



Editorial

This special issue carries selected peer-reviewed manuscripts based on presentations made at CESE-2015, the 8th Annual International Conference on “Challenges in Environmental Science & Engineering”—CESE Conference Series, which was held from the 28th of September to the 2nd of October 2015 at Sydney, Australia.

This special issue has been dedicated to the following themes: Membrane technology, adsorption, chemical treatment, biological treatment, oxidation processes and a general theme covering other relevant topics. The Membrane Technology theme covers research on membrane treatment for the removal of iron and manganese using ultrafiltration, for arsenate removal using adsorbents and microfiltration, and polysulfone-ZnO membrane. The Adsorption theme includes removal of arsenate using inorganic magnetite particles, removal of phenol on a modified palm shell-based carbon, and effect of biochar on migration and biodegradation of 4-n-Nonylphenol.

The Chemical Treatment theme consists of sludge moisture distribution and dewatering characteristic after cationic polyacrylamide conditioning. The Biological Treatment theme mainly involves analysis of microbial community in the biodegradation, electron transfer based on sulfur metabolism integrated (BESI[®]) process for reverse osmosis concentrate treatment, performance efficiency of lab-scale membrane bioreactors treating synthetic municipal wastewater and membrane fouling characteristics of inclined-tube anoxic/aerobic membrane bioreactor applied to municipal solid waste leachate. The Oxidation Processes theme covers ozonation of carbamazepine, diclofenac, sulfamethoxazole, and trimethoprim and formation of major oxidation products and effect of anions on the removal of micropollutants in wastewater by electro-oxidation process.

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