

PHYSICOCHEMICAL PROPERTIES  
OF A PLASMA—LIQUID SYSTEM  
WITH AN ELECTRIC DISCHARGE  
IN A GAS CHANNEL WITH A LIQUID WALL

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S u m m a r y

Physicochemical properties of a plasma-liquid system with the electric discharge in the gas channel with a liquid wall have been studied. The opportunity to apply such a plasma for stimulating the destruction of an organic pollutant in water has been demonstrated. Phenol was used as a contaminator for simulating the destruction process. The optimal conditions for carrying on the destruction of organic pollutants and obtaining the low toxicity of decay products have been studied. It is revealed that the treatment with the air plasma results in both a deeper destruction of phenol and a lower toxicity of the solutions of decay products than the argon plasma does.