used herein, nanotubes may include single wall nanotubes and multiple wall nanotubes of any length.

[0033] A "compressor" is a device for compressing a working gas, including gas-vapor mixtures or exhaust gases, and includes pumps, compressor turbines, reciprocating compressors, piston compressors, rotary vane or screw compressors, and devices and combinations capable of compressing a working gas. In some embodiments, a particular type of compressor, such as a compressor turbine, may be preferred. A piston compressor may be used herein to include a screw compressor, rotary vane compressor, and the like.

[0034] "Flocculation" is a process wherein colloids are brought out of suspension in the form of "floc" or "flakes" through the addition of a clarifying agent. Flocculation may result in the aggregation of small particles into larger particles. Other types of flocculation may include adding solvents configured to trap substances or particles from one phase and move them to another phase. For example, counter current flow of an organic solvent through a water solution may be useful for removing hydrophobic particles from the water solution, as described herein.

[0035] A "hydrocarbon" is an organic compound that primarily includes the elements hydrogen and carbon, although nitrogen, sulfur, oxygen, metals, or any number of other elements may be present in small amounts. As used herein, hydrocarbons generally refer to components found in natural gas, oil, or chemical processing facilities.

[0036] "Incineration" is a waste treatment process that involves the combustion of organic substances contained in waste materials. The incineration of the waste material converts the waste material into ash, flue gas, and heat.

[0037] As used herein, the term "natural gas" refers to a multi-component gas obtained from a crude oil well or from a subterranean gas-bearing formation. The composition and pressure of natural gas can vary significantly. A typical natural gas stream contains methane (CH_4) as a major component, i.e., greater than 50 mol % of