

In addition to the type and concentration of pathogens in the untreated water, an ideal kinetic model should consider all critical factors affecting the efficiency of the process, such as intensity, spectral ...

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Solar distillation is a technique used to obtain purified water from salty or contaminated water (Tiwari and Tiwari 2007). This process uses solar energy to heat water; the solar still works by ...

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Alternative container materials can be used, such as glass or other plastics which transmit more solar UV than PET. However, glass is fragile and is a potential source of injury [6] while ...

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Solar still is the simplest solar desalination device. The solar stills may have single slope or double slope as shown in Fig. 1, Fig. 2. The solar still at its lower part consists of basin which is ...

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Solar still systems often include organic phase change materials (PCMs) because of their remarkable thermophysical characteristics. Numerous innovative PCMs have been developed ...

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