to planktonic inactivation, prevent the formation of biofilm as well. The prevention was not by changing the properties of the surface or the environmental conditions as performed by other novel prevention approaches, but by interrupting the bacterial cells. | Format: Paperback | Language/Sprache: english | 92 pp.

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