Presenting a novel approach for designing chlorine contact reactors by combination of genetic algorithm with nonlinear condition functions, simulated annealing algorithm, pattern search algorithm and experimental efforts

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Nowadays, water supplies face critical conditions in terms of quality and quantity. Furthermore, growth in population along with their needs require an increasing level of water-related resources. Consequently, the potential application of purified wastewater supplies can be considered in agriculture, industry, and irrigation of green spaces. Hence the necessity of di ...

Conservation agriculture and its principles

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Conventional agriculture is the greatest enemy of healthy soil; it wasn’t designed for the betterment of the soil, but rather for the rapid economic growth. If we want to improve soil quality and with that our life quality, we should turn our field of interest to the application of so-called conservation agriculture, which belongs to the principles of sustainable natu ...