



Environmental Chemistry: Microscale Laboratory Experiments

By Ibanez, Jorge G.; Hernandez-Esparza, Margarita; Doria-Serrano, Carmen; Fregoso-Infante, Arturo; Singh, Mono Mohan

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Experiments.- Water characterization.- Dissolved oxygen in water.- Alkalinity and buffering capacity of water.- Aqueous carbonate equilibria and water corrosiveness.- The point of zero charge of oxides.- Experimental transitions in E vs. pH (or Pourbaix) diagrams.- Air oxidation of metal ions.- Photoassisted reduction of metal complexes.- Anionic detergents and o-phosphates in water.- Halogenated hydrocarbons and the ozone layer depletion.- Acid mine (or acid rock) drainage.- Electrochemical treatment of gas pollutants.- Electrochemical treatment of liquid wastes.- Electrochemical treatment of polluted soils.- Removal of nitric oxide by complex formation.- Photocatalytic remediation of pollutants.- Chemical mineralization of pollutants through the Fenton reaction.- Production and analysis of chloramines.- Production and analysis of chlorine dioxide.- Metal ion recovery by cementation.- Green chemistry: The recovery and reuse of sulfur dioxide.- Microorganisms in soil, water and air.- Toxicity assay using bacterial growth.- Wastewater disinfection.- Appendix I: Answers to selected problems from the experiments.- Appendix II: Analytically-oriented environmental chemistry experiments in the literature.

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