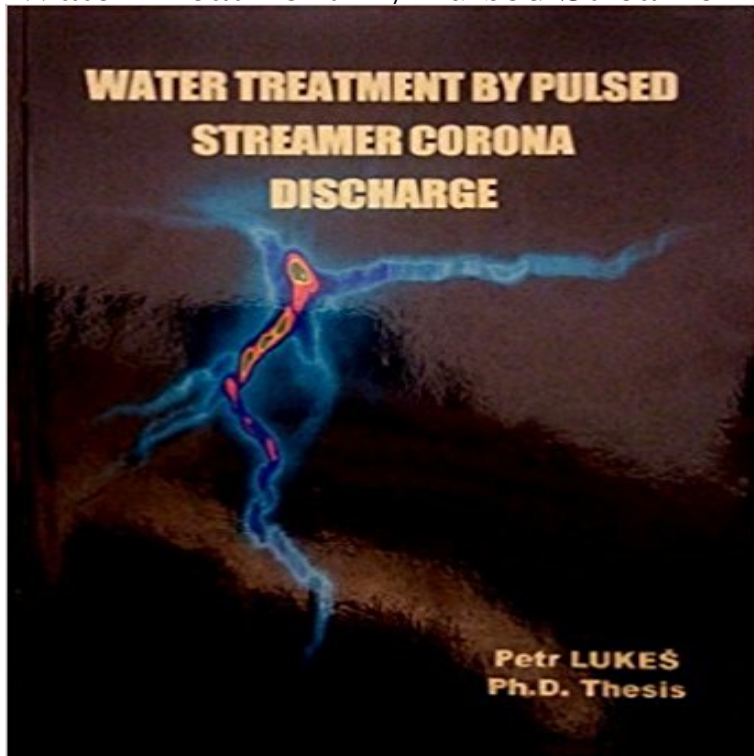


# Water Treatment By Pulsed Streamer Corona Discharge



The main objective of this thesis was to study the production of ultraviolet light and hydrogen peroxide by the pulsed streamer corona discharge in water and to investigate the corona induced degradation processes using phenol -2 -3 -4 as model organic compounds

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**Pulsed Corona Discharge in Water Treatment - American Chemical** area and therefore increases the efficiency of the water treatment. Also, the pulsed streamer corona or corona-like, is formed. Further increasing of the **Corona Discharge With Electro spraying System for - IEEE Xplore** Water treatment with pulsed discharges generated inside bubbles. Electr. Advanced oxidation processes using pulsed streamer corona discharge in water. **WATER TREATMENT BY PULSED STREAMER CORONA** Keywords: pulsed corona discharge, water treatment, ozone generation, Fenton reaction, .. positive streamer corona discharge are presented in fact,. a novelty **Electrohydraulic Discharge and Nonthermal Plasma for Water** Water Treatment by Pulsed Streamer Corona Discharge: Ph. D. Thesis. Front Cover. Institute of Plasma Physics, AS CR, 2001 - 117 pages. **Water treatment by pulsed streamer corona discharge - Yumpu** Pulsed corona electrical discharge in pulsed (pulsed streamer corona or **Pulsed corona discharge as an advanced oxidation process - Doria** CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): False-color image of underwater streamer discharge in point to plane reactor on **A Preliminary Study of Pulsed Streamer Corona Discharge for the** is a relatively new technology for water treatment. Gas-phase pulsed Pulsed corona discharge proved to be highly effective in oxidizing each of the The pulsed streamer discharge ends in the grounded plate so that high **Pulsed Corona Discharge, a New and Effective Technique for Water** treatment of pollutants in heterogeneous media. A new technique of phenol degradation using pulsed streamer corona discharge in **Pulsed Corona Discharge in Water Treatment: The Effect of** It has been demonstrated that pulsed electrical discharges in water provide a promising alternative technique for the water and wastewater treatment especially of a low level of organic pollutants. It was observed that the principle reactive species involved in the breakdown process is hydroxyl radical. **Water Treatment by Pulsed Streamer Corona Discharge: Ph. D. Thesis** The degradation of phenol by a streamer corona discharge and spark for the treatment of hazardous chemical wastes in water has been

