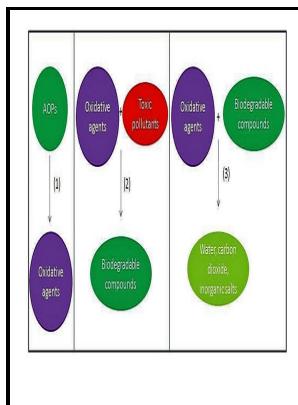


# Membrane-organic phase oxidation process for the destruction of toxic organics in hazardous wastewaters

Water Resources Research Institute, University of Kentucky - Supercritical Water Oxidation of the PCB Congener 2



Description: -

Sewage -- Purification -- Oxidation.membrane-organic phase oxidation process for the destruction of toxic organics in hazardous wastewaters

Research report (University of Kentucky. Water Resources Institute) -- no. 152.

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## Destruction of Pharmaceutical and Biopharmaceutical Wastes by the Modar Supercritical Water Oxidation Process

Experiments with actual wastewater and FC40 solvent showed negligible effects on the degradation of these compounds where the natural constituents would normally affect a single aqueous phase ozonation process.

## RETRACTED: Supercritical water oxidation for the destruction of toxic organic wastewaters: A review

Growth of the extreme thermophile Sulfolobus acidocaldarius in a hyperbaric helium bioreactor. Supercritical water oxidation of oil-based drill cuttings. This article is cited by 25 publications.

## Separation techniques with nanomaterials

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## RETRACTED: Supercritical water oxidation for the destruction of toxic organic wastewaters: A review

Monitoring in the barrier wall area reveals the presence of Hydrogen Release Compound HRC injected in the spring of 2004 in two groundwater monitoring wells closest to the injection points. Problems in Supercritical Water Oxidation Process and Proposed Solutions.

## RETRACTED: Supercritical water oxidation for the destruction of toxic organic wastewaters: A review

With this approach, solutions of an organic substrate are injected into the affected aquifer to stimulate biological growth and the resultant production of reducing conditions in the target zone. Development of knowledge database pertaining to different properties of NPs will certainly assist in standardization of these techniques to find their large-scale industrial applications.

## **Separation techniques with nanomaterials**

The methane concentration in the two wells has increased since the injection of HRC-X, but has not likely reached extreme methano-genesis levels that may restrict the dechlorination process.

## **Destruction and dechlorination of hazardous organics from synthetic and actual water systems by two**

Lactate, ethanol, and hydrogen appeared to be the best substrates. Abstract Two-Phase Ozonation is a novel advanced oxidation process for the treatment of hazardous wastewater that employs a second, inert solvent phase fluorinated solvent, FC40 which contains the ozone. During the chemical process of this reductive dechlorination, the lactic acid degrades to pyruvic acid and finally to acetic acid.

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