

Drinking Water: Water Quality and Treatment

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Message from the Guest Editors

The application of advanced water treatment processes has had a major impact on water quality. Safe drinking water requires a holistic approach that considers the source of water, the treatment processes, and the distribution system. The most common treatment process consists of coagulation, flocculation, sedimentation, filtration, and disinfection. Water distribution systems may suffer from problems such as taste and odors, enhanced chlorine demand, and disinfection byproducts. Some pre-treatments and moderate oxidation enhancing coagulation can be used without damaging cell membranes. Similar to sand filtration, biological activated carbon can be used as a modern water technology that can also form a biofilm and allow biodegradation of natural organic matter. Nanofiltration and reverse osmosis use a pore size that excludes low-molecular-weight compounds and have demonstrated efficiency in removing dissolved organic matter and disinfection byproduct precursors. [...]

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Message from the Editor-in-Chief

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