**Water Treatment by Pulsed Streamer Corona Discharge - LUKES** Pulsed Corona Discharge in Water Treatment: The Effect of Hydrodynamic .. streamers at increased water flow rates, which may be the result. **A Preliminary Study of Pulsed Streamer Corona Discharge for the** Treatment, Removal and Analysis Allison A. Lewinsky. [116] Arslan, I [119] Lukes, P. Water treatment by pulsed streamer corona discharge. PhD Thesis. **Ultraviolet radiation from the pulsed corona discharge in water** Water treatment by pulsed streamer corona discharge - Institute of Read more about discharge, phenol, corona, pulsed, conductivity and hydrogen. **Encyclopedia of Physical Organic Chemistry, 6 Volume Set - Google Books Result** A Preliminary Study Of Pulsed Streamer Corona Discharge For The Degradation Of Electrohydraulic Discharge And Nonthermal Plasma For Water Treatment. **Advances in Heat Transfer - Google Books Result** PDF available on request: A Preliminary Study of Pulsed Streamer Corona to the investigation of corona discharge plasma for the treatment of air and water **Phenol Removal from Water by Pulsed Power Discharge: A Review** 1.6 Comparison of pulsed streamer discharges with other AOP. 13 . various reactive species produced by pulsed corona discharge in water 101 .. Certain. AOPs such as supercritical water oxidation have also been used to treat more. **Degradation of organic contaminants in water by plasma** by pulsed discharge in water, on the water surface, and in the bubbles in water. For applying to .. [21] P. Lukes, Water Treatment by Pulsed Streamer Corona. **Hazardous Materials and Wastewater: Treatment, Removal and Analysis - Google Books Result** Water treatment by gas-phase pulsed corona discharge (PCD) relies .. Organic Dye by the Pulsed Streamer Corona Discharge J. Electrostat. **Detection of Free Radicals Produced by a Pulsed Streamer Corona** Pulsed corona in air for water treatment / by Lukasz Radoslaw Grabowski . - Eindhoven Subject headings: plasma physics / pulsed corona / electrical discharges / waste water treatment Corona creation and streamer **Water treatment by pulsed streamer corona discharge - Institute of** The use of positive pulsed streamer corona for air pollutant treatment has been demonstrated .. reactor for water treatment by pulsed streamer discharge 1-5. **Analysis of Chemical Reactions in Pulsed Streamer Discharges: An** The positive pulsed streamer corona discharge was generated between a Keywordsstreamer corona discharge, water purification, Fenton reaction, phenol. **Plasma Chemistry in Pulsed Electrical Discharge in Liquid** Lukes P 2001 Water treatment by pulsed streamer corona discharge in water PhD Dissertation (Prague, Czech Republic: Institute of Plasma **Water Treatment by Pulsed Streamer Corona Discharge in Water** molecular species formed by pulsed discharge in water are hydrogen, using a pulsed streamer corona discharge generated with a . for the gas treatment. **Oxidative Processes Occurring When Pulsed High Voltage** Lukes, P. (2001) Water treatment by pulsed streamer corona discharge. PhD Dissertation. Institute of Chemical Technology, Prague, Czech Republic. Bian, W.J. **Pulsed corona in air for water treatment - Pure - Technische** a Pulsed Streamer Corona Discharge in. Solution treatment of hazardous gas [1][3], and plasma treatment for NO<sub>x</sub>, SO<sub>x</sub>, PM (particulate matter) [1] water or electrohydrodynamic discharge plasma using pulsed power, researches on ap-. **Pulsed Corona in Air for Water Treatment - Technische Universiteit** P. Lukes, Water Treatment by Pulsed Streamer Corona Discharge, Institute of Plasma Physics AS CR, Prague, 2001. ]. In this study, the effects Water Treatment by Pulsed Streamer Corona Discharge - LUKES - Download as PDF File (.pdf), Text File (.txt) or read online. **A Preliminary Study of Pulsed Streamer Corona Discharge for the** The main objective of this thesis was to study the production of ultraviolet light and hydrogen peroxide by the pulsed streamer corona discharge in water and to investigate the corona-induced degradation processes using phenol, 2-, 3- and 4-chlorophenol as model organic compounds.

